

# *The Top American Research Universities*

*2020 Annual Report*

*The Center for Measuring University Performance*

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**ISBN 978-0-578-96290-0**

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# *The Top American Research Universities*



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## INTRODUCTION

### The Center for Measuring Research Universities Project: 2000-2021

America's research universities set a standard for academic performance on a national and international scale. Their primary model of a high-powered academic research enterprise tightly coupled to an often-extensive undergraduate educational program and enhanced by a wide range of more or less related artistic, economic, entrepreneurial, and entertainment activities has sustained its preeminence consistently since at least the end of World War II and in many ways from earlier times. The enterprise, while academic and intellectual in content, is driven by an intense competition with each university seeking to accumulate the most significant set of research resources. The system that supports, nourishes, regulates, and sustains this competition consists of many parts, some directly related to the production of research while others support or enhance the institutions within which the research enterprise thrives. The range of institutional size is very large in terms of enrollment, ranging from a thousand to over 50,000 full-time students.

The research engine, however, is driven in the first instance by the competition for federal funding from a wide range of agencies. And it is this fundamental competition that has defined the overall research university industry. The peer review process for grants that is the hallmark of the federal awards system emphasizes a competition for the funding of individual researchers and their projects rather than a competition among institutions. When we measure the research preeminence of universities, the key element that defines that preeminence is the existence of highly productive research faculty and staff affiliated with the university. This perspective helps us understand that the research work we celebrate is the result of the effort of individual researchers supported by institutions. It is the individual researchers and their staff and colleagues who drive the competition among research universities, and what we measure is the sum of the work accomplished by these individuals.

When we highlight the research reputation of the top American research universities, we recognize the effectiveness of institutions in assembling the money, resources, and institutional infrastructure that attracts, and sustains outstanding individual research faculty and staff. Universities compete for these stellar research performers by providing substantial resources in support of people who have the talent, imagination, energy, and commitment to produce research results. What we end up measuring when we identify the top research institutions is success in capturing more people with these research talents than competitor institutions.

In detail, the operation of top research universities is complex and multidimensional, but at the base of the stellar performance of these institutions is their ability to generate money. While it is possible to have a rich university with a relatively weak research enterprise, it is not possible to have a poor university that is research competitive. Research is an expensive institutional loss leader. While the grants and contracts income of a top research university show large sums, this income only covers a portion of the cost of producing the research. As a result, top universities must accumulate money from many other sources to support the losses generated by producing a major research enterprise.

Over the years of this project, we have approached the success of top research universities from many perspectives as is indicated in the summary references in this final publication (p. 249). While American higher education is a remarkably competitive enterprise, with many institutions of widely varying characteristics, the composition of the top group of research universities has remained remarkably stable over the years. In large part, this is the result of the large financial base needed to subsidize the acquisition of talent and the support of research work. The top institutions have well-established systems to acquire the ever-increasing sum of money needed to pay for space, equipment, staff, and research talent, and while many institutions can sustain a few superior research faculty and staff, few can continuously acquire the resources to sustain significant numbers of people working at the top levels of research productivity. The money required to compete serves as an entry barrier preventing significant changes in the top group of competitive institutions. Those universities with well-developed systems to acquire funds from a wide range of sources, never cease their effort to maintain their large market share of funding that sustains their competitive advantage.

We have explored this phenomenon in the items listed below in much more detail and with a greater sense of the variations within the context of the top research universities. But over the last two decades or so, the most significant element visible from the data available is the stability of the group of top American research universities. This result does not generate headlines in a world focused on the closely watched and much anticipated challenges of rapid change, but over the years with many readjustments, initiatives, innovations, and other transformations of American higher education, the stability of the research university segment of this industry remains an exceptional phenomenon.

Measuring our impact takes many forms, and each year we have reported detailed information about our activities to our Advisory Board. In summary, however, just over 50,000 hard copies of our reports have been distributed to presidents, provosts, libraries, the media, boards of trustees, and other interested parties over two decades. Countless individuals have visited our website, downloading our reports, publications, and data files. We have corresponded with the media and hundreds of individuals each year across the US and world about our methodology and data. Presentation of our work to governing boards, governmental commissions, university associations, academic conferences, and the United Nations has kept us busy traveling to many states and twelve countries on four continents. Our data helped shape the Carnegie Classification, has been the basis of many university strategic plans, and have been used in several state funding methodologies.

The Center for Measuring University Performance has been a traveling activity, residing in various universities at different times, but sustained by a stable staff and an effective advisory board. Various institutions at different times have helped sustain our work as acknowledged in the notes below. But over the two decades or so of our work, we have suffered some significant losses. Betty Capaldi Phillips, one of the founders of this project, died in 2017, depriving us of her wisdom, deep understanding of universities and the research enterprise, and wide-ranging skills and knowledge. This past year (2020), we also lost two of our long-serving Advisory Board members, Art Cohen and Roger Kaufman, as recognized in the notes below. We cannot over emphasize the importance of their insights and contributions over the years.

We began this project with some firm guidelines. Although some observers recommended that we construct a simple numbered list of top research universities from number one on down, we have steadfastly refused to do so. While such lists are popular, they distort the complexity of these institutions. Instead, our commitment has been to provide various indicators of research university performance, based on verifiable data from standard sources. We provide the data in two forms, one in the annual report and the other in the easily accessible complete data set available to everyone online. We also made the commitment to explore various elements of research university competition in essays and research reports, some published along with the *Top American Research Universities* annual report and others published elsewhere. The temptation to identify the *Number One* research university is strong, but we have easily resisted because, as we have noted in various essays accompanying these reports, such simple ranking schemes distort our understanding of the American research university enterprise.

Over the last two decades or so we have benefited from the engagement of many people in our project. Their comments, suggestions, critiques, and contributions have consistently helped improve our work and we know that absent their help what we have accomplished here would have been much less.

Staff of the Center for Measuring University Performance

2021

## Art Cohen and Roger Kaufman

Since the earliest days of our work on measuring research universities, we have had the support, wisdom, and creativity of many talented people. Among those, Art Cohen and Roger Kaufman helped us start this project and carry it through to this concluding edition of *The Top American Research Universities*. Their recent passing quiets voices that while now silent, echo persistently in our memories.

Art Cohen (Arthur M. Cohen, 1927-2020) taught us all about the American community college and the development of American higher education. At UCLA, where he became an institution himself throughout his entire academic career, he taught an endless number of students, many going on to become leaders in higher education. He served as a colleague, mentor, and supporter of a wide range of community college leaders who turned with frequency to Art for advice and insight into the growth, development, and ever-increasing significance of community colleges. He developed resources for all of us engaged in higher education through the invention of the ERIC Clearinghouse for Community Colleges in 1966 and the continuing work of the Center for the Study of Community Colleges in 1974. Art gave us an extensive and enduring record of scholarly work in his classics, *The American Community College* (multiple editions 1982 to 2014 authored with Florence B. Brawer and in 2014 with the addition of Carrie B. Kisker), and *The Shaping of American Higher Education* (editions in 1998 and then in 2010 with the addition of Carrie B. Kisker), and the constant production of other scholarly books, articles, and presentations. All of us who knew Art, whether in recent times or throughout long periods of his distinguished career, recognized immediately a kind, effective, wise, and endlessly supportive friend and colleague.

Roger Kaufman (Roger A. Kaufman, 1932-2020) brought his commitment to planning and needs assessment to everyone interested in the performance of American universities. His exceptional breadth of professional experience, from his career in engineering through his wide range of publications and engagement in higher education to his position at Florida State University, gave him an unusually persuasive voice on institutional effectiveness. His tireless energy and commitment, his inspiring insistence that we focus on what we need rather than what we want, and his overwhelming publication list spread his insights on needs assessments to a wide international audience. Roger was indefatigable, and his considerable impact on higher education, and other institutions, produced a long list of awards, recognitions, and honors testifying to the influence of his ideas and theories. His appointment as a Distinguished Research Professor at the Sonora Institute of Technology (Mexico) serves as an indicator of his international significance. An insistent and effective advocate of mega-planning, Roger forced us all to think broadly about planning, evaluating, and addressing the needs of our academic enterprise, and within his long list of publications, his *Mega Planning: Practical Tools for Organizational Success* (2000) illustrates his influential perspective. For us, however, Roger was a great and constant friend, a prolific contributor to our discussions and activities, and an inspirational collaborator.

Staff of the Center for Measuring University Performance

# Competing with the Best: America's Top Research Universities 2000-2020

John V. Lombardi, Diane D. Craig, Craig W. Abbey, and Lynne N. Collis

## INTRODUCTION

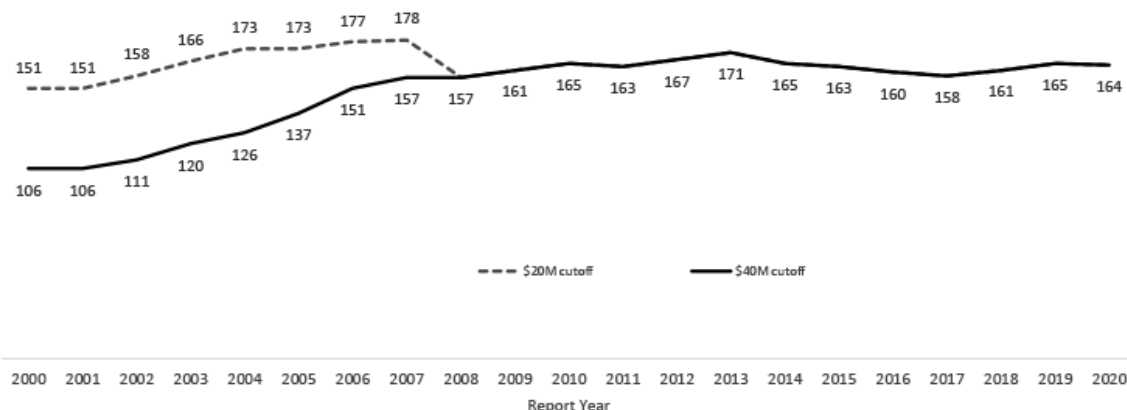
Over the past two decades, we have explored a wide range of issues that reflect the complex and intense competition among America's research universities as they seek to capture the most effective participants in the academic research enterprise. We started with the notion of university improvement, the effort by most colleges and universities to make their programs better and more effective and to enhance the quality of the work they do. This led, inevitably to the recognition that the pursuit of improvement among the top research universities is primarily an intense competition for ever larger shares of the scarce talent and critical resources that sustain research performance.<sup>1</sup>

Our Top American Research Universities project (TARU) has always focused on those institutions with high levels of annual federal research expenditures, starting with a cut-off point of \$20 million and above in our 2000 inaugural report and adjusting to a \$40 million and above cut-off in the 2008 report. For this retrospective 21-year analysis, we focus on the institutions that met the higher \$40M cutoff in each year since the first report. Over this period the number of institutions above the \$40M marker numbered 106 in 2000 and rose to 164 in this, our final report (Figure 1). During some of these years, a few universities fell out of the over \$40M group, but over the 21 years 186 institutions reached the cutoff at least once. More than one-half (54%) were in the over \$40 group every year and about three-fourths (73%) of these 186 institutions met or exceeded the \$40M cutoff in at least 16 out of the 21 years. The institutions that can sustain over \$40 million of annual research expenditures, are all excellent universities with good faculty and staff, strong students, extensive extracurricular and support programs, and fine facilities. The intense focus on improvement is not only designed to burnish already fine operations but especially to focus on improving or maintaining a high position in the competition for research recognition and support.<sup>2</sup>

1 For an example of an institutional focus on performance that served as a basis for the eventual work of the Measuring University Performance Center see John V. Lombardi and Elizabeth D. Capaldi Phillips, *A Decade of Performance at the University of Florida (1990-1999)*, University of Florida, 1999. [<http://jvllone.com/10yrPerformance.html>]. Note that Elizabeth D. Capaldi became Elizabeth D. Capaldi Phillips during the years of her work with the MUP center. We cite her as Capaldi Phillips here.

2 In many of our analyses over the years, we excluded standalone medical schools and specialized academic institutions because their focus and organizational structure can differ greatly from the other more comprehensive universities in our top research group. For this review we have included them to get a more complete picture of how the over \$40M academic institutions performed over the past two decades. These specialized academic institutions make up 16-19% of the over \$40M institutions each year. As we have documented in the past, as a group, standalone medical and specialized institutions have fewer resources than other full spectrum academic universities in the over \$40M group. The number of standalone and specialized institutions increased in the early years of our project from 17 in 2000 to 28 today, peaking at 33 in 2013. For a discussion of some of these issues see "Lombardi, Capaldi Phillips, Denise S. Mirka, Craig W. Abbey. "Deconstructing University Rankings: Medicine and Engineering, and Single Campus Research Competitiveness," *TARU Corrected*, 2005. [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-Publication-2005-Deconstructing-University-Rankings-Medicine-and-Engineering-and-Single-Campus-Research-Competitiveness.pdf>] **For a list of the 186 institutions included in this edition, including the standalone medical and specialized institutions, see the Appendix on page 22.**

**Figure 1. Number of Institutions included in The Top American Research Universities**



This competition for institutional preeminence takes place in many venues, the federal research grants competition for science and engineering support, the search for non-science and engineering funding from the federal government, the endless pursuit of foundation and private funds to support programs, the constant effort to maintain or increase state funding for public universities, the carefully curated admissions process that seeks the best students with multiple desirable credentials and characteristics, and the endlessly promoted high profile athletic competitions.<sup>3</sup> Although this complex system sustains much of America's international research preeminence, the data that could illustrate the operation of this competition is difficult to acquire in formats that allow institutional comparison. There is data, to be sure, but often collected by different agencies, provided by institutions using different formats and definitions that often change over time, and frequently not audited for accuracy.

**Federal Research Expenditures:** To capture a clear sense of the competition we, and most other observers, rely heavily on federal research data because this information is usually collected and reported in reasonably consistent and accurate ways. Best of all for our purposes, are the data on individual institution federal research expenditures. The value of this indicator is enhanced by various related characteristics.<sup>4</sup>

- First, it reflects the actual research work accomplished with federal financial support on an annual basis. It is not a projection of work that might be accomplished, and because it reports on payment for work done, tends to be scrutinized carefully, reducing the opportunity for institutional inflation of expected results.

3 Given the exceptionally high profile of intercollegiate athletics and the importance of this activity in building institutional brands, the MUP center staff developed an extensive review of college sports programs with particular emphasis on the relationship to research universities. See Lombardi, Capaldi Phillips, Kristy R. Reeves, Craig, Gater, Dominic Rivers. "The Sports Imperative in America's Research Universities," *TARU*, 2003. [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-Publication-2003-The-Sports-Imperative-in-Americas-Research-Universities.pdf>] See also the essays in *Inside HigherEd* listed in the references to this paper by Lombardi: "The Enemy Is Us: Cost Reduction in College Sports," January 31, 2005 [[http://jvlone.com/InsideHE\\_Energy013105.pdf](http://jvlone.com/InsideHE_Energy013105.pdf)]; "Too Much Money? Sports and the Budget," November 11, 2005 [[http://jvlone.com/InsideHE\\_SportsSubsidy101105.pdf](http://jvlone.com/InsideHE_SportsSubsidy101105.pdf)]; "Taxing the Sports Factory," September 26, 2007 [[http://jvlone.com/reality\\_check\\_Blog100107.pdf](http://jvlone.com/reality_check_Blog100107.pdf)]; "The Amateur Challenge of College Sports," August 10, 2008 [[http://jvlone.com/reality\\_check\\_Blog081008.pdf](http://jvlone.com/reality_check_Blog081008.pdf)]; "College Sports and Our Winter of Discontent," September 21, 2011 [[http://jvlone.com/reality\\_check\\_Blog092311.pdf](http://jvlone.com/reality_check_Blog092311.pdf)]; "Universities Should Admit that Athletes Aren't Amateurs," October 31, 2014 [<http://jvlone.com/MythAmateurism2014.pdf>].

4 Federal research (and total research) expenditures are reflected in data from the NSF Higher Education Research and Development (HERD) (FYs 2010-2018) [<https://www.nsf.gov/statistics/srvyherd/>] and the NSF Academic Research and Development Expenditures surveys (FY 1998-2009) [<https://www.nsf.gov/statistics/srvyrdexpenditures/>] and adjusted in a few cases to represent expenditures at a single campus. These adjustments were much more common in the early years of our project when some public university systems only reported system totals, not individual institutional results. Today most campuses report individually and very few institutions' data need to be broken apart. The market for Federal research expenditures, from which the market share is calculated, is the total dollars reported by all academic and research institutions to these two NSF surveys. For more details about which campuses have adjusted data, see the Data Notes section in each year's publication.

- Second, it is a stable, annual indicator as contrasted with the similar number that reports on federal research awards. Award data, while also quality indicators, has the defect of chronological confusion. Some awards are for one year, some for two, and some for five or more. The total of awards does not reflect research work accomplished but research work anticipated.

Since the goal is to measure research performance, the annual expenditure data is of greater utility and lies at the core of our work over the past years.

As noted earlier, we use federal research expenditures to define the competitive universe of research universities by setting a marker at \$40M per year. While the institutions at the lower bound of this cutoff do not have the research presence of say the top 10 public or top 10 private universities, they nonetheless help define the competitive context. All participants, however defined, seek to capture ever larger shares of the strategic resources that mark them as winners, and institutional improvement is seen as exceeding the share captured by the institution above on the list. A review of the top universities on federal research expenditures compiled each year always shows some universities moving up a position or two, an occurrence that results in significant institutional celebration, but of course often the institution that moved up in rank on the list, did not necessarily get any better. The one above it in a previous year may well have done worse.<sup>5</sup>

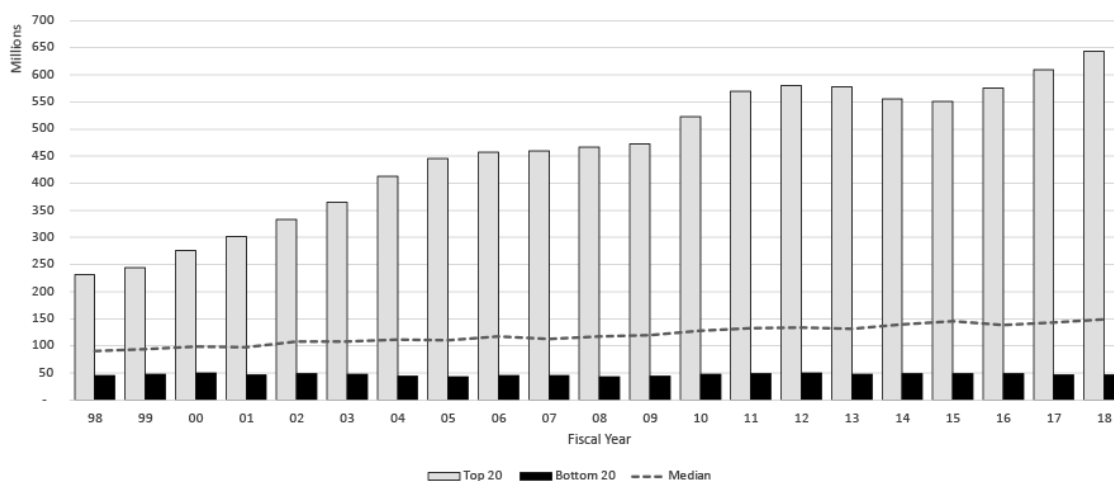
Each annual competition denominated in federal research expenditures reflects institutional efforts to capture a share of the market defined as the total amount reported by all universities that spend any federal research dollars. As a result, for example, an improvement in an individual university's market share of 5% over the previous year is only an improvement in the competition if it exceeds the total growth in the market of research expenditures of the other institutions in its group. If the market grows by 8%, an increased market share of 5%, is a competitive loss, for some other university will have captured the additional 3%.

An important characteristic of this competition is the scale of effort required. If we look at the median expenditure of the top twenty universities in the most recent year we see a number on the order \$644M (Figure 2). If we look at the median expenditure of the last twenty institutions in the over \$40M group, we see a number on the order of \$47M. The institutions in the top group are 14 times more successful than those in the bottom group. This gap between the median market shares of the top and bottom 20 in 2018 is the largest we have found in the past 21 years and has widened considerably since 1998 when the top group had about five times the median expenditure of the bottom group. As noted in Figure 2, the median for all institutions that met the \$40M minimum each year grew about \$59 million over the 21-year span compared to \$412 million median growth for the top 20 institutions. While we can parse the numbers and institutional characteristics in many ways (as we have done in the periodic essays that have accompanied these reports over the years), this fundamental difference in scale is a primary characteristic of academic research competition.

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<sup>5</sup> See the examples in Craig and Lombardi. "Moving Up: The Marketplace for Federal Research in America," TARU, 2011 [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-Publication-2011-Moving-Up-The-Marketplace-for-Federal-Research-in-America.pdf>]

**Figure 2. Median Annual Federal Research Expenditures: 1998-2018**



The resources required to successfully compete at the \$644M level are far beyond the capacity of universities at the \$47M level. This says nothing about the quality of the individual projects sponsored by institutions at any level in the competition. A university with a \$47M federal research expenditure will have individual faculty members whose projects win grants in competition with faculty from universities with \$644M in research funding. But in the aggregate, the \$644M institution will have many more competitive quality participants working in their research programs and submitting successful grants for funding. It is, then, the accumulation of research assets by individual institutions that sustains their high position within this competition.

These assets include many things, but primarily focus on supporting the work of faculty, staff, and students on research projects that can attract external funding. The assets vary depending on the types and characteristics of projects, whether nuclear power or DNA analysis, but all of them float on a sea of revenue. Money is the essential element required for high powered, successful academic research enterprises. Money does not create the enterprise nor does it ensure its competitive success. A rich university is not necessarily a competitive research institution (although it might be an outstanding undergraduate college) but a poor institution cannot be a major research university.

These considerations help explain the exceptionally intense revenue seeking behavior of research universities. The money that makes a \$644M annual federal research expenditure possible each year comes from every imaginable institutional source: state appropriations, endowment earnings, annual giving, tuition and fees, services and entertainment, patents and licenses, housing and transportation, foundations and corporate contracts, funds captured from medical services and hospital contracts, and others.

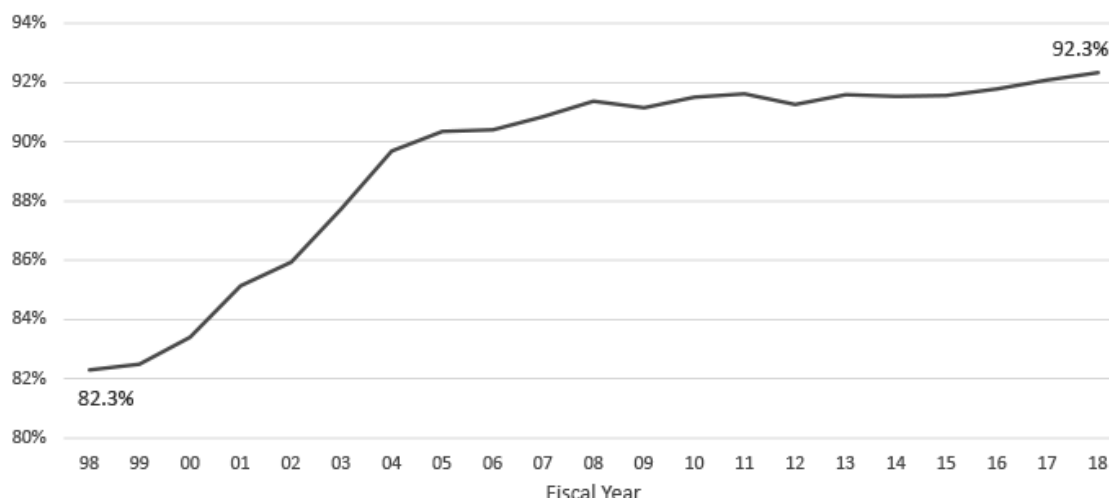
Research is an institutional loss leader, even though the large amounts of federal money spent by universities on research seem impressive. The federal government in almost all cases, however, does not pay for the full cost of the research the university accomplishes under the aegis of a grant. Instead, it pays some of the direct cost of the work, a portion of the indirect cost of heat, light, power, depreciation, and other general expenses, and only a small portion of the lost revenue from instruction as faculty divert their time from teaching to research. Revenue sources other than the grant funds make up this difference, and the amount of surplus revenue universities generate from the other sources limits the amount of federal research expenditure they can sustain.<sup>6</sup>

6 An excellent summary of the indirect cost issues is in Jane Radecki. "University Budget Models and Indirect Costs: A Primer." Ithaca S+R, 2021 [https://doi.org/10.18665/sr.314858].

The key elements of successful research competition are almost always the result of individual faculty, staff, and student inspiration, effort, expertise, and work. Few of these individuals work for free, and almost all expect to be compensated at competitive levels with other high performing personnel at equivalent institutions. Perhaps even more importantly, the most sought-after people believe themselves to be the best, and they believe that if provided with adequate support, they can perform at stellar levels. As a result, for a competitive research university to sustain the personnel needed for competitive success it must provide the finest, deepest, most extensive (and expensive) research support people, facilities, and services possible. Since superior research talent is relatively rare, the most competitive people will choose to work where they can perform on a platform of the highest quality and with the deepest support. For this reason, many recruited high performing research personnel, while receiving generous salary support, require in addition an investment in equipment, related support personnel, graduate student stipends, and additional allied faculty all requiring money that far exceeds the cost of paying a competitive faculty salary. Research productive faculty congregate in institutional settings that provide this kind of expensive support.<sup>7</sup>

Given this context, it should come as no surprise that institutions with the necessary resources to sustain this level of activity will have developed the tools needed to continue generating these resources and consequently will remain at the top of the academic research marketplace, able to fend off significant challenges from the projects proposed by competitor institutions' people.<sup>8</sup> We can see the result of this process if we look at the sustained success of the top institutions over time. We have two decades of data to observe, and we can easily see that the group of top universities, the institutions with over \$40M of federal research expenditures, rapidly expanded their market share in the early years as their investment and their numbers grew, to capture about 92% of federal research expenses over the past decade (Figure 3).

**Figure 3. Federal Research Market Share of Over \$40M Group: 1998-2018**



7 A useful summary of the university budget issues associated with top performing research universities see Jane Radecki and Roger C. Schonfeld, "Academic Research Budgets: A Look Ahead with Special Emphasis on Research Enablement and Support," Ithaka S+R, 2021 [<https://doi.org/10.18665/sr.314860>]. For an interesting perspective on the role of tenure and aculty selection in creating American research universities as world competitive institutions see W. Bentley MacLeod and Miguel Urquiola, "Why Does the U.S. Have the Best Research Universities? Incentives, Resources, and Virtuous Circles," NBER, Working Paper 28279 (December 2020).

8 For a discussion of the resource commitments required to sustain top level academic research performance see Capaldi Phillips, Lombardi, Abbey, Craig, "Research University Competition and Financial Challenges," TARU, 2009 [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-Publication-2009-Research-University-Competition-and-Financial-Challenges.pdf>]. For a discussion of the university structures that combine to produce what we have called a quality engine supporting academic research success see Lombardi, Craig, Capaldi Phillips, Gater, Mendonça, "Quality Engines: The Competitive Context for Research Universities," TARU, 2001 [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-Publication-2001-Quality-Engines-The-Competitive-Context-for-Research-Universities.pdf>]

This dominance by the top performers is even clearer when we look more closely at the top institutions in the over \$40M group. Twenty institutions have occupied a position within the top 25 national ranking on federal research expenditures for the entire period we have been tracking these data, and 40 institutions have consistently ranked in the top 50 every year. As we go down the stack from the most successful at the top, we find that there is more evidence of the potential for an institution to improve its position in the competition. However, this result is primarily a consequence of the smaller effort needed to move up in the hierarchy.<sup>9</sup>

To illustrate this circumstance, we can observe that in 2018 a move to the middle of the top 10 institutions from the middle of the second 10 would require an improvement of \$125.3M. But to move from the middle of the bottom ten to the middle of the second ten from the bottom, an improvement of only \$9.2M would be needed. While the percent increase needed to move is in the 20% range for both the top and bottom categories, the dollar amounts required for such improvement are significantly different. An increase of research success in the federal competition resulting in a \$125.3M improvement would represent a much greater expenditure of institutional funds and a much larger number of research capable faculty/staff, and students than an increase of \$9.2M. For this reason, there is much more movement among the institutions near the bottom of the stack than near the top.<sup>10</sup>

From this discussion it might appear that the critical issue for research universities is to mark their spot in the hierarchy of research expenditures and celebrate small movements up and avoid discussing small movements down. This misses the point. Research competition is relevant to the institution's place in a large group of similar institutions. It is belonging to a particular group of institutions with similar characteristics that matters, not whether a university is first or last in the group. Within similar groups of research universities, there are large variations in institutional context, style, characteristics, and purpose. While state or private universities might share very similar research expenditures, their programs, student bodies, faculty teaching expertise, and other characteristics would be much different. A rural university and an urban institution, each with similar research capabilities and results, would almost certainly be much different in many aspects of academic and institutional life.

This is why the inaugural essay in our publication series carried the title "The Myth of Number One." There is no number one. There are many research equivalent institutions with many different characteristics. The study of research success and competition permits a useful effort to group institutions into relatively similar categories to facilitate a clearer understanding of the elements that drive research competition.

However, such an effort must contend with some unavoidable difficulties. Everyone wants to be number one, or at least in the top ten or somewhere in a precise measurable place. Many commercial enterprises are eager to fulfill this desire with an endless variety of ranking schemes. The notion that any scheme, however cleverly devised, can capture the "best" institution in some single number ONE is easily dismissed, simply by looking at the multiple rankings that redistribute institutions based on the weighting of various characteristics.

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9 The persistence of institutions at the top level over time reflects their ability to generate more money to spend on institutional priorities than their competitors. This characteristic of the marketplace is illustrated in Lombardi and Craig, "Staying at the Top: An Essay on the Comparative Advantage of America's Top Research Universities" in *TARU*, 2019 [[https://mup.umass.edu/sites/default/files/mup\\_2018\\_comparative\\_advantage.pdf](https://mup.umass.edu/sites/default/files/mup_2018_comparative_advantage.pdf)]

10 We have approached this topic in various ways in our annual reports. See for example the section on "The Purpose of The Top Universities" in our first report, *TARU*, 2000 [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-Publication-2000-The-Myth-of-Number-One-Indicators-of-Research-University-Performance.pdf>]. In addition, we have constantly engaged the issue of change over time, obviously a key element in the competition for research support. See for examples the sections titled "Change in Competitive Performance on Federal Research," in *TARU*, 2001 [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-2001-Top-American-Research-Universities-Annual-Report.pdf>]; "Change Over Time," in *TARU*, 2004 [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-2004-Top-American-Research-Universities-Annual-Report.pdf>]; and "Moving Up: The Marketplace for Federal Research in America," in *TARU*, 2011].

To take a hypothetical example from another context, if we measure an individual's height, weight, hair color, and speed in the 100-meter dash, and then combine these data into a single number with a different weighting for each element, we can get a ranking of individuals, but we can also reorder the weighting by small amounts and get a different ranking. Number one might well become number 10. This is because the combination of these elements, while of interest perhaps for some purposes, is not of interest for others, so the combination produces less value than a display of the actual data allowing observers to see what is of interest to them. If we are interested in athletic ability we may not care much about hair color, but we may care a lot about height, weight, and speed. We've written about the ranking process in previous reports for those with an abiding interest in the topic.<sup>11</sup>

A more useful discussion involves an examination of other aspects of research university performance reflected in different institutional elements. In addition to the core classification by federal research expenditures, we have consistently tracked eight other indicators that provide a more nuanced reflection of the characteristics of these top research performers.

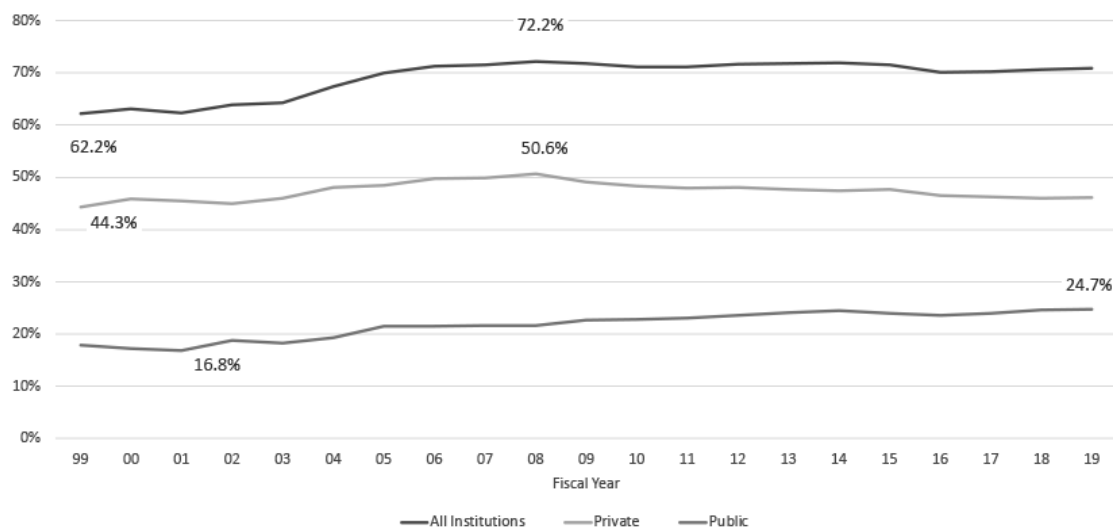
**Endowment Assets and Annual Giving:** These two measures deal with a glimpse into the financial resources of research universities by tracking endowment assets and annual giving. The data for these indicators are reasonably robust, and while they are by no means complete indicators of the total wealth of institutions, the top research performers all have very substantial endowments and annual giving totals. If we look at the change in these two indicators over time, we can see the increased attention public universities now pay to the various elements of fundraising, resulting in substantial growth in public university endowments and annual giving.

As shown in Figure 4, the market share of endowment assets for the over \$40M group over the past two decades ranges from a low in 1999 of 62.2% to a high in 2009 of 72.2%. Public institutions have steadily increased their market share since 2010, while their private counterparts have steadily declined over this same time period. As a result, in 2019, the market share gap between private (46.1%) and public (24.7%) is the smallest we've seen since we began tracking these data. Even so, their private counterparts, having depended for so long on private giving and endowments as they have had little access to state higher education funding, almost always have larger amounts in these categories. Note that their market share is roughly twice the share of publics but the number of public institutions is more than double the number of private institutions. As public universities discovered the limits on tuition/fee revenue and struggled with the variability of public state subsidies, their commitment to seeking private donations and developing large endowments became ever more significant.<sup>12</sup>

11 See the initial presentation of this issue in "The Myth of Number One," in *TARU*, 2000 [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-Publication-2000-The-Myth-of-Number-One-Indicators-of-Research-University-Performance.pdf>]; followed by "Rankings, Competition, and the Evolving American University," in *TARU*, 2007 [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-Publication-2007-Rankings-Competition-and-the-Evolving-American-University.pdf>]; "Competition and Restructuring the American Research University," in *TARU*, 2008 [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-2008-Top-American-Research-Universities-Annual-Report.pdf>]; "In Pursuit of Number ONE," in *TARU*, 2010 [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-Publication-2010-In-Pursuit-of-Number-One.pdf>]. As the result of an international collaborative effort, we looked closely at alternative methods of benchmarking university performance, focused particularly on publication rates in "Measuring Research Performance: National and International Perspectives," in *TARU*, 2012 [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-Publication-2012-Measuring-Research-Performance-National-and-International-Perspectives.pdf>]. Unfortunately, this international project was not sustained. Given the high interest in rankings, we attempted to illustrate the arbitrary result of rankings that consolidate different measures into a single ranking number in "The Best American Research Universities Rankings: Four Perspectives," in *TARU*, 2013 [<https://mup.umass.edu/sites/default/files/mup-pdf/MUP-Publication-2013-Best-American-Research-Universities-Four-Perspectives.pdf>].

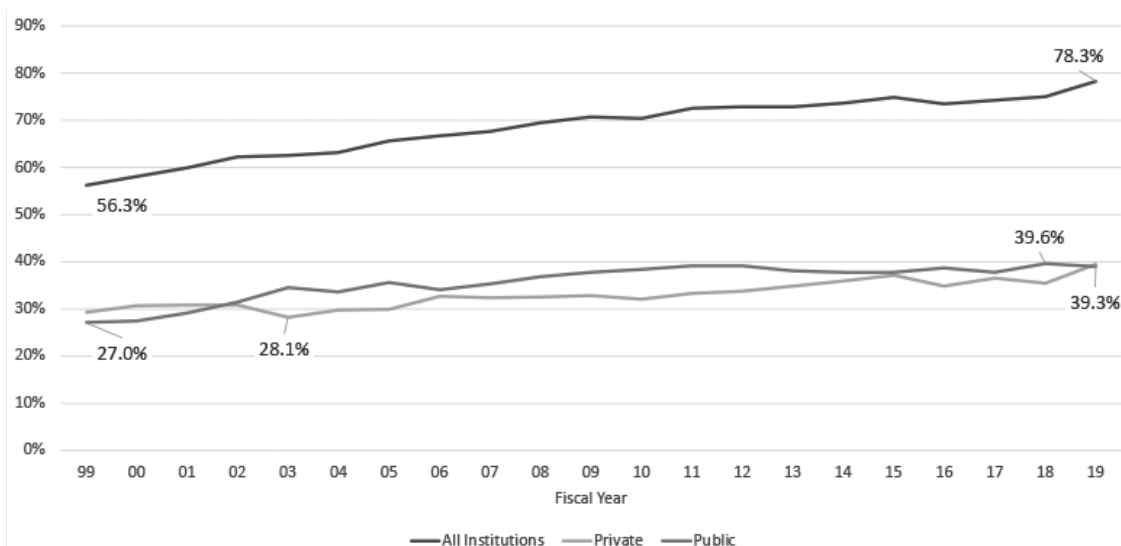
12 The endowment market is the total endowment reported for all academic institutions reporting to the NACUBO Endowment Study [<https://www.nacubo.org/Research/2020/NACUBO-TIAA-Study-of-Endowments>] and the CASE Voluntary Support of Education (VSE) survey [<https://www.case.org/resources/voluntary-support-education-survey>], with some adjustments made to break out systems into separate campuses using IPEDS data or other institutional sources such as annual financial reports. IPEDS data may also be used as a substitute (or to estimate a substitute) for any institution in the over \$40 million group in a given year that did not report to the NACUBO or VSE surveys. Unlike the NSF research expenditures data, the true market value of all endowment assets (and annual giving as well) of all U.S. academic institutions is unknown because not all institutions report these data nor do all institutions report data every year. Institutions that do not report data, typically 4-5 each year, are excluded from the median trend analyses for all private giving (Figures 6-7).

**Figure 4. Endowment Market Share among Over \$40M Group: 1999-2019**



As a group, the over \$40M institutions have been very successful in attracting private funding since 1999 (Figure 5), steadily increasing their market share from 56.3% to a record high 78.3% in 2019. Compared to endowment assets, the market share of annual giving to private and public institutions is more equally distributed between the two, although again, we see greater improvement among public institutions.<sup>13</sup>

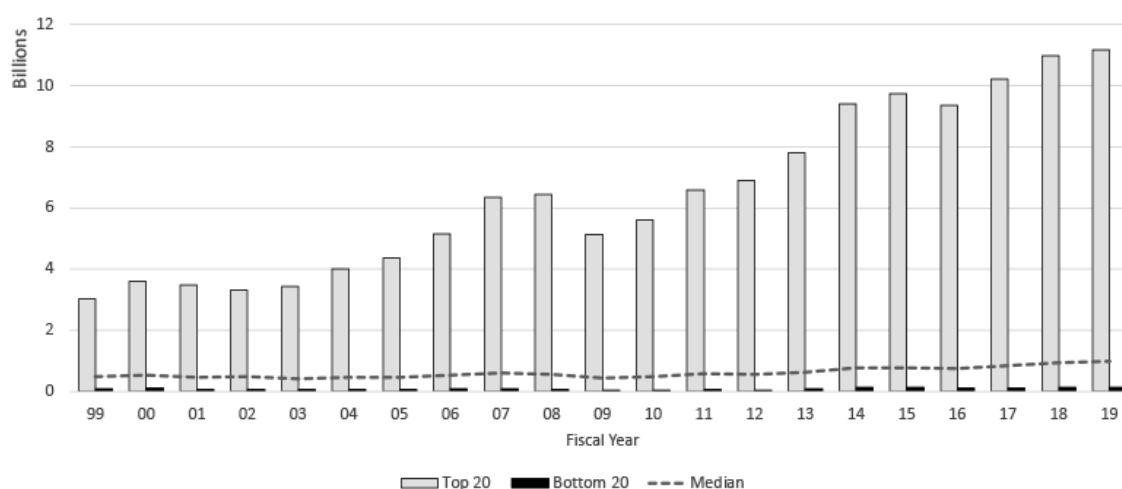
**Figure 5. Annual Giving Market Share among Over \$40M Group: 1999-2019**



<sup>13</sup> The annual giving market represents the total annual giving report for all academic institutions reporting to the CASE Voluntary Support of Education survey mentioned above, with some adjustments made to break out systems into separate campuses using IPEDS data or other institutional sources such as annual financial reports. The National Center for Education Statistics (NCES) IPEDS Finance data may also be used as a substitute (or to estimate a substitute) for any institution in the over \$40 million group each year that did not report to the VSE survey [<https://nces.ed.gov/ipeds/use-the-data/survey-components/2/finance>].

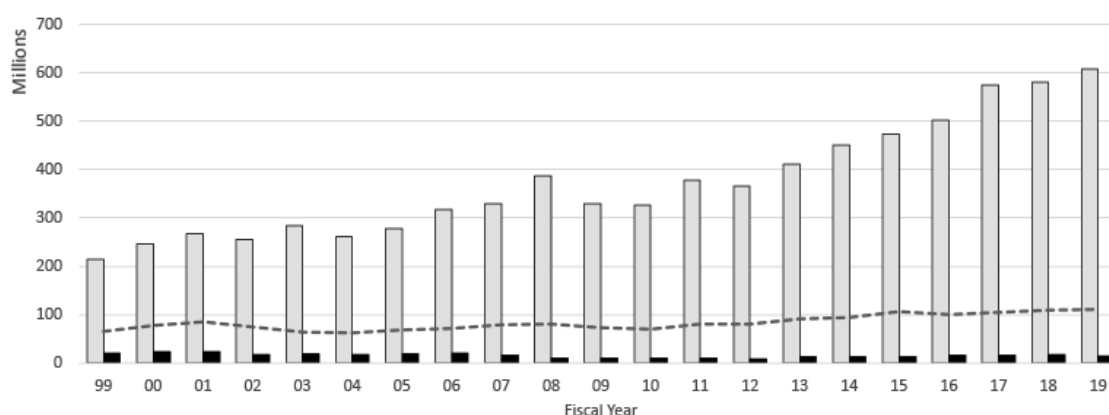
The disparity between the top 20 and the bottom 20 is particularly acute for our two private giving measures, with the gap widening greatly in the most recent six years. For endowment assets, the median for the top 20 institutions on this measure in 2019 was about \$11B compared to \$139M for the bottom 20, or 80 times as large (Figure 6). In 1999, the top group (median of \$3B) was about 29 times as large as the bottom group (\$103M). The median endowment for all institutions in the over \$40M group has doubled between 1999 (\$496M) and 2019 (\$997M), and its placement not too far from the bottom group further demonstrates the dominance of the very top group.

**Figure 6. Median Endowment Assets among Over \$40M Group: 1999-2019**



Annual giving shows similar although less dramatic differences (Figure 7). In 2019, the top 20 institutions on annual giving had a median value (\$609M) 41 times as big as the median for the bottom 20 institutions (\$15M), compared to just 11 times as big in 1999. Similar to endowment, the median annual giving has nearly doubled between 1999 and 2019.

**Figure 7. Median Annual Giving among Over \$40M Group: 1999-2019**

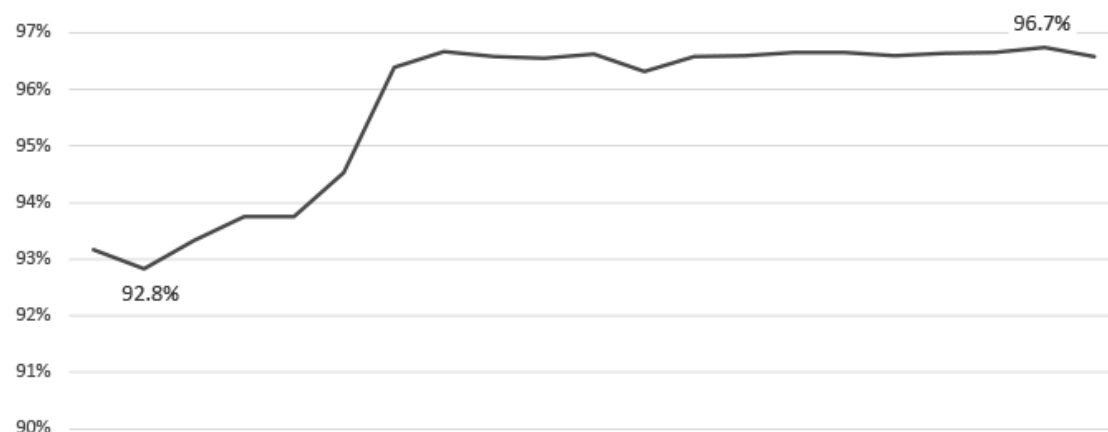


**Faculty Quality:** As we have emphasized in these reports, high quality faculty are key to continued and sustained research success. Although any assessment of general faculty quality is sure to be incomplete and inadequate in many ways, we have followed some indicators that offer a perspective on the research university's search for the most accomplished people who can drive the institution's research competition. Memberships in the national academies of science, medicine, and engineering offer one view of success in recruiting faculty with highly visible national research reputations. Similarly, many national faculty awards recognize preeminent faculty research accomplishments. Less robust than the federal research expenditures as indicators, these reference points nonetheless offer a related perspective on the concentration of nationally recognized research faculty. As we might expect, many universities of modest research achievement,

nonetheless successfully recruit and retain some faculty who have been recognized for their scholarly achievements. These awards and recognitions have a broad reach, identifying excellence and achievement not only in science, medicine, and engineering but in many other fields.<sup>14</sup>

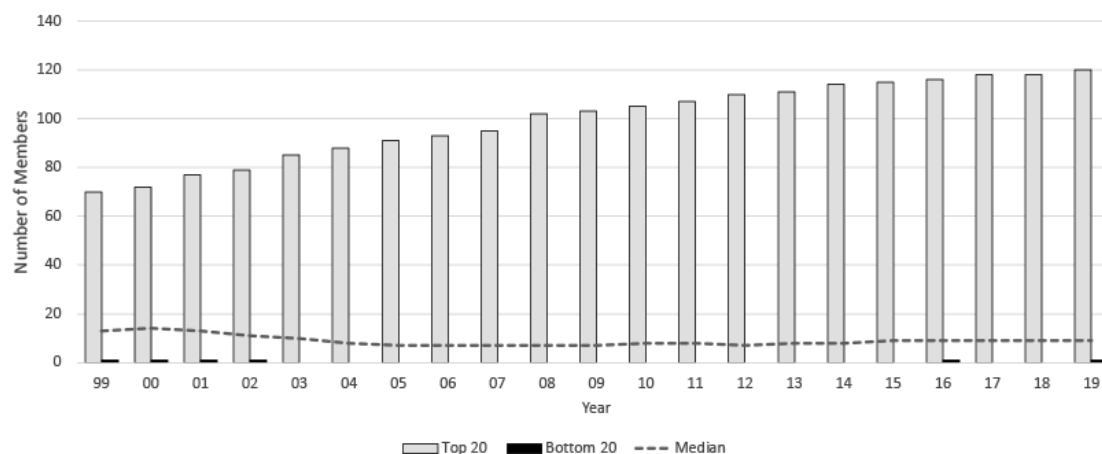
As shown in Figure 8, the top research group dominates the market for National Academy members. Nearly 97% of members are affiliated with an institution that met the \$40M federal research cutoff. However, this masks the fact that far fewer institutions play in this market. The median number of members for the top 20 on National Academy membership ranges from 70 in 1999 to 120 in 2019, whereas the bottom 20 median is most often zero (Figure 9). Moreover, the median for all of the over \$40M group has dropped over the past two decades, from a high of 14 in 2000 to nine in the past five years, while the top group has steadily increased.

**Figure 8. National Academy Members Market Share among \$40M Group: 1999-2019**



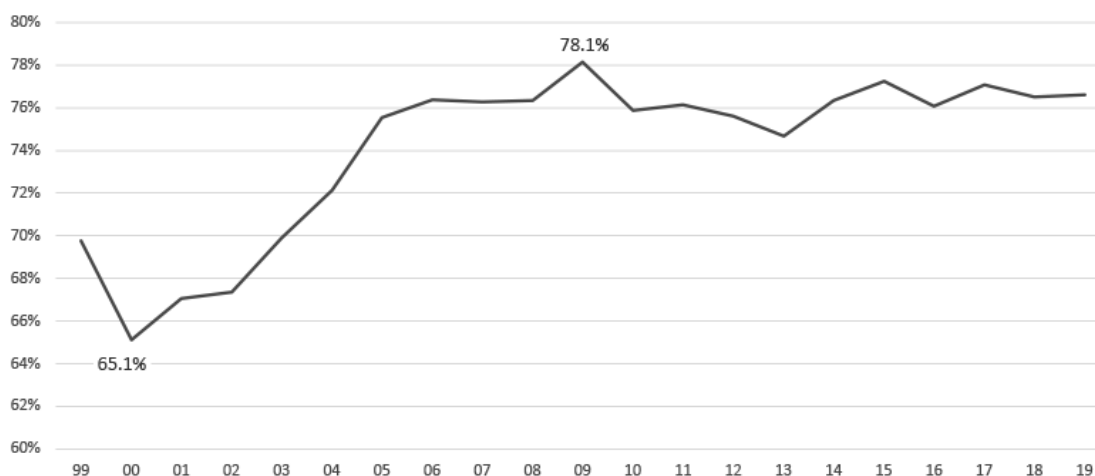
**Figure 9. Median National Academy Membership among Over \$40M Group: 1999-2019**

Faculty awards are less concentrated among the over \$40M group than are national academy members. The market share ranges from a low of 65% in 2000 to a high of 78% in 2009, and averaging about 76% in more recent years (Figure 10).



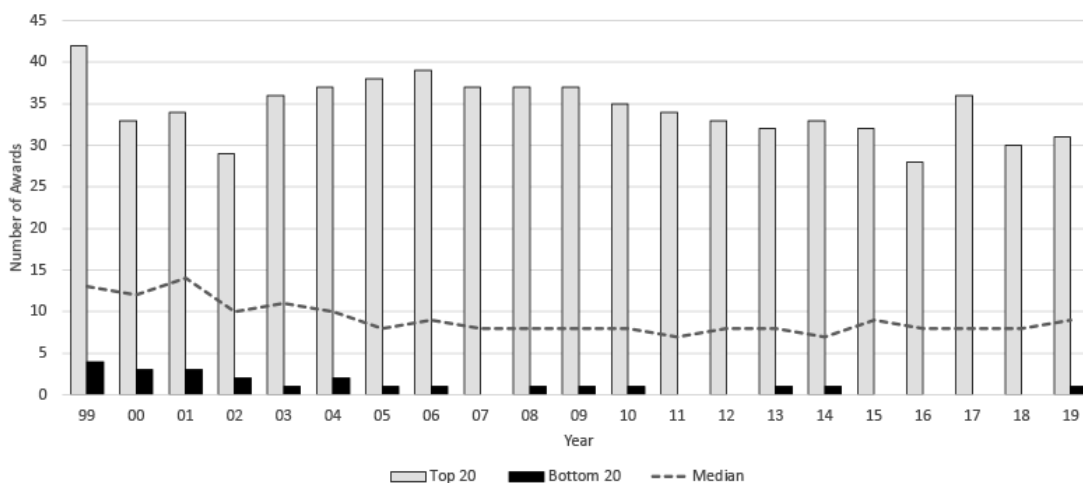
<sup>14</sup> The market for National Academy members come from MUP center staff mining the directories of the National Academy of Sciences, National Academy of Engineering, and National Academy of Medicine (formerly Institute of Medicine) each year. Links to the individual academies are at *National Academies* [<https://www.nationalacademies.org/>]. We credit institutions with any new members who were inducted that year, who moved to their institution from another institution (and at the institution at least six months, or prior to July 1), or who moved to their institution from industry or some other non-academic organization. We deduct from the institution's membership any members who moved to a new institution (prior to July 1), who moved to a company or organization (prior to July 1), who went inactive in the directory (i.e., changed their institution to blank), or who died in the previous year. Adjunct and visiting professors are excluded from our membership totals. In a very few cases, an academy member may be tenured and active (i.e., not on leave or sabbatical) at two institutions and each institution is credited with that member.

**Figure 10. Faculty Awards Market Share among Over \$40M Group: 1999-2019**



Faculty awards data collection from nearly two dozen sources has changed some over the years. Two awards are no longer given out to faculty in academic institutions, and three other awards are less frequently provided and so are not included every year. As a result, some of the change in medians shown in Figure 11 reflect these inconsistencies. Over the past two decades, like the other measures discussed so far, the top 20 institutions on faculty awards perform far better than the bottom 20, especially more recently. While the top group's median generally runs between 30-35 each year over the past decade, and the entire over \$40M group ranges consistently around 7-9 faculty awards, the bottom group has a median of 1 or less.<sup>15</sup>

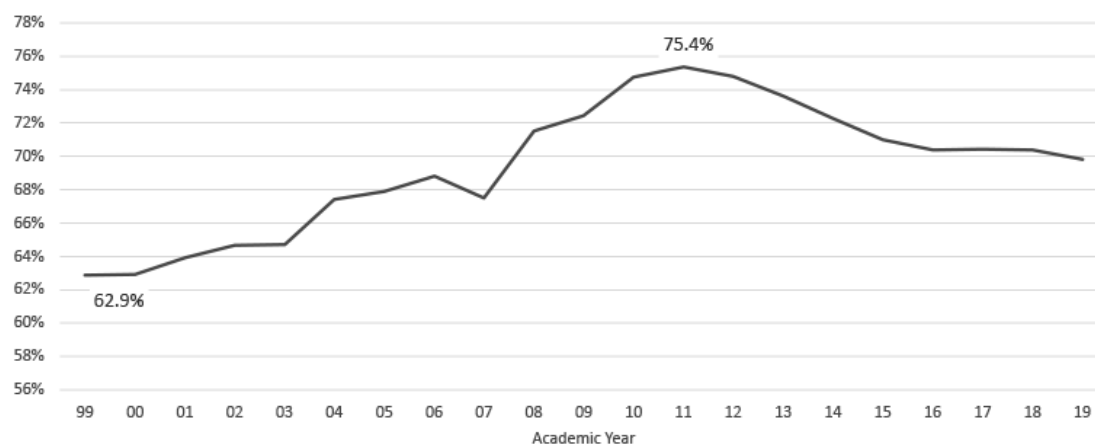
**Figure 11. Median Faculty Awards among Over \$40M Group: 1999-2019**



<sup>15</sup> The market for faculty awards is based on tallying the number of awards per academic institution for up to 24 award programs. For faculty awardees whose institution is unclear (for example, they identify with a state system), we use information from the institution or faculty member available on the internet to assign them to a particular campus. Data are available on the organization's website or via data download (for example, NIH-R37: Method To Extend Research in Time (MERIT) Awards, or NSF: Faculty Early Career Development Program (CAREER) awards). For details on which awards are counted in a given year, refer to the Data Sources section in each year's TARU publication.

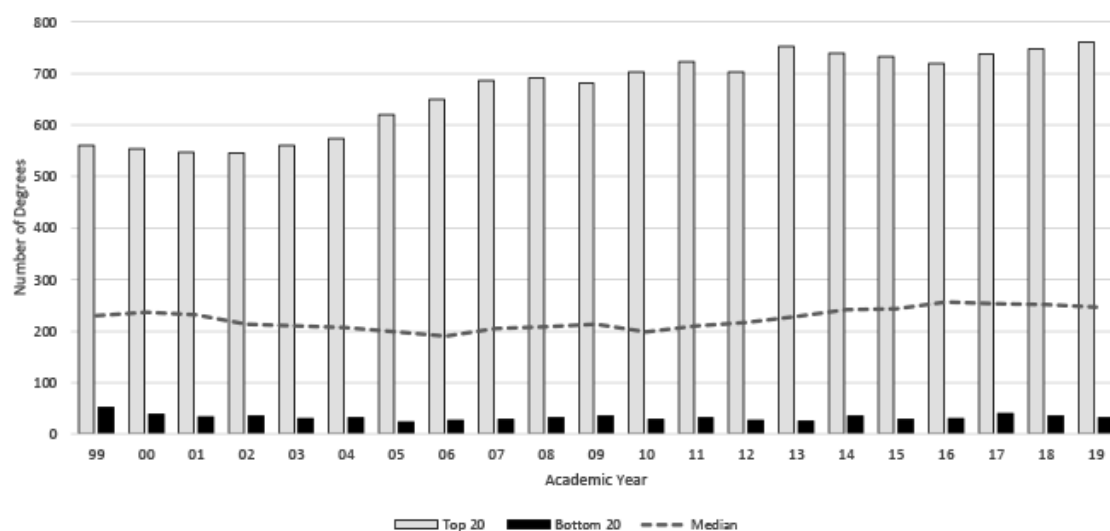
**Doctorates:** Again, related to the mission of research universities, we can track the number of doctorates awarded. This indicator is less precisely related to the main research competition because the doctorate data include a wide range of disciplines outside of science and engineering, particularly in education. The top research universities have a significant commitment to the production of doctorates, although many much less research-intensive universities also produce significant numbers of doctoral degrees. Over time, the percentage of all doctoral degrees awarded by our research institutions at the \$40M and above level of federal research expenditures has declined as many other, less research-intensive institutions, have expanded their doctoral productivity. Also, the production of doctorates is influenced by the total size of an institution's graduate population. Among the members of our top research group, their market share of all doctorates awarded peaked in 2011 at 75% after climbing steadily since 1999 (63%) (Figure 12). This number has dropped about 5% since 2011 and stabilized in recent years at 70% market share.<sup>16</sup>

**Figure 12. Doctorates Market Share among Over \$40M Group: 1999-2019**



The median number of doctorates awarded for the over \$40M group has stayed fairly stable over the past two decades, ranging between 200 and 250 most years (Figure 13). The gap between the top 20 group on this measure and the bottom has widened greatly over time. In 2019, the top 20 group had 24 times as many doctorates as the bottom 20 group, up from 11 times as many in 1999.

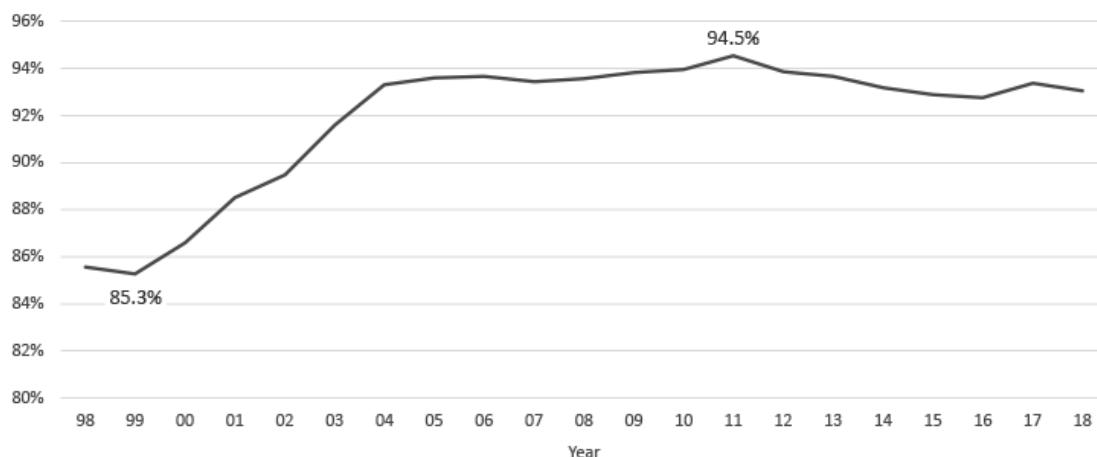
**Figure 13. Median Doctorates among Over \$40M Group: 1999-2019**



<sup>16</sup> The doctorate market is derived from data from all institutions reporting to the *NCES IPEDS Completions Survey* [<https://nces.ed.gov/ipeds/use-the-data/survey-components/7/completions>]. A few institutions in our over \$40 million group do not offer degrees and are not included in the analysis of medians over time (Figure 13).

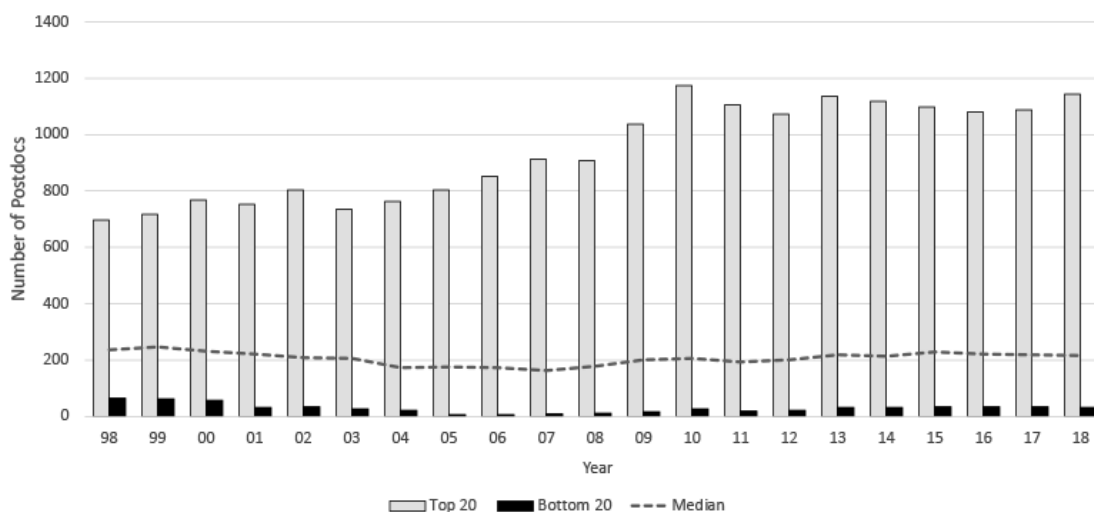
**Postdoctoral Appointees:** Postdoctoral appointees are a critical element in many research programs and grants, and the number of these highly trained individuals supported by grants or from institutional funds offer an additional perspective on the size of the personnel investment that sustains research performance. The over \$40M group holds a significant share of the total postdoc market, ranging between 92 and 94% since 2004 (Figure 14).<sup>17</sup>

**Figure 14. Postdoc Market Share among Over \$40M Group: 1998-2018**



As with many of our measures, this one is highly concentrated among a few institutions. Of the total postdocs recorded in the most recent national data, the top 50 research institutions have an almost 70% share of these appointees. Postdocs show patterns similar to what we saw with doctoral degrees – fairly stable median among the full group of top research universities and wide disparity between the top and bottom institutions (Figure 15). In 2018, the top 20 group had 35 times as many postdocs as the bottom 20 group, up from 11 times as many in 1999.

**Figure 15. Median Postdocs among Over \$40M Group: 1998-2018**



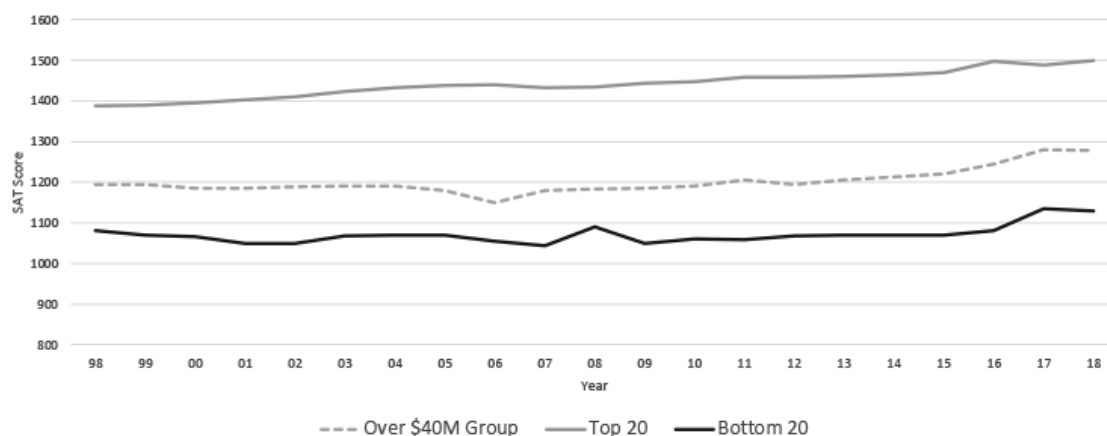
<sup>17</sup> The postdocs market is based on data from all institutions reporting postdoctoral appointees to the *NSF Survey of Graduate Students and Postdoctorates in Science and Engineering* [<https://www.nsf.gov/statistics/srvygradpostdoc/>]. Not every institution hires postdocs; those institutions are excluded in the analysis of medians over time (Figure 15).

**Undergraduate Quality:** Clearly indicating the complexity of higher education competition, selectivity in admission to the first year of undergraduate study has long been a much discussed and criticized indicator of quality. Top research universities have always been able to maintain very selective undergraduate admissions as signaled by the SAT scores of the entering class each year. But this selectivity is mostly a reflection of brand value, enhanced by a major research reputation to be sure, but also subject to many other influences that drive brand value for all higher education institutions.

For undergraduates, the research profile of a higher education institution may well be an attractive element in their brand perception but so too are football and other high profile athletic successes, elaborate undergraduate facilities and programs, and other features of student life mostly unrelated to research. High SAT scores and the selectivity they indicate have been as much a characteristic of small, elite undergraduate colleges as they have of high-powered research universities.

This indicator, which demonstrates primarily the attractiveness of research universities to highly sought after first year applicants, is likely to become obsolete as many institutions eliminate this data point from their evaluations of student applicants (Figure 16). Because of this, tracking the median SAT score over time becomes more difficult and less useful. The top group of 20 institutions on SAT scores has ranged from about 1400 to 1500, the over \$40M group taken together between 1200 and 1300, and the bottom 20 group around 1100.<sup>18</sup>

**Figure 16. Median SAT Scores among Over \$40M Group: 1998-2018**



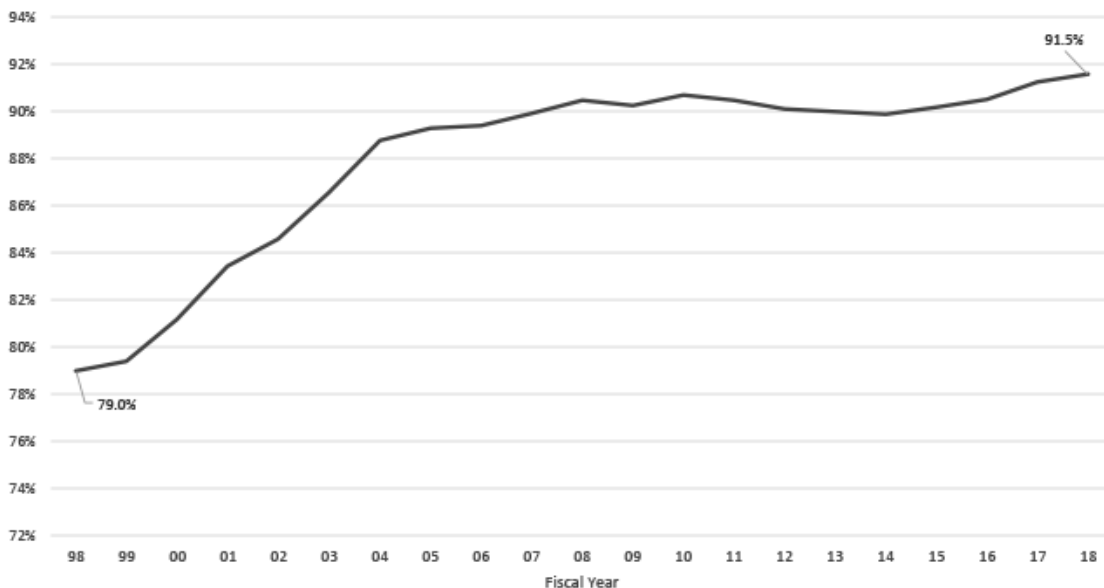
**Total Research Expenditures:** Finally, we return to an additional important indicator of research preeminence, Total Research Expenditures. This indicator attempts to capture all the research an institution supports each year, whatever the source of funding. This includes not only the peer reviewed federal research expenditures for science, medicine, and engineering, our core measurement, but also research expenditures supported by state agencies that only fund local projects, grants from foundation sources that may not use peer review, or awards from corporate research opportunities that are specifically targeted at particular institutions. Research funding also comes from federal programs pursuing specific research

<sup>18</sup> SAT and ACT data in recent years comes from NCES IPEDS Admissions data, and from the Annual Survey of the College Board in the early years of our project. Both sources report the 25th and 75th percentile for verbal and quantitative scores and we calculate the median of that range. For those institutions that report both the ACT and SAT, we select the test scores which have the greatest percentage of students reporting. ACT scores are converted to an equivalent SAT score using concordance tables published by The College Board. In addition to the SAT/ACT indicator, we have looked at the impact of enrollment on various institutional characteristics. See for example the text accompanying "Table 7. Student Enrollment," in the essay "America's Research Universities: Is the Enterprise Model Sustainable?" in *TARU*, 2017 [[https://mup.umass.edu/sites/default/files/annual\\_report\\_2017.pdf](https://mup.umass.edu/sites/default/files/annual_report_2017.pdf)]. See also the discussion of enrollment in "Staying at the Top: An Essay on the Comparative Advantage of America's Top Research Universities," in *TARU*, 2018 [[https://mup.umass.edu/sites/default/files/mup\\_2018\\_comparative\\_advantage.pdf](https://mup.umass.edu/sites/default/files/mup_2018_comparative_advantage.pdf)]. Also of interest here as elsewhere is the study published in *TARU*, 2019, Lombardi, Craig, Michael M.E. Johns, and William B. Rouse, "The Unrecognized Complexity of Higher Education," [<https://mup.umass.edu/sites/default/files/mup-2019-unrecognized-complexity.pdf>].

initiatives of interest to congress, federal agencies, or the national defense and intelligence agencies. The value of this indicator is less as a guide to institutional competitiveness and more as a token of the level of research activity within a university. Over time, this number, which includes the federal expenditures from the core measure, has grown substantially, reflecting the importance of state and local, private and corporate interest in university research programs.

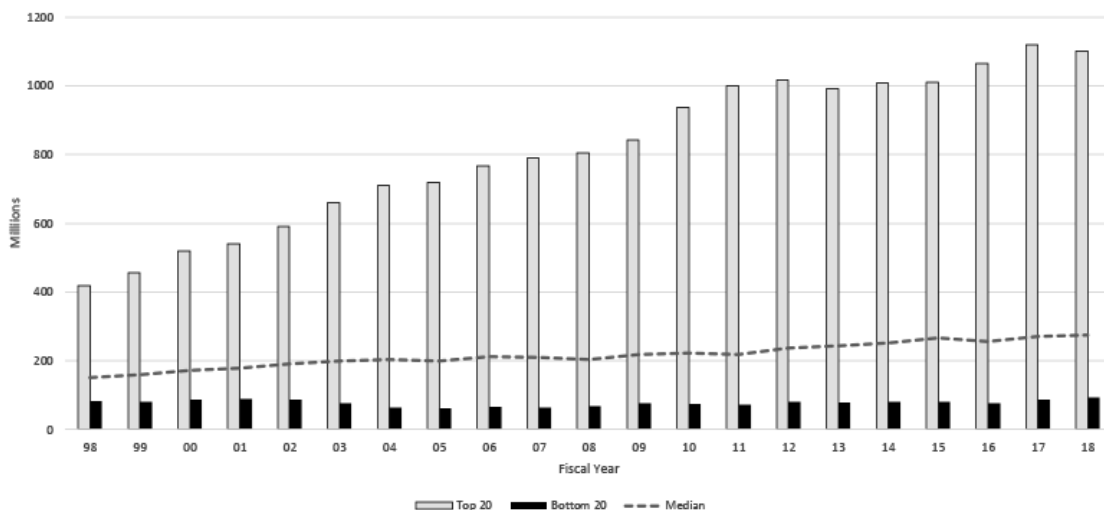
The total research expenditures of our top research group shows growth patterns similar to federal research, rapid growth in market share up until 2004 then a more steady increase and stabilization in past decade (Figure 17). Total research market share has seen an uptick in the past couple of years, reaching a record high of 91.5% in 2018.

**Figure 17. Total Research Market Share among Over \$40M Group: 1998-2018**



Like our other measures, the growth in total research expenditures is much greater among the top 20 institutions than the bottom 20 (Figure 18). Total research among the top 20 has grown from \$420M in 1998 to \$1.1B in 2018, a 162% increase. In contrast, the bottom 20 has grown only 12% over the past 20 years, from \$82M in 1998 to \$93M in 2018.

**Figure 18. Median Total Research among Over \$40M Group: 1998-2018**



**Complexity of Higher Education Enterprise:** At the beginning of this journey through research university performance indicators we took as our focus the challenge of each individual campus commitment to improvement. As our work continued, we became interested in the structure of the American university enterprise, with a particular interest in its competitive context. This led us to recognize the remarkable complexity of the higher education industry in America. This complexity is somewhat disguised by the undergraduate programs of colleges and universities that as a consequence of accreditation appear remarkably standardized. The rules and customs that define an undergraduate degree are well known, and the similarity of undergraduate programs challenges institutions to differentiate themselves from competitors as they seek funds and students.<sup>19</sup>

The basic content of an undergraduate degree is remarkably consistent across quite different institutions from small liberal arts colleges to major high performing research universities. Because this content is quite similar from institution to institution, and because differences that might be significant are hard to explain or illustrate to the undergraduate student marketplace, colleges and universities have developed extensive and deep context programs that surround the more or less standardized content. This context ranges from extensive and sophisticated student services that look after student health, safety, psychological stability, identity issues and support, and a host of other concerns related to the challenges of the mostly young people living and studying within these institutions.

Activities that entertain students and support their emotional, intellectual, and personal growth have expanded greatly requiring better facilities and extensive staff devoted to the non-academic interests of students. The quality of these facilities and the depth of staff commitment is a key element in the competition for enrollment and the expense to support these facilities, personnel, and programs have grown dramatically as context has become critical in the competition for student enrollment.

Even though institutions offer eloquent explanations of the importance of this context in driving student academic success, the greatly increased expenditures give a clear indication that context and content may well become increasingly defined as separate products in the university competition for student enrollment. Some indicators of this appear in the impact of successful big time athletic programs on enrollment growth. This activity bears almost no relationship to the content of the academic programs of a university, and yet the data appear to indicate a significant improvement in student recruitment success as a result of high visibility athletic programs and their role within the context of student and institutional life.

**Looking toward the Future:** As we close out the life cycle of this project, we are tempted to project the future of the American university marketplace. Although it is always dangerous to think we can know the future, some elements of past behavior can serve to help us anticipate what may come next.

The most useful projection into the future is to recognize that the intense competition for money will almost certainly define the adjustments and readjustments in the higher education marketplace. We can anticipate that small colleges of under 2,000 students without large endowments are likely to struggle and a number of these will disappear over the next decade. Over the last few years, we have seen at least 15 non-profit private institutions disappear from the national data, and we can anticipate perhaps a continued decline in this group as inadequately funded institutions are closed or absorbed by other colleges. Few public institutions will disappear, although some may be consolidated within larger statewide university systems as local political considerations tend to slow the elimination of small uneconomic state campuses. The rise and fall of for-profit and other innovative instructional enterprises that we have witnessed in recent years will likely result in new arrangements that seek to capture the surplus revenue possible from for-profit instructional programs subsidized by federal student aid and relatively permissive loan structures. Some for-profits will convert themselves to non-profits but retain financial linkages that transfer revenue from the non-profit's

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<sup>19</sup> We have worked on this issue with other colleagues. See the item above "The Unrecognized Complexity of Higher Education," by Lombardi, et al.

accredited instructional services to a for-profit through a wide range of service contracts. National political initiatives to subsidize the cost of student attendance and significantly increase the college-going population, may perhaps reduce the impact of demographic readjustments in the 18-24 college-eligible group.<sup>20</sup>

Among the many changes we can anticipate, current estimates and past behavior indicate that the national commitment to funding academic research will remain strong and continue to expand. Throughout the period of this project, through economic crises and prosperity, the total federal research commitment has continued to grow. The focus of federal investment can change over time as federal priorities change, but America's research institutions have been remarkably successful at following these policy changes with research proposals that continue to win funding in the peer review process. We do not anticipate any significant reduction, for example, in the current emphasis on medically related federal research funding, a category that has continued to expand over the years. The advantage of having a research-intensive medical school as part of a research university will continue to be significant, although our data show that it is the research intensity of a medical school that helps university competition, not just the presence of a medical school.<sup>21</sup>

The current structure of the higher education marketplace is likely to remain relatively stable, with institutions falling into four major categories: high intensity research universities, comprehensive universities with some research presence, predominantly instructional institutions with significant masters and professional programs, and small public and private institutions that focus almost exclusively on undergraduate education. This last category is easily subdivided into those institutions with good enrollments, perhaps over 2 to 3,000 and substantial endowments and those with smaller enrollments, low endowments, and no state funding. This last subcategory will be at constant risk of institutional closures or consolidations.

Within this higher education marketplace, however, the role of the community college is likely to remain significant and grow, not only in its traditional role as providing students from transfer programs to four-year institutions but a continued increase in the occupational programs that have been a major category of educational opportunity for students in the past. Free access to these institutions, an original characteristic of the institutional type, may become again a national or state priority and increase community colleges' strong participation in the development of a credentialed workforce with specialized critical skills. Additionally, the already robust online educational marketplace will likely expand, capturing adult students and emphasizing employment related credentials. Both traditional and online only institutions will compete aggressively in this space seeing these programs as sources of surplus revenue producers.

For our own group, the universities with over \$40M, we can be almost certain that the competitive environment that we have followed over these years will continue with the top performers remaining at the top and a few challengers entering the top ranks. In every case, success will come from effective investment in all the assets required to acquire highly qualified and competitive research faculty, staff, and students.

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<sup>20</sup> NCES Digest of Education Statistics has a table that tracks college closures, table 317.50 in the most recent digest available [[https://nces.ed.gov/programs/digest/current\\_tables.asp](https://nces.ed.gov/programs/digest/current_tables.asp)]. For a perspective on the closure or consolidation of academic institutions a useful review of those since 2016 is in "A look at trends in college consolidation since 2016, *Higher Ed Dive*, January 28, 2021 [<https://www.highereddive.com/news/how-many-colleges-and-universities-have-closed-since-2016/539379/>]

<sup>21</sup> For review of the federal commitment to academic R&D see the comprehensive report in National Science Board, *Academic Research and Development. Science and Engineering Indicators 2020*. National Science Foundation (NSB-2020-2), Alexandria, VA, 2020 [<https://nces.nsf.gov/pubs/nsb20202/>]. A comprehensive study of the current and future research context see Tim Lieuwen and Wen Masters (Co-Chairs), *Research Next: A Landscape Analysis for the Future of University Research* (Atlanta: Georgia Tech, 2021) [<https://researchnext.gatech.edu/>]

# Appendix. Institutions in the Top American Research Universities: 2000-2020

| Institutions                                          | Control | State | Standalone Medical (Med) or Specialized Institution (Spec) | Number of Years in TARU (Over \$40M) | Number of Years in Top 1-25 National | Number of Years in Top 1-25 Control |
|-------------------------------------------------------|---------|-------|------------------------------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|
| Arizona State University                              | Public  | AZ    |                                                            | 21                                   | 9                                    | 15                                  |
| Auburn University                                     | Public  | AL    |                                                            | 18                                   | 0                                    | 0                                   |
| Augusta University                                    | Public  | GA    |                                                            | 13                                   | 0                                    | 0                                   |
| Baylor College of Medicine                            | Private | TX    | Med                                                        | 21                                   | 8                                    | 21                                  |
| Boston University                                     | Private | MA    |                                                            | 21                                   | 10                                   | 21                                  |
| Brandeis University                                   | Private | MA    |                                                            | 11                                   | 0                                    | 4                                   |
| Brown University                                      | Private | RI    |                                                            | 21                                   | 20                                   | 21                                  |
| California Institute of Technology                    | Private | CA    |                                                            | 21                                   | 21                                   | 21                                  |
| Carnegie Mellon University                            | Private | PA    |                                                            | 21                                   | 11                                   | 21                                  |
| Case Western Reserve University                       | Private | OH    |                                                            | 21                                   | 7                                    | 21                                  |
| Charles R. Drew University of Medicine and Science    | Private | CA    | Med                                                        | 6                                    | 0                                    | 0                                   |
| Clemson University                                    | Public  | SC    |                                                            | 18                                   | 0                                    | 3                                   |
| Cleveland State University                            | Public  | OH    |                                                            | 8                                    | 0                                    | 0                                   |
| Cold Spring Harbor Laboratory                         | Private | NY    | Spec                                                       | 8                                    | 0                                    | 0                                   |
| Colorado State University - Fort Collins              | Public  | CO    |                                                            | 21                                   | 0                                    | 1                                   |
| Columbia University                                   | Private | NY    |                                                            | 21                                   | 21                                   | 21                                  |
| Cornell University                                    | Private | NY    |                                                            | 21                                   | 21                                   | 21                                  |
| Dartmouth College                                     | Private | NH    |                                                            | 21                                   | 21                                   | 21                                  |
| Drexel University                                     | Private | PA    |                                                            | 16                                   | 0                                    | 2                                   |
| Duke University                                       | Private | NC    |                                                            | 21                                   | 21                                   | 21                                  |
| Emory University                                      | Private | GA    |                                                            | 21                                   | 21                                   | 21                                  |
| Florida International University                      | Public  | FL    |                                                            | 16                                   | 0                                    | 0                                   |
| Florida State University                              | Public  | FL    |                                                            | 21                                   | 0                                    | 1                                   |
| George Mason University                               | Public  | VA    |                                                            | 12                                   | 0                                    | 0                                   |
| George Washington University                          | Private | DC    |                                                            | 21                                   | 0                                    | 20                                  |
| Georgetown University                                 | Private | DC    |                                                            | 21                                   | 1                                    | 19                                  |
| Georgia Institute of Technology                       | Public  | GA    |                                                            | 21                                   | 13                                   | 21                                  |
| Georgia State University                              | Public  | GA    |                                                            | 3                                    | 0                                    | 0                                   |
| Hampton University                                    | Private | VA    |                                                            | 1                                    | 0                                    | 0                                   |
| Harvard University                                    | Private | MA    |                                                            | 21                                   | 21                                   | 21                                  |
| Howard University                                     | Private | DC    |                                                            | 2                                    | 0                                    | 0                                   |
| Icahn School of Medicine at Mount Sinai               | Private | NY    | Med                                                        | 21                                   | 9                                    | 21                                  |
| Indiana University - Bloomington                      | Public  | IN    |                                                            | 20                                   | 1                                    | 21                                  |
| Indiana University - Purdue University - Indianapolis | Public  | IN    |                                                            | 17                                   | 0                                    | 5                                   |
| Iowa State University                                 | Public  | IA    |                                                            | 21                                   | 0                                    | 4                                   |
| Johns Hopkins University                              | Private | MD    |                                                            | 21                                   | 21                                   | 21                                  |
| Kansas State University                               | Public  | KS    |                                                            | 17                                   | 0                                    | 1                                   |
| Louisiana State University - Baton Rouge              | Public  | LA    |                                                            | 19                                   | 0                                    | 0                                   |
| Louisiana State University HSC - New Orleans          | Public  | LA    | Med                                                        | 9                                    | 0                                    | 0                                   |
| Massachusetts Institute of Technology                 | Private | MA    |                                                            | 21                                   | 21                                   | 21                                  |
| MCP Hahnemann University*                             | Private | PA    | Med                                                        | 1                                    | 0                                    | 0                                   |
| Medical College of Wisconsin                          | Private | WI    | Med                                                        | 21                                   | 0                                    | 0                                   |
| Medical University of South Carolina                  | Public  | SC    | Med                                                        | 19                                   | 0                                    | 0                                   |
| Michigan State University                             | Public  | MI    |                                                            | 21                                   | 13                                   | 21                                  |
| Mississippi State University                          | Public  | MS    |                                                            | 21                                   | 0                                    | 0                                   |
| Montana State University - Bozeman                    | Public  | MT    |                                                            | 16                                   | 0                                    | 0                                   |

## Appendix. Institutions in the Top American Research Universities: 2000-2020 (Cont.)

| Institutions                                      | Control | State | Standalone Medical (Med) or Specialized Institution (Spec) | Number of Years in TARU (Over \$40M) | Number of Years in Top 1-25 National | Number of Years in Top 1-25 Control |
|---------------------------------------------------|---------|-------|------------------------------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|
| Naval Postgraduate School                         | Public  | CA    | Spec                                                       | 18                                   | 0                                    | 0                                   |
| New Jersey Institute of Technology                | Public  | NJ    |                                                            | 12                                   | 0                                    | 0                                   |
| New Mexico Institute of Mining and Technology     | Public  | NM    |                                                            | 5                                    | 0                                    | 2                                   |
| New Mexico State University - Las Cruces          | Public  | NM    |                                                            | 21                                   | 0                                    | 1                                   |
| New York University                               | Private | NY    |                                                            | 21                                   | 21                                   | 21                                  |
| North Carolina State University                   | Public  | NC    |                                                            | 21                                   | 2                                    | 19                                  |
| North Dakota State University                     | Public  | ND    |                                                            | 9                                    | 0                                    | 0                                   |
| Northeastern University                           | Private | MA    |                                                            | 9                                    | 3                                    | 6                                   |
| Northwestern University                           | Private | IL    |                                                            | 21                                   | 21                                   | 21                                  |
| Ohio State University - Columbus                  | Public  | OH    |                                                            | 21                                   | 21                                   | 21                                  |
| Oklahoma State University - Stillwater            | Public  | OK    |                                                            | 9                                    | 0                                    | 1                                   |
| Oregon Health & Science University                | Public  | OR    | Med                                                        | 21                                   | 0                                    | 8                                   |
| Oregon State University                           | Public  | OR    |                                                            | 21                                   | 0                                    | 1                                   |
| Pennsylvania State University - Hershey Med. Ctr. | Public  | PA    | Med                                                        | 12                                   | 0                                    | 0                                   |
| Pennsylvania State University - University Park   | Public  | PA    |                                                            | 21                                   | 21                                   | 21                                  |
| Princeton University                              | Private | NJ    |                                                            | 21                                   | 21                                   | 21                                  |
| Purdue University - West Lafayette                | Public  | IN    |                                                            | 21                                   | 21                                   | 21                                  |
| Rensselaer Polytechnic Institute                  | Private | NY    |                                                            | 14                                   | 0                                    | 1                                   |
| Rice University                                   | Private | TX    |                                                            | 16                                   | 21                                   | 21                                  |
| Rockefeller University                            | Private | NY    | Spec                                                       | 21                                   | 20                                   | 21                                  |
| Rush University                                   | Private | IL    | Med                                                        | 16                                   | 0                                    | 0                                   |
| Rutgers University - New Brunswick                | Public  | NJ    |                                                            | 21                                   | 7                                    | 21                                  |
| Saint Louis University - St. Louis                | Private | MO    |                                                            | 4                                    | 0                                    | 7                                   |
| San Diego State University                        | Public  | CA    |                                                            | 8                                    | 0                                    | 0                                   |
| Scripps Research Institute                        | Private | CA    | Spec                                                       | 15                                   | 1                                    | 21                                  |
| South Dakota State University                     | Public  | SD    |                                                            | 2                                    | 0                                    | 0                                   |
| Stanford University                               | Private | CA    |                                                            | 21                                   | 21                                   | 21                                  |
| State Univ. of New York - Polytechnic Institute   | Public  | NY    |                                                            | 2                                    | 0                                    | 0                                   |
| Stony Brook University                            | Public  | NY    |                                                            | 21                                   | 1                                    | 9                                   |
| Syracuse University                               | Private | NY    |                                                            | 2                                    | 0                                    | 0                                   |
| Temple University                                 | Public  | PA    |                                                            | 18                                   | 0                                    | 4                                   |
| Texas A&M University - College Station            | Public  | TX    |                                                            | 21                                   | 21                                   | 21                                  |
| Thomas Jefferson University                       | Private | PA    | Med                                                        | 21                                   | 0                                    | 3                                   |
| Tufts University                                  | Private | MA    |                                                            | 21                                   | 12                                   | 19                                  |
| Tulane University                                 | Private | LA    |                                                            | 21                                   | 0                                    | 0                                   |
| U.S. Air Force Academy                            | Public  | CO    |                                                            | 5                                    | 0                                    | 18                                  |
| Uniformed Services Univ. of the Health Sciences   | Public  | MD    | Med                                                        | 13                                   | 0                                    | 1                                   |
| University at Albany                              | Public  | NY    |                                                            | 20                                   | 0                                    | 1                                   |
| University at Buffalo                             | Public  | NY    |                                                            | 21                                   | 0                                    | 10                                  |
| University of Alabama - Birmingham                | Public  | AL    |                                                            | 21                                   | 6                                    | 21                                  |
| University of Alabama - Huntsville                | Public  | AL    |                                                            | 14                                   | 0                                    | 2                                   |
| University of Alaska - Fairbanks                  | Public  | AK    |                                                            | 19                                   | 1                                    | 3                                   |
| University of Arizona                             | Public  | AZ    |                                                            | 21                                   | 12                                   | 21                                  |
| University of Arkansas - Fayetteville             | Public  | AR    |                                                            | 2                                    | 1                                    | 6                                   |
| University of Arkansas for Medical Sciences       | Public  | AR    | Med                                                        | 16                                   | 0                                    | 4                                   |
| University of California - Berkeley               | Public  | CA    |                                                            | 21                                   | 21                                   | 21                                  |

**Appendix. Institutions in the Top American Research Universities: 2000-2020 (Cont.)**

| Institutions                                      | Control | State | Standalone Medical (Med) or Specialized Institution (Spec) | Number of Years in TARU (Over \$40M) | Number of Years in Top 1-25 National | Number of Years in Top 1-25 Control |
|---------------------------------------------------|---------|-------|------------------------------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|
| University of California - Davis                  | Public  | CA    |                                                            | 21                                   | 21                                   | 21                                  |
| University of California - Irvine                 | Public  | CA    |                                                            | 21                                   | 4                                    | 21                                  |
| University of California - Los Angeles            | Public  | CA    |                                                            | 21                                   | 21                                   | 21                                  |
| University of California - Riverside              | Public  | CA    |                                                            | 16                                   | 0                                    | 2                                   |
| University of California - San Diego              | Public  | CA    |                                                            | 21                                   | 21                                   | 21                                  |
| University of California - San Francisco          | Public  | CA    | Med                                                        | 21                                   | 21                                   | 21                                  |
| University of California - Santa Barbara          | Public  | CA    |                                                            | 21                                   | 18                                   | 21                                  |
| University of California - Santa Cruz             | Public  | CA    |                                                            | 15                                   | 0                                    | 0                                   |
| University of Central Florida                     | Public  | FL    |                                                            | 15                                   | 0                                    | 0                                   |
| University of Chicago                             | Private | IL    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Cincinnati - Cincinnati             | Public  | OH    |                                                            | 21                                   | 0                                    | 18                                  |
| University of Colorado - Boulder                  | Public  | CO    |                                                            | 21                                   | 17                                   | 21                                  |
| University of Colorado - Denver/Anschutz Medical  | Public  | CO    |                                                            | 21                                   | 0                                    | 19                                  |
| University of Connecticut - Health Center         | Public  | CT    | Med                                                        | 17                                   | 0                                    | 0                                   |
| University of Connecticut - Storrs                | Public  | CT    |                                                            | 17                                   | 0                                    | 2                                   |
| University of Dayton                              | Private | OH    |                                                            | 17                                   | 0                                    | 0                                   |
| University of Delaware                            | Public  | DE    |                                                            | 18                                   | 0                                    | 21                                  |
| University of Florida                             | Public  | FL    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Georgia                             | Public  | GA    |                                                            | 21                                   | 2                                    | 19                                  |
| University of Hawaii - Manoa                      | Public  | HI    |                                                            | 21                                   | 0                                    | 0                                   |
| University of Houston - University Park           | Public  | TX    |                                                            | 12                                   | 0                                    | 1                                   |
| University of Idaho                               | Public  | ID    |                                                            | 16                                   | 0                                    | 0                                   |
| University of Illinois - Chicago                  | Public  | IL    |                                                            | 21                                   | 0                                    | 5                                   |
| University of Illinois - Urbana-Champaign         | Public  | IL    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Iowa                                | Public  | IA    |                                                            | 21                                   | 1                                    | 21                                  |
| University of Kansas - Lawrence                   | Public  | KS    |                                                            | 19                                   | 0                                    | 18                                  |
| University of Kansas Medical Center               | Public  | KS    | Med                                                        | 14                                   | 0                                    | 0                                   |
| University of Kentucky                            | Public  | KY    |                                                            | 21                                   | 0                                    | 4                                   |
| University of Louisville                          | Public  | KY    |                                                            | 15                                   | 0                                    | 1                                   |
| University of Maine - Orono                       | Public  | ME    |                                                            | 8                                    | 0                                    | 0                                   |
| University of Maryland - Baltimore                | Public  | MD    | Med                                                        | 21                                   | 0                                    | 5                                   |
| University of Maryland - Baltimore County         | Public  | MD    |                                                            | 14                                   | 0                                    | 0                                   |
| University of Maryland - College Park             | Public  | MD    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Massachusetts - Amherst             | Public  | MA    |                                                            | 20                                   | 0                                    | 4                                   |
| University of Massachusetts Med. Sch. - Worcester | Public  | MA    | Med                                                        | 21                                   | 2                                    | 6                                   |
| University of Medicine & Dentistry of New Jersey* | Public  | NJ    | Med                                                        | 16                                   | 0                                    | 0                                   |
| University of Miami                               | Private | FL    |                                                            | 21                                   | 0                                    | 21                                  |
| University of Michigan - Ann Arbor                | Public  | MI    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Minnesota - Twin Cities             | Public  | MN    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Mississippi - Oxford                | Public  | MS    |                                                            | 3                                    | 0                                    | 0                                   |
| University of Mississippi Medical Center          | Public  | MS    | Med                                                        | 1                                    | 0                                    | 0                                   |
| University of Missouri - Columbia                 | Public  | MO    |                                                            | 21                                   | 0                                    | 5                                   |
| University of Montana - Missoula                  | Public  | MT    |                                                            | 3                                    | 0                                    | 0                                   |
| University of Nebraska - Lincoln                  | Public  | NE    |                                                            | 19                                   | 0                                    | 8                                   |
| University of Nebraska Medical Center             | Public  | NE    | Med                                                        | 15                                   | 0                                    | 0                                   |
| University of Nevada - Las Vegas                  | Public  | NV    |                                                            | 3                                    | 0                                    | 0                                   |

## Appendix. Institutions in the Top American Research Universities: 2000-2020 (Cont.)

| Institutions                                        | Control | State | Standalone Medical (Med) or Specialized Institution (Spec) | Number of Years in TARU (Over \$40M) | Number of Years in Top 1-25 National | Number of Years in Top 1-25 Control |
|-----------------------------------------------------|---------|-------|------------------------------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|
| University of Nevada - Reno                         | Public  | NV    |                                                            | 16                                   | 0                                    | 0                                   |
| University of New Hampshire - Durham                | Public  | NH    |                                                            | 18                                   | 0                                    | 0                                   |
| University of New Mexico - Albuquerque              | Public  | NM    |                                                            | 21                                   | 0                                    | 1                                   |
| University of North Carolina - Chapel Hill          | Public  | NC    |                                                            | 21                                   | 21                                   | 21                                  |
| University of North Dakota                          | Public  | ND    |                                                            | 11                                   | 0                                    | 0                                   |
| University of Notre Dame                            | Private | IN    |                                                            | 16                                   | 21                                   | 21                                  |
| University of Oklahoma - Health Sciences Center     | Public  | OK    | Med                                                        | 15                                   | 0                                    | 0                                   |
| University of Oklahoma - Norman                     | Public  | OK    |                                                            | 13                                   | 0                                    | 7                                   |
| University of Oregon                                | Public  | OR    |                                                            | 15                                   | 0                                    | 6                                   |
| University of Pennsylvania                          | Private | PA    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Pittsburgh - Pittsburgh               | Public  | PA    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Puerto Rico - Medical Sciences        | Public  | PR    | Med                                                        | 1                                    | 0                                    | 0                                   |
| University of Rhode Island                          | Public  | RI    |                                                            | 18                                   | 0                                    | 0                                   |
| University of Rochester                             | Private | NY    |                                                            | 21                                   | 1                                    | 21                                  |
| University of South Carolina - Columbia             | Public  | SC    |                                                            | 21                                   | 0                                    | 1                                   |
| University of South Florida - Tampa                 | Public  | FL    |                                                            | 20                                   | 0                                    | 0                                   |
| University of Southern California                   | Private | CA    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Southern Mississippi                  | Public  | MS    |                                                            | 4                                    | 0                                    | 0                                   |
| University of Tennessee - Knoxville                 | Public  | TN    |                                                            | 21                                   | 0                                    | 6                                   |
| University of Tennessee Health Science Center       | Public  | TN    | Med                                                        | 12                                   | 0                                    | 0                                   |
| University of Texas - Austin                        | Public  | TX    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Texas - El Paso                       | Public  | TX    |                                                            | 4                                    | 0                                    | 0                                   |
| University of Texas HSC - Houston                   | Public  | TX    | Med                                                        | 21                                   | 0                                    | 0                                   |
| University of Texas HSC - San Antonio               | Public  | TX    | Med                                                        | 21                                   | 0                                    | 0                                   |
| University of Texas MD Anderson Cancer Center       | Public  | TX    | Med                                                        | 21                                   | 18                                   | 20                                  |
| University of Texas Medical Branch - Galveston      | Public  | TX    | Med                                                        | 21                                   | 0                                    | 2                                   |
| University of Texas SW Medical Center - Dallas      | Public  | TX    | Med                                                        | 21                                   | 4                                    | 21                                  |
| University of Toledo                                | Public  | OH    |                                                            | 1                                    | 0                                    | 0                                   |
| University of Utah                                  | Public  | UT    |                                                            | 21                                   | 1                                    | 21                                  |
| University of Vermont                               | Public  | VT    |                                                            | 18                                   | 0                                    | 0                                   |
| University of Virginia                              | Public  | VA    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Washington - Seattle                  | Public  | WA    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Wisconsin - Madison                   | Public  | WI    |                                                            | 21                                   | 21                                   | 21                                  |
| University of Wyoming                               | Public  | WY    |                                                            | 8                                    | 0                                    | 0                                   |
| Utah State University                               | Public  | UT    |                                                            | 21                                   | 0                                    | 0                                   |
| Vanderbilt University                               | Private | TN    |                                                            | 21                                   | 21                                   | 21                                  |
| Virginia Commonwealth University                    | Public  | VA    |                                                            | 21                                   | 0                                    | 7                                   |
| Virginia Polytechnic Institute and State University | Public  | VA    |                                                            | 21                                   | 0                                    | 13                                  |
| Wake Forest University                              | Private | NC    |                                                            | 21                                   | 0                                    | 2                                   |
| Washington State University - Pullman               | Public  | WA    |                                                            | 21                                   | 0                                    | 0                                   |
| Washington University in St. Louis                  | Private | MO    |                                                            | 21                                   | 21                                   | 21                                  |
| Wayne State University                              | Public  | MI    |                                                            | 21                                   | 0                                    | 0                                   |
| Weill Cornell Medical College                       | Private | NY    | Med                                                        | 21                                   | 0                                    | 20                                  |
| West Virginia University                            | Public  | WV    |                                                            | 17                                   | 0                                    | 0                                   |
| Woods Hole Oceanographic Institution                | Private | MA    | Spec                                                       | 21                                   | 0                                    | 0                                   |
| Wright State University - Dayton                    | Public  | OH    |                                                            | 1                                    | 0                                    | 0                                   |
| Yale University                                     | Private | CT    |                                                            | 21                                   | 21                                   | 21                                  |
| Yeshiva University                                  | Private | NY    |                                                            | 21                                   | 3                                    | 19                                  |

\* No longer open. UMDNJ merged with Rutgers and MCP Hahnemann merged with Drexel.



## Part I – The Top American Research Universities

*The Center for Measuring University Performance* determines the Top American Research Universities by their rank on nine different measures: Total Research, Federal Research, Endowment Assets, Annual Giving, National Academy Members, Faculty Awards, Doctorates Granted, Postdoctoral Appointees, and SAT scores. (The Source Notes section of this study provides detailed information on each of the nine indicators.) The tables group research institutions according to how many times they rank in the top 25 on each of these nine measures. The top category includes those universities that rank in the top 25 on all nine indicators. The bottom category includes universities with only one of the nine measures ranked in the top 25. Within these groups, institutions are then sorted by how many times they rank between 26 and 50 on the nine performance variables, with ties listed alphabetically. A similar methodology produces a second set of institutions—those ranked 26 through 50 on the same nine measures.

For the purpose of this study, *The Center for Measuring University Performance* includes only those institutions that had at least \$40 million in federal research expenditures in fiscal year 2018. This is the same dollar cutoff used since the 2008 report. There were 164 institutions who met our criteria, 117 public and 47 private.

The first two tables list each institution with the most current data available for each measure and its corresponding national rank (i.e., rank among all institutions regardless of whether they are privately or publicly controlled). The third through sixth tables provide the same nine data measures but with the groupings determined by the control rank (i.e., rank among all private or all public institutions). Institutions ranking in the top 25 on at least one measure are included in the tables with the (1-25) identifier, while those ranking 26 through 50 are found in the tables labeled with the (26-50) header. Many research universities rank highly both nationally and among their public or private peers, and therefore appear in more than one table.

- **The Top American Research Universities (1-25)** identifies the 48 institutions (23 private, 25 public) that rank in the top 25 nationally on at least one of the nine measures.

- **The Top American Research Universities (26-50)** identifies the 29 institutions (9 private, 20 public) that rank 26 through 50 nationally on at least one of the nine measures.
- **The Top Private Research Universities (1-25)** identifies the 30 private institutions that rank in the top 25 among all private universities on at least one of the nine measures.
- **The Top Private Research Universities (26-50)** identifies the 7 private institutions that rank 26 through 50 among their private counterparts on at least one of the nine measures.
- **The Top Public Research Universities (1-25)** identifies the 41 public institutions that rank in the top 25 among all public universities on at least one of the nine measures.
- **The Top Public Research Universities (26-50)** identifies the 34 public institutions that rank 26 through 50 among their public counterparts on at least one of the nine measures.
- **The Top Medical and Specialized Research Universities** tables identify the institutions that have at least one measure that ranks in the top 50 nationally or among their private and public counterparts.

Data found in these tables may not always match the figures published by the original source. *The Center for Measuring University Performance* makes adjustments, when necessary, to ensure that the data reflect the activity at a single campus rather than that of a multiple-campus institution or state university system. When data are missing from the original source, *The Center for Measuring University Performance* may substitute another figure, if available. A full discussion of this subject, and the various adjustments or substitutions made to the original data, is in the Data Notes section of this report.

*The Center for Measuring University Performance* presents these tables, along with prior years' top universities, in Microsoft Excel spreadsheets on its website [<http://mup.umass.edu>].

## The Top American Research Universities

| Top American Research Universities (1-25)                                        |                                            |                                         |                                            | Research                     |                    |                                |                    | Private                        |                    |
|----------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------|--------------------------------------------|------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|
| Institutions in Order of Top 25 Score, then Top 26-50 Score, then Alphabetically |                                            | Number of Measures in Top 25 Nationally | Number of Measures in Top 26-50 Nationally | 2018 Total Research x \$1000 | 2018 National Rank | 2018 Federal Research x \$1000 | 2018 National Rank | 2019 Endowment Assets x \$1000 | 2019 National Rank |
| Private                                                                          | Columbia University                        | 9                                       | 0                                          | 908,771                      | 17                 | 673,792                        | 6                  | 10,950,738                     | 12                 |
| Private                                                                          | Harvard University                         | 9                                       | 0                                          | 1,066,612                    | 12                 | 578,722                        | 13                 | 39,427,896                     | 1                  |
| Private                                                                          | Massachusetts Institute of Technology      | 9                                       | 0                                          | 893,508                      | 18                 | 476,576                        | 20                 | 17,569,328                     | 5                  |
| Private                                                                          | Stanford University                        | 9                                       | 0                                          | 1,106,314                    | 10                 | 685,871                        | 4                  | 27,699,834                     | 3                  |
| Private                                                                          | Duke University                            | 8                                       | 1                                          | 1,153,947                    | 8                  | 644,179                        | 10                 | 8,609,004                      | 13                 |
| Private                                                                          | Johns Hopkins University                   | 8                                       | 1                                          | 2,656,152                    | 1                  | 2,246,705                      | 1                  | 6,275,939                      | 19                 |
| Public                                                                           | University of Michigan - Ann Arbor         | 8                                       | 1                                          | 1,493,353                    | 3                  | 841,158                        | 3                  | 12,448,817                     | 9                  |
| Private                                                                          | University of Pennsylvania                 | 8                                       | 1                                          | 1,304,291                    | 5                  | 671,796                        | 7                  | 14,649,762                     | 6                  |
| Private                                                                          | Yale University                            | 8                                       | 1                                          | 972,856                      | 14                 | 549,026                        | 16                 | 30,314,800                     | 2                  |
| Private                                                                          | Northwestern University                    | 7                                       | 2                                          | 776,458                      | 27                 | 464,689                        | 21                 | 11,091,516                     | 11                 |
| Public                                                                           | University of California - Los Angeles     | 7                                       | 1                                          | 1,242,619                    | 7                  | 557,986                        | 14                 | 4,902,768                      | 26                 |
| Public                                                                           | University of Washington - Seattle         | 7                                       | 1                                          | 1,342,509                    | 4                  | 955,518                        | 2                  | 2,935,220                      | 36                 |
| Private                                                                          | Washington University in St. Louis         | 7                                       | 1                                          | 797,267                      | 25                 | 496,648                        | 18                 | 7,953,986                      | 15                 |
| Public                                                                           | University of California - Berkeley        | 6                                       | 3                                          | 747,690                      | 29                 | 324,521                        | 38                 | 4,903,675                      | 25                 |
| Private                                                                          | University of Southern California          | 6                                       | 3                                          | 854,673                      | 21                 | 488,081                        | 19                 | 5,732,101                      | 22                 |
| Public                                                                           | University of Minnesota - Twin Cities      | 6                                       | 2                                          | 915,798                      | 16                 | 455,294                        | 23                 | 3,951,464                      | 30                 |
| Public                                                                           | University of Wisconsin - Madison          | 6                                       | 2                                          | 1,113,968                    | 9                  | 555,666                        | 15                 | 3,553,672                      | 33                 |
| Public                                                                           | Ohio State University - Columbus           | 6                                       | 1                                          | 818,428                      | 23                 | 439,594                        | 24                 | 5,256,759                      | 24                 |
| Private                                                                          | Cornell University                         | 5                                       | 4                                          | 630,255                      | 36                 | 297,855                        | 43                 | 5,803,967                      | 21                 |
| Private                                                                          | New York University                        | 5                                       | 3                                          | 801,961                      | 24                 | 395,445                        | 26                 | 4,345,608                      | 27                 |
| Private                                                                          | University of Chicago                      | 5                                       | 3                                          | 412,791                      | 58                 | 297,824                        | 44                 | 8,263,868                      | 14                 |
| Public                                                                           | University of North Carolina - Chapel Hill | 5                                       | 3                                          | 1,094,063                    | 11                 | 681,581                        | 5                  | 3,671,351                      | 32                 |
| Public                                                                           | University of California - San Diego       | 5                                       | 2                                          | 1,256,171                    | 6                  | 634,676                        | 12                 | 1,746,546                      | 62                 |
| Public                                                                           | University of Texas - Austin               | 4                                       | 4                                          | 617,567                      | 38                 | 386,954                        | 28                 | 13,817,599                     | 7                  |
| Private                                                                          | Princeton University                       | 4                                       | 3                                          | 351,594                      | 71                 | 179,659                        | 71                 | 26,116,023                     | 4                  |
| Public                                                                           | Georgia Institute of Technology            | 3                                       | 5                                          | 859,009                      | 20                 | 646,317                        | 9                  | 2,169,005                      | 49                 |
| Public                                                                           | Texas A&M University - College Station     | 3                                       | 5                                          | 882,191                      | 19                 | 316,771                        | 39                 | 12,736,450                     | 8                  |
| Private                                                                          | Vanderbilt University                      | 3                                       | 5                                          | 702,128                      | 30                 | 456,599                        | 22                 | 6,270,877                      | 20                 |
| Public                                                                           | Pennsylvania State Univ. - Univ. Park      | 3                                       | 3                                          | 783,960                      | 26                 | 501,784                        | 17                 | 2,549,603                      | 39                 |
| Public                                                                           | University of Pittsburgh - Pittsburgh      | 3                                       | 3                                          | 995,762                      | 13                 | 643,129                        | 11                 | 4,311,387                      | 28                 |
| Private                                                                          | University of Notre Dame                   | 3                                       | 1                                          | 190,469                      | 109                | 92,144                         | 108                | 11,268,365                     | 10                 |
| Private                                                                          | Emory University                           | 2                                       | 6                                          | 693,172                      | 31                 | 392,971                        | 27                 | 7,872,381                      | 16                 |
| Public                                                                           | Purdue University - West Lafayette         | 2                                       | 5                                          | 535,826                      | 42                 | 230,208                        | 59                 | 2,625,278                      | 38                 |
| Public                                                                           | University of California - Davis           | 2                                       | 5                                          | 774,775                      | 28                 | 354,823                        | 31                 | 1,670,738                      | 66                 |
| Public                                                                           | Univ. of Illinois - Urbana-Champaign       | 2                                       | 5                                          | 609,984                      | 39                 | 339,732                        | 35                 | 1,857,157                      | 58                 |
| Private                                                                          | California Institute of Technology         | 2                                       | 4                                          | 363,007                      | 67                 | 268,765                        | 47                 | 2,975,376                      | 35                 |
| Public                                                                           | University of Florida                      | 2                                       | 4                                          | 831,362                      | 22                 | 340,725                        | 34                 | 1,825,250                      | 59                 |
| Public                                                                           | Arizona State University                   | 2                                       | 3                                          | 559,391                      | 41                 | 244,795                        | 56                 | 922,103                        | 121                |
| Private                                                                          | Dartmouth College                          | 2                                       | 1                                          | 287,951                      | 79                 | 139,692                        | 88                 | 5,731,322                      | 23                 |
| Private                                                                          | Rice University                            | 2                                       | 0                                          | 157,352                      | 124                | 77,607                         | 126                | 6,481,102                      | 18                 |
| Public                                                                           | Michigan State University                  | 1                                       | 6                                          | 673,959                      | 32                 | 315,674                        | 40                 | 3,404,779                      | 34                 |
| Public                                                                           | University of Maryland - College Park      | 1                                       | 5                                          | 529,200                      | 45                 | 351,952                        | 32                 | 652,556                        | 165                |
| Public                                                                           | University of Virginia                     | 1                                       | 5                                          | 490,902                      | 50                 | 231,161                        | 58                 | 7,058,235                      | 17                 |
| Private                                                                          | Brown University                           | 1                                       | 4                                          | 233,689                      | 95                 | 161,384                        | 79                 | 3,976,694                      | 29                 |
| Public                                                                           | North Carolina State University            | 1                                       | 4                                          | 497,851                      | 49                 | 214,440                        | 61                 | 1,400,655                      | 77                 |
| Public                                                                           | Rutgers University - New Brunswick         | 1                                       | 4                                          | 666,368                      | 34                 | 330,823                        | 36                 | 1,253,185                      | 86                 |
| Private                                                                          | Carnegie Mellon University                 | 1                                       | 2                                          | 318,218                      | 74                 | 181,958                        | 70                 | 2,542,650                      | 40                 |
| Public                                                                           | University of California - Santa Barbara   | 1                                       | 2                                          | 223,349                      | 98                 | 110,065                        | 98                 | 263,100                        | 290                |

## The Top American Research Universities

| Support                              |                          | Faculty                                |                          |                           |                          | Advanced Training             |                          |                      |                          | Undergraduate         |                          |
|--------------------------------------|--------------------------|----------------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|--------------------------|----------------------|--------------------------|-----------------------|--------------------------|
| 2019<br>Annual<br>Giving<br>x \$1000 | 2019<br>National<br>Rank | 2019<br>National<br>Academy<br>Members | 2019<br>National<br>Rank | 2019<br>Faculty<br>Awards | 2019<br>National<br>Rank | 2019<br>Doctorates<br>Granted | 2019<br>National<br>Rank | 2018<br>Post<br>Docs | 2018<br>National<br>Rank | 2018<br>Median<br>SAT | 2018<br>National<br>Rank |
| 668,002                              | 7                        | 144                                    | 5                        | 41                        | 6                        | 576                           | 22                       | 1,294                | 6                        | 1505                  | 6                        |
| 1,378,968                            | 2                        | 428                                    | 1                        | 76                        | 1                        | 771                           | 9                        | 6,024                | 1                        | 1520                  | 4                        |
| 594,564                              | 11                       | 283                                    | 3                        | 30                        | 11                       | 687                           | 18                       | 1,413                | 4                        | 1535                  | 2                        |
| 1,112,229                            | 3                        | 336                                    | 2                        | 51                        | 3                        | 770                           | 10                       | 2,304                | 2                        | 1495                  | 17                       |
| 507,090                              | 16                       | 73                                     | 17                       | 22                        | 28                       | 551                           | 25                       | 671                  | 22                       | 1500                  | 9                        |
| 2,665,590                            | 1                        | 120                                    | 10                       | 23                        | 25                       | 537                           | 28                       | 1,786                | 3                        | 1500                  | 9                        |
| 500,987                              | 17                       | 120                                    | 10                       | 56                        | 2                        | 827                           | 6                        | 1,350                | 5                        | 1420                  | 47                       |
| 626,235                              | 9                        | 136                                    | 7                        | 41                        | 6                        | 548                           | 26                       | 1,141                | 11                       | 1485                  | 19                       |
| 657,109                              | 8                        | 129                                    | 8                        | 31                        | 9                        | 430                           | 40                       | 1,186                | 9                        | 1515                  | 5                        |
| 390,138                              | 23                       | 53                                     | 23                       | 30                        | 11                       | 518                           | 32                       | 920                  | 15                       | 1500                  | 9                        |
| 733,013                              | 4                        | 109                                    | 14                       | 27                        | 19                       | 733                           | 14                       | 932                  | 14                       | 1405                  | 57                       |
| 711,063                              | 5                        | 104                                    | 15                       | 46                        | 4                        | 729                           | 16                       | 1,034                | 13                       | 1340                  | 100                      |
| 406,133                              | 22                       | 56                                     | 22                       | 20                        | 31                       | 302                           | 73                       | 665                  | 24                       | 1480                  | 21                       |
| 550,602                              | 12                       | 237                                    | 4                        | 45                        | 5                        | 881                           | 3                        | 1,208                | 8                        | 1425                  | 45                       |
| 687,363                              | 6                        | 44                                     | 30                       | 23                        | 25                       | 917                           | 1                        | 459                  | 42                       | 1440                  | 37                       |
| 373,210                              | 24                       | 45                                     | 28                       | 31                        | 9                        | 751                           | 11                       | 1,147                | 10                       | 1325                  | 112                      |
| 284,393                              | 32                       | 71                                     | 18                       | 26                        | 21                       | 829                           | 5                        | 740                  | 19                       | 1355                  | 88                       |
| 406,588                              | 21                       | 33                                     | 39                       | 13                        | 57                       | 886                           | 2                        | 665                  | 24                       | 1355                  | 88                       |
| 358,077                              | 25                       | 69                                     | 19                       | 23                        | 25                       | 531                           | 29                       | 525                  | 34                       | 1465                  | 25                       |
| 517,771                              | 14                       | 60                                     | 21                       | 29                        | 15                       | 430                           | 40                       | 753                  | 17                       | 1410                  | 55                       |
| 535,050                              | 13                       | 75                                     | 16                       | 27                        | 19                       | 423                           | 43                       | 431                  | 44                       | 1500                  | 9                        |
| 412,669                              | 20                       | 38                                     | 32                       | 26                        | 21                       | 514                           | 33                       | 743                  | 18                       | 1400                  | 60                       |
| 289,034                              | 30                       | 119                                    | 12                       | 26                        | 21                       | 528                           | 30                       | 1,267                | 7                        | 1365                  | 82                       |
| 423,913                              | 19                       | 69                                     | 19                       | 19                        | 36                       | 873                           | 4                        | 452                  | 43                       | 1355                  | 88                       |
| 326,263                              | 27                       | 124                                    | 9                        | 30                        | 11                       | 398                           | 49                       | 621                  | 27                       | 1505                  | 6                        |
| 132,774                              | 68                       | 35                                     | 34                       | 17                        | 39                       | 526                           | 31                       | 373                  | 49                       | 1465                  | 25                       |
| 287,998                              | 31                       | 45                                     | 28                       | 21                        | 29                       | 774                           | 8                        | 508                  | 35                       | 1275                  | 167                      |
| 226,809                              | 41                       | 34                                     | 37                       | 21                        | 29                       | 319                           | 69                       | 492                  | 39                       | 1500                  | 9                        |
| 153,738                              | 55                       | 30                                     | 42                       | 30                        | 11                       | 632                           | 20                       | 344                  | 53                       | 1260                  | 184                      |
| 142,451                              | 63                       | 29                                     | 44                       | 20                        | 31                       | 391                           | 51                       | 718                  | 20                       | 1350                  | 96                       |
| 444,877                              | 18                       | 3                                      | 124                      | 15                        | 47                       | 242                           | 90                       | 34                   | 189                      | 1500                  | 9                        |
| 513,958                              | 15                       | 33                                     | 39                       | 15                        | 47                       | 246                           | 87                       | 540                  | 33                       | 1435                  | 39                       |
| 190,858                              | 44                       | 28                                     | 45                       | 28                        | 17                       | 730                           | 15                       | 424                  | 45                       | 1295                  | 142                      |
| 182,539                              | 46                       | 48                                     | 27                       | 29                        | 15                       | 546                           | 27                       | 885                  | 16                       | 1280                  | 157                      |
| 215,212                              | 42                       | 50                                     | 26                       | 32                        | 8                        | 814                           | 7                        | 423                  | 46                       | 1340                  | 100                      |
| 240,241                              | 38                       | 116                                    | 13                       | 10                        | 75                       | 207                           | 104                      | 617                  | 28                       | 1555                  | 1                        |
| 289,665                              | 29                       | 27                                     | 46                       | 13                        | 57                       | 750                           | 12                       | 664                  | 26                       | 1360                  | 83                       |
| 266,131                              | 36                       | 24                                     | 50                       | 28                        | 17                       | 714                           | 17                       | 331                  | 56                       | 1245                  | 208                      |
| 279,890                              | 33                       | 15                                     | 63                       | 13                        | 57                       | 100                           | 177                      | 151                  | 101                      | 1490                  | 18                       |
| 160,405                              | 52                       | 22                                     | 56                       | 5                         | 119                      | 233                           | 92                       | 207                  | 87                       | 1500                  | 9                        |
| 177,728                              | 47                       | 15                                     | 63                       | 19                        | 36                       | 562                           | 24                       | 559                  | 32                       | 1210                  | 272                      |
| 152,798                              | 57                       | 27                                     | 46                       | 17                        | 39                       | 612                           | 21                       | 474                  | 40                       | 1380                  | 73                       |
| 342,867                              | 26                       | 22                                     | 56                       | 20                        | 31                       | 343                           | 60                       | 402                  | 47                       | 1415                  | 48                       |
| 239,379                              | 39                       | 24                                     | 50                       | 16                        | 43                       | 225                           | 97                       | 228                  | 78                       | 1485                  | 19                       |
| 158,539                              | 53                       | 24                                     | 50                       | 20                        | 31                       | 571                           | 23                       | 499                  | 37                       | 1340                  | 100                      |
| 152,940                              | 56                       | 38                                     | 32                       | 17                        | 39                       | 744                           | 13                       | 290                  | 61                       | 1300                  | 136                      |
| 150,237                              | 59                       | 41                                     | 31                       | 12                        | 62                       | 322                           | 68                       | 224                  | 79                       | 1500                  | 9                        |
| 182,898                              | 45                       | 53                                     | 23                       | 16                        | 43                       | 327                           | 66                       | 315                  | 59                       | 1345                  | 97                       |

## The Top American Research Universities

| Top American Research Universities (26-50)                    |                                                     |                                            | Research                     |                    |                                |                    | Private                        |                    |
|---------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------|------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|
| Institutions in Order of Top 26-50 Score, then Alphabetically |                                                     | Number of Measures in Top 26-50 Nationally | 2018 Total Research x \$1000 | 2018 National Rank | 2018 Federal Research x \$1000 | 2018 National Rank | 2019 Endowment Assets x \$1000 | 2019 National Rank |
| Private                                                       | Boston University                                   | 6                                          | 435,864                      | 56                 | 264,281                        | 50                 | 2,304,235                      | 45                 |
| Public                                                        | University of Arizona                               | 6                                          | 672,038                      | 33                 | 287,852                        | 45                 | 1,038,133                      | 108                |
| Public                                                        | University of Utah                                  | 5                                          | 534,208                      | 44                 | 302,586                        | 41                 | 1,225,045                      | 89                 |
| Public                                                        | Indiana University - Bloomington                    | 4                                          | 534,811                      | 43                 | 245,402                        | 55                 | 1,172,818                      | 92                 |
| Public                                                        | University of Colorado - Boulder                    | 4                                          | 488,883                      | 51                 | 376,870                        | 29                 | 705,656                        | 156                |
| Public                                                        | University of California - Irvine                   | 3                                          | 399,295                      | 60                 | 192,182                        | 66                 | 1,029,020                      | 109                |
| Public                                                        | University of Colorado - Denver/Anschutz Medical    | 3                                          | 517,749                      | 48                 | 326,254                        | 37                 | 552,885                        | 188                |
| Private                                                       | University of Rochester                             | 3                                          | 369,072                      | 66                 | 283,973                        | 46                 | 2,239,720                      | 47                 |
| Public                                                        | Virginia Polytechnic Institute and State University | 3                                          | 520,575                      | 47                 | 195,140                        | 64                 | 1,357,969                      | 81                 |
| Private                                                       | Case Western Reserve University                     | 2                                          | 430,379                      | 57                 | 346,935                        | 33                 | 1,866,500                      | 57                 |
| Private                                                       | Georgetown University                               | 2                                          | 192,160                      | 107                | 88,778                         | 110                | 1,822,484                      | 60                 |
| Public                                                        | University of Alabama - Birmingham                  | 2                                          | 575,060                      | 40                 | 370,401                        | 30                 | 519,025                        | 198                |
| Public                                                        | Florida State University                            | 1                                          | 260,486                      | 86                 | 129,435                        | 92                 | 704,106                        | 157                |
| Public                                                        | Iowa State University                               | 1                                          | 343,890                      | 72                 | 145,241                        | 83                 | 1,101,709                      | 100                |
| Private                                                       | Northeastern University                             | 1                                          | 156,546                      | 125                | 109,443                        | 99                 | 1,055,474                      | 106                |
| Private                                                       | Rensselaer Polytechnic Institute                    | 1                                          | 94,221                       | 158                | 46,385                         | 156                | 739,648                        | 147                |
| Private                                                       | Tufts University                                    | 1                                          | 197,478                      | 105                | 128,404                        | 93                 | 1,867,962                      | 56                 |
| Private                                                       | Tulane University                                   | 1                                          | 179,813                      | 112                | 102,090                        | 104                | 1,429,707                      | 72                 |
| Public                                                        | University at Buffalo                               | 1                                          | 393,241                      | 62                 | 183,124                        | 69                 | 794,895                        | 134                |
| Public                                                        | University of Connecticut - Storrs                  | 1                                          | 163,543                      | 120                | 88,586                         | 111                | 353,994                        | 247                |
| Public                                                        | University of Georgia                               | 1                                          | 390,773                      | 63                 | 144,926                        | 84                 | 1,343,987                      | 82                 |
| Public                                                        | University of Iowa                                  | 1                                          | 484,253                      | 52                 | 243,216                        | 57                 | 1,578,933                      | 68                 |
| Public                                                        | University of Kansas - Lawrence                     | 1                                          | 177,249                      | 114                | 85,397                         | 119                | 1,419,568                      | 73                 |
| Public                                                        | University of Massachusetts - Amherst               | 1                                          | 193,495                      | 106                | 103,555                        | 103                | 367,075                        | 239                |
| Private                                                       | University of Miami                                 | 1                                          | 355,132                      | 69                 | 191,408                        | 67                 | 997,413                        | 112                |
| Public                                                        | University of Missouri - Columbia                   | 1                                          | 245,600                      | 90                 | 108,254                        | 100                | 1,052,760                      | 107                |
| Public                                                        | University of Oregon                                | 1                                          | 83,132                       | 165                | 56,403                         | 143                | 1,131,111                      | 95                 |
| Public                                                        | University of South Carolina - Columbia             | 1                                          | 199,483                      | 104                | 88,117                         | 113                | 713,376                        | 153                |
| Public                                                        | University of South Florida - Tampa                 | 1                                          | 524,744                      | 46                 | 245,414                        | 54                 | 513,545                        | 199                |

## The Top American Research Universities

| Support                              |                          | Faculty                                |                          |                           |                          | Advanced Training             |                          |                      |                          | Undergraduate         |                          |
|--------------------------------------|--------------------------|----------------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------|--------------------------|----------------------|--------------------------|-----------------------|--------------------------|
| 2019<br>Annual<br>Giving<br>x \$1000 | 2019<br>National<br>Rank | 2019<br>National<br>Academy<br>Members | 2019<br>National<br>Rank | 2019<br>Faculty<br>Awards | 2019<br>National<br>Rank | 2019<br>Doctorates<br>Granted | 2019<br>National<br>Rank | 2018<br>Post<br>Docs | 2018<br>National<br>Rank | 2018<br>Median<br>SAT | 2018<br>National<br>Rank |
| 170,862                              | 50                       | 21                                     | 59                       | 14                        | 52                       | 491                           | 35                       | 367                  | 50                       | 1415                  | 48                       |
| 244,738                              | 37                       | 32                                     | 41                       | 11                        | 68                       | 448                           | 38                       | 497                  | 38                       | 1195                  | 306                      |
| 279,746                              | 34                       | 24                                     | 50                       | 15                        | 47                       | 376                           | 54                       | 362                  | 51                       | 1225                  | 245                      |
| 236,740                              | 40                       | 16                                     | 62                       | 10                        | 75                       | 504                           | 34                       | 399                  | 48                       | 1255                  | 198                      |
| 136,225                              | 67                       | 34                                     | 37                       | 19                        | 36                       | 409                           | 47                       | 284                  | 65                       | 1255                  | 198                      |
| 115,600                              | 77                       | 35                                     | 34                       | 17                        | 39                       | 407                           | 48                       | 341                  | 54                       | 1300                  | 136                      |
| 175,877                              | 48                       | 14                                     | 66                       | 7                         | 97                       | 206                           | 107                      | 331                  | 56                       | 1115                  | 633                      |
| 117,629                              | 75                       | 19                                     | 61                       | 16                        | 43                       | 253                           | 82                       | 218                  | 82                       | 1410                  | 55                       |
| 119,795                              | 73                       | 12                                     | 71                       | 16                        | 43                       | 469                           | 37                       | 218                  | 82                       | 1285                  | 154                      |
| 112,286                              | 81                       | 20                                     | 60                       | 12                        | 62                       | 207                           | 104                      | 189                  | 92                       | 1430                  | 40                       |
| 172,119                              | 49                       | 11                                     | 74                       | 6                         | 108                      | 123                           | 157                      | 112                  | 122                      | 1450                  | 29                       |
| 90,237                               | 101                      | 8                                      | 90                       | 1                         | 280                      | 146                           | 133                      | 234                  | 77                       | 1210                  | 272                      |
| 92,895                               | 100                      | 8                                      | 90                       | 14                        | 52                       | 422                           | 44                       | 242                  | 73                       | 1275                  | 167                      |
| 122,717                              | 71                       | 8                                      | 90                       | 12                        | 62                       | 416                           | 46                       | 323                  | 58                       | 1210                  | 272                      |
| 82,655                               | 108                      | 5                                      | 107                      | 11                        | 68                       | 200                           | 110                      | 154                  | 98                       | 1460                  | 28                       |
| 57,776                               | 132                      | 7                                      | 95                       | 5                         | 119                      | 148                           | 132                      | 94                   | 129                      | 1415                  | 48                       |
| 85,612                               | 106                      | 8                                      | 90                       | 3                         | 160                      | 141                           | 137                      | 258                  | 72                       | 1445                  | 31                       |
| 109,091                              | 85                       | 3                                      | 124                      | 5                         | 119                      | 125                           | 155                      | 115                  | 118                      | 1415                  | 48                       |
| 58,842                               | 130                      | 7                                      | 95                       | 15                        | 47                       | 387                           | 52                       | 277                  | 66                       | 1245                  | 208                      |
| 55,552                               | 139                      | 1                                      | 159                      | 15                        | 47                       | 334                           | 64                       | 113                  | 121                      | 1315                  | 122                      |
| 142,504                              | 62                       | 9                                      | 83                       | 13                        | 57                       | 488                           | 36                       | 236                  | 76                       | 1325                  | 112                      |
| 144,574                              | 61                       | 23                                     | 54                       | 11                        | 68                       | 418                           | 45                       | 362                  | 51                       | 1225                  | 245                      |
| 208,245                              | 43                       | 5                                      | 107                      | 9                         | 83                       | 317                           | 70                       | 99                   | 126                      | 1240                  | 213                      |
| 41,175                               | 171                      | 9                                      | 83                       | 20                        | 31                       | 350                           | 58                       | 153                  | 99                       | 1295                  | 142                      |
| 294,135                              | 28                       | 12                                     | 71                       | 6                         | 108                      | 195                           | 112                      | 259                  | 71                       | 1340                  | 100                      |
| 100,290                              | 91                       | 10                                     | 78                       | 9                         | 83                       | 426                           | 42                       | 199                  | 89                       | 1240                  | 213                      |
| 279,154                              | 35                       | 11                                     | 74                       | 7                         | 97                       | 183                           | 117                      | 69                   | 146                      | 1185                  | 338                      |
| 104,246                              | 88                       | 1                                      | 159                      | 6                         | 108                      | 431                           | 39                       | 114                  | 119                      | 1275                  | 167                      |
| 65,533                               | 122                      | 10                                     | 78                       | 13                        | 57                       | 373                           | 55                       | 307                  | 60                       | 1250                  | 205                      |

## The Top American Research Universities

| Top Private Research Universities (1-25)                                         |                                       |                                      |                                         | Research                     |                   |                                |                   | Private                        |                   |
|----------------------------------------------------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------------|------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
| Institutions in Order of Top 25 Score, then Top 26-50 Score, then Alphabetically |                                       | Number of Measures in Top 25 Control | Number of Measures in Top 26-50 Control | 2018 Total Research x \$1000 | 2018 Control Rank | 2018 Federal Research x \$1000 | 2018 Control Rank | 2019 Endowment Assets x \$1000 | 2019 Control Rank |
| Private                                                                          | Columbia University                   | 9                                    | 0                                       | 908,771                      | 7                 | 673,792                        | 3                 | 10,950,738                     | 9                 |
| Private                                                                          | Cornell University                    | 9                                    | 0                                       | 630,255                      | 16                | 297,855                        | 18                | 5,803,967                      | 17                |
| Private                                                                          | Duke University                       | 9                                    | 0                                       | 1,153,947                    | 3                 | 644,179                        | 5                 | 8,609,004                      | 10                |
| Private                                                                          | Harvard University                    | 9                                    | 0                                       | 1,066,612                    | 5                 | 578,722                        | 6                 | 39,427,896                     | 1                 |
| Private                                                                          | Johns Hopkins University              | 9                                    | 0                                       | 2,656,152                    | 1                 | 2,246,705                      | 1                 | 6,275,939                      | 15                |
| Private                                                                          | Massachusetts Institute of Technology | 9                                    | 0                                       | 893,508                      | 8                 | 476,576                        | 10                | 17,569,328                     | 5                 |
| Private                                                                          | Northwestern University               | 9                                    | 0                                       | 776,458                      | 12                | 464,689                        | 11                | 11,091,516                     | 8                 |
| Private                                                                          | Stanford University                   | 9                                    | 0                                       | 1,106,314                    | 4                 | 685,871                        | 2                 | 27,699,834                     | 3                 |
| Private                                                                          | University of Chicago                 | 9                                    | 0                                       | 412,791                      | 20                | 297,824                        | 19                | 8,263,868                      | 11                |
| Private                                                                          | University of Pennsylvania            | 9                                    | 0                                       | 1,304,291                    | 2                 | 671,796                        | 4                 | 14,649,762                     | 6                 |
| Private                                                                          | Vanderbilt University                 | 9                                    | 0                                       | 702,128                      | 13                | 456,599                        | 12                | 6,270,877                      | 16                |
| Private                                                                          | Washington University in St. Louis    | 9                                    | 0                                       | 797,267                      | 11                | 496,648                        | 8                 | 7,953,986                      | 12                |
| Private                                                                          | Yale University                       | 9                                    | 0                                       | 972,856                      | 6                 | 549,026                        | 7                 | 30,314,800                     | 2                 |
| Private                                                                          | Emory University                      | 8                                    | 1                                       | 693,172                      | 14                | 392,971                        | 15                | 7,872,381                      | 13                |
| Private                                                                          | University of Southern California     | 8                                    | 1                                       | 854,673                      | 9                 | 488,081                        | 9                 | 5,732,101                      | 18                |
| Private                                                                          | New York University                   | 8                                    | 0                                       | 801,961                      | 10                | 395,445                        | 14                | 4,345,608                      | 20                |
| Private                                                                          | California Institute of Technology    | 7                                    | 2                                       | 363,007                      | 24                | 268,765                        | 21                | 2,975,376                      | 22                |
| Private                                                                          | Princeton University                  | 7                                    | 2                                       | 351,594                      | 27                | 179,659                        | 27                | 26,116,023                     | 4                 |
| Private                                                                          | Boston University                     | 6                                    | 3                                       | 435,864                      | 18                | 264,281                        | 23                | 2,304,235                      | 29                |
| Private                                                                          | Brown University                      | 5                                    | 4                                       | 233,689                      | 32                | 161,384                        | 30                | 3,976,694                      | 21                |
| Private                                                                          | Carnegie Mellon University            | 5                                    | 4                                       | 318,218                      | 28                | 181,958                        | 26                | 2,542,650                      | 24                |
| Private                                                                          | University of Notre Dame              | 5                                    | 2                                       | 190,469                      | 38                | 92,144                         | 39                | 11,268,365                     | 7                 |
| Private                                                                          | Dartmouth College                     | 4                                    | 4                                       | 287,951                      | 30                | 139,692                        | 33                | 5,731,322                      | 19                |
| Private                                                                          | University of Rochester               | 4                                    | 4                                       | 369,072                      | 23                | 283,973                        | 20                | 2,239,720                      | 31                |
| Private                                                                          | Case Western Reserve University       | 3                                    | 6                                       | 430,379                      | 19                | 346,935                        | 16                | 1,866,500                      | 38                |
| Private                                                                          | University of Miami                   | 3                                    | 4                                       | 355,132                      | 25                | 191,408                        | 25                | 997,413                        | 67                |
| Private                                                                          | Rice University                       | 2                                    | 7                                       | 157,352                      | 40                | 77,607                         | 43                | 6,481,102                      | 14                |
| Private                                                                          | Georgetown University                 | 1                                    | 7                                       | 192,160                      | 36                | 88,778                         | 40                | 1,822,484                      | 39                |
| Private                                                                          | Drexel University                     | 1                                    | 5                                       | 148,107                      | 43                | 80,074                         | 42                | 813,685                        | 84                |
| Private                                                                          | Yeshiva University                    | 1                                    | 3                                       | 300,630                      | 29                | 197,140                        | 24                | 665,001                        | 105               |

## The Top American Research Universities

| Support                              |                         | Faculty                                |                         |                           |                         | Advanced Training             |                         |                      |                         | Undergraduate         |                         |
|--------------------------------------|-------------------------|----------------------------------------|-------------------------|---------------------------|-------------------------|-------------------------------|-------------------------|----------------------|-------------------------|-----------------------|-------------------------|
| 2019<br>Annual<br>Giving<br>x \$1000 | 2019<br>Control<br>Rank | 2019<br>National<br>Academy<br>Members | 2019<br>Control<br>Rank | 2019<br>Faculty<br>Awards | 2019<br>Control<br>Rank | 2019<br>Doctorates<br>Granted | 2019<br>Control<br>Rank | 2018<br>Post<br>Docs | 2018<br>Control<br>Rank | 2018<br>Median<br>SAT | 2018<br>Control<br>Rank |
| 668,002                              | 5                       | 144                                    | 4                       | 41                        | 3                       | 576                           | 6                       | 1,294                | 5                       | 1505                  | 6                       |
| 358,077                              | 16                      | 69                                     | 12                      | 23                        | 11                      | 531                           | 10                      | 525                  | 18                      | 1465                  | 25                      |
| 507,090                              | 12                      | 73                                     | 11                      | 22                        | 14                      | 551                           | 7                       | 671                  | 11                      | 1500                  | 9                       |
| 1,378,968                            | 2                       | 428                                    | 1                       | 76                        | 1                       | 771                           | 2                       | 6,024                | 1                       | 1520                  | 4                       |
| 2,665,590                            | 1                       | 120                                    | 8                       | 23                        | 11                      | 537                           | 9                       | 1,786                | 3                       | 1500                  | 9                       |
| 594,564                              | 8                       | 283                                    | 3                       | 30                        | 6                       | 687                           | 4                       | 1,413                | 4                       | 1535                  | 2                       |
| 390,138                              | 15                      | 53                                     | 15                      | 30                        | 6                       | 518                           | 11                      | 920                  | 8                       | 1500                  | 9                       |
| 1,112,229                            | 3                       | 336                                    | 2                       | 51                        | 2                       | 770                           | 3                       | 2,304                | 2                       | 1495                  | 17                      |
| 535,050                              | 9                       | 75                                     | 10                      | 27                        | 10                      | 423                           | 15                      | 431                  | 23                      | 1500                  | 9                       |
| 626,235                              | 7                       | 136                                    | 5                       | 41                        | 3                       | 548                           | 8                       | 1,141                | 7                       | 1485                  | 19                      |
| 226,809                              | 22                      | 34                                     | 19                      | 21                        | 15                      | 319                           | 19                      | 492                  | 20                      | 1500                  | 9                       |
| 406,133                              | 14                      | 56                                     | 14                      | 20                        | 16                      | 302                           | 20                      | 665                  | 13                      | 1480                  | 21                      |
| 657,109                              | 6                       | 129                                    | 6                       | 31                        | 5                       | 430                           | 13                      | 1,186                | 6                       | 1515                  | 5                       |
| 513,958                              | 11                      | 33                                     | 20                      | 15                        | 19                      | 246                           | 24                      | 540                  | 17                      | 1435                  | 38                      |
| 687,363                              | 4                       | 44                                     | 17                      | 23                        | 11                      | 917                           | 1                       | 459                  | 22                      | 1440                  | 36                      |
| 517,771                              | 10                      | 60                                     | 13                      | 29                        | 9                       | 430                           | 13                      | 753                  | 9                       | 1410                  | 51                      |
| 240,241                              | 20                      | 116                                    | 9                       | 10                        | 27                      | 207                           | 30                      | 617                  | 15                      | 1555                  | 1                       |
| 326,263                              | 17                      | 124                                    | 7                       | 30                        | 6                       | 398                           | 16                      | 621                  | 14                      | 1505                  | 6                       |
| 170,862                              | 24                      | 21                                     | 28                      | 14                        | 21                      | 491                           | 12                      | 367                  | 24                      | 1415                  | 45                      |
| 239,379                              | 21                      | 24                                     | 24                      | 16                        | 17                      | 225                           | 28                      | 228                  | 29                      | 1485                  | 19                      |
| 150,237                              | 28                      | 41                                     | 18                      | 12                        | 23                      | 322                           | 18                      | 224                  | 30                      | 1500                  | 9                       |
| 444,877                              | 13                      | 3                                      | 51                      | 15                        | 19                      | 242                           | 25                      | 34                   | 59                      | 1500                  | 9                       |
| 279,890                              | 19                      | 15                                     | 31                      | 13                        | 22                      | 100                           | 60                      | 151                  | 37                      | 1490                  | 18                      |
| 117,629                              | 29                      | 19                                     | 30                      | 16                        | 17                      | 253                           | 22                      | 218                  | 31                      | 1410                  | 51                      |
| 112,286                              | 31                      | 20                                     | 29                      | 12                        | 23                      | 207                           | 30                      | 189                  | 34                      | 1430                  | 39                      |
| 294,135                              | 18                      | 12                                     | 33                      | 6                         | 34                      | 195                           | 33                      | 259                  | 26                      | 1340                  | 82                      |
| 160,405                              | 26                      | 22                                     | 26                      | 5                         | 37                      | 233                           | 27                      | 207                  | 33                      | 1500                  | 9                       |
| 172,119                              | 23                      | 11                                     | 34                      | 6                         | 34                      | 123                           | 52                      | 112                  | 44                      | 1450                  | 28                      |
| 55,737                               | 54                      | 6                                      | 39                      | 12                        | 23                      | 223                           | 29                      | 88                   | 50                      | 1275                  | 120                     |
| 31,379                               | 85                      | 13                                     | 32                      | 3                         | 53                      | 91                            | 67                      | 241                  | 28                      | 1240                  | 146                     |

## The Top American Research Universities

| Top Private Research Universities (26-50)                     |                                  |                                         | Research                     |                   |                                |                   | Private                        |                   |
|---------------------------------------------------------------|----------------------------------|-----------------------------------------|------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
| Institutions in Order of Top 26-50 Score, then Alphabetically |                                  | Number of Measures in Top 26-50 Control | 2018 Total Research x \$1000 | 2018 Control Rank | 2018 Federal Research x \$1000 | 2018 Control Rank | 2019 Endowment Assets x \$1000 | 2019 Control Rank |
| Private                                                       | George Washington University     | 8                                       | 242,029                      | 31                | 153,412                        | 32                | 1,778,559                      | 40                |
| Private                                                       | Northeastern University          | 8                                       | 156,546                      | 41                | 109,443                        | 37                | 1,055,474                      | 64                |
| Private                                                       | Rensselaer Polytechnic Institute | 8                                       | 94,221                       | 46                | 46,385                         | 47                | 739,648                        | 93                |
| Private                                                       | Tufts University                 | 8                                       | 197,478                      | 35                | 128,404                        | 35                | 1,867,962                      | 37                |
| Private                                                       | Tulane University                | 8                                       | 179,813                      | 39                | 102,090                        | 38                | 1,429,707                      | 46                |
| Private                                                       | Wake Forest University           | 7                                       | 190,991                      | 37                | 154,031                        | 31                | 1,375,398                      | 49                |
| Private                                                       | University of Dayton             | 2                                       | 143,636                      | 44                | 130,488                        | 34                | 604,176                        | 109               |

| Support                              |                         | Faculty                                |                         |                           |                         | Advanced Training             |                         |                      |                         | Undergraduate         |                         |
|--------------------------------------|-------------------------|----------------------------------------|-------------------------|---------------------------|-------------------------|-------------------------------|-------------------------|----------------------|-------------------------|-----------------------|-------------------------|
| 2019<br>Annual<br>Giving<br>x \$1000 | 2019<br>Control<br>Rank | 2019<br>National<br>Academy<br>Members | 2019<br>Control<br>Rank | 2019<br>Faculty<br>Awards | 2019<br>Control<br>Rank | 2019<br>Doctorates<br>Granted | 2019<br>Control<br>Rank | 2018<br>Post<br>Docs | 2018<br>Control<br>Rank | 2018<br>Median<br>SAT | 2018<br>Control<br>Rank |
| 113,273                              | 30                      | 10                                     | 35                      | 9                         | 29                      | 240                           | 26                      | 95                   | 46                      | 1370                  | 68                      |
| 82,655                               | 42                      | 5                                      | 43                      | 11                        | 26                      | 200                           | 32                      | 154                  | 36                      | 1460                  | 27                      |
| 57,776                               | 50                      | 7                                      | 38                      | 5                         | 37                      | 148                           | 40                      | 94                   | 47                      | 1415                  | 45                      |
| 85,612                               | 41                      | 8                                      | 37                      | 3                         | 53                      | 141                           | 42                      | 258                  | 27                      | 1445                  | 30                      |
| 109,091                              | 33                      | 3                                      | 51                      | 5                         | 37                      | 125                           | 50                      | 115                  | 43                      | 1415                  | 45                      |
| 110,854                              | 32                      | 6                                      | 39                      | 4                         | 42                      | 54                            | 98                      | 129                  | 42                      |                       |                         |
| 27,671                               | 99                      | 0                                      | 89                      | 1                         | 106                     | 46                            | 109                     | 11                   | 80                      | 1280                  | 113                     |

## The Top American Research Universities

| Top Public Research Universities (1-25)                                          |                                            |                                      |                                         | Research                     |                   |                                |                   | Private                        |                   |
|----------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------|-----------------------------------------|------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
| Institutions in Order of Top 25 Score, then Top 26-50 Score, then Alphabetically |                                            | Number of Measures in Top 25 Control | Number of Measures in Top 26-50 Control | 2018 Total Research x \$1000 | 2018 Control Rank | 2018 Federal Research x \$1000 | 2018 Control Rank | 2019 Endowment Assets x \$1000 | 2019 Control Rank |
| Public                                                                           | University of California - Berkeley        | 9                                    | 0                                       | 747,690                      | 17                | 324,521                        | 22                | 4,903,675                      | 6                 |
| Public                                                                           | University of California - Los Angeles     | 9                                    | 0                                       | 1,242,619                    | 5                 | 557,986                        | 8                 | 4,902,768                      | 7                 |
| Public                                                                           | University of California - San Diego       | 9                                    | 0                                       | 1,256,171                    | 4                 | 634,676                        | 7                 | 1,746,546                      | 22                |
| Public                                                                           | University of Illinois - Urbana-Champaign  | 9                                    | 0                                       | 609,984                      | 22                | 339,732                        | 19                | 1,857,157                      | 20                |
| Public                                                                           | University of Michigan - Ann Arbor         | 9                                    | 0                                       | 1,493,353                    | 2                 | 841,158                        | 2                 | 12,448,817                     | 3                 |
| Public                                                                           | University of Minnesota - Twin Cities      | 9                                    | 0                                       | 915,798                      | 10                | 455,294                        | 11                | 3,951,464                      | 9                 |
| Public                                                                           | University of North Carolina - Chapel Hill | 9                                    | 0                                       | 1,094,063                    | 7                 | 681,581                        | 3                 | 3,671,351                      | 11                |
| Public                                                                           | University of Texas - Austin               | 9                                    | 0                                       | 617,567                      | 21                | 386,954                        | 13                | 13,817,599                     | 1                 |
| Public                                                                           | University of Washington - Seattle         | 9                                    | 0                                       | 1,342,509                    | 3                 | 955,518                        | 1                 | 2,935,220                      | 14                |
| Public                                                                           | University of Wisconsin - Madison          | 9                                    | 0                                       | 1,113,968                    | 6                 | 555,666                        | 9                 | 3,553,672                      | 12                |
| Public                                                                           | Ohio State University - Columbus           | 8                                    | 1                                       | 818,428                      | 14                | 439,594                        | 12                | 5,256,759                      | 5                 |
| Public                                                                           | Texas A&M University - College Station     | 8                                    | 1                                       | 882,191                      | 11                | 316,771                        | 23                | 12,736,450                     | 2                 |
| Public                                                                           | University of California - Davis           | 8                                    | 1                                       | 774,775                      | 16                | 354,823                        | 16                | 1,670,738                      | 23                |
| Public                                                                           | University of Florida                      | 8                                    | 1                                       | 831,362                      | 13                | 340,725                        | 18                | 1,825,250                      | 21                |
| Public                                                                           | Georgia Institute of Technology            | 7                                    | 2                                       | 859,009                      | 12                | 646,317                        | 5                 | 2,169,005                      | 17                |
| Public                                                                           | Purdue University - West Lafayette         | 7                                    | 2                                       | 535,826                      | 25                | 230,208                        | 36                | 2,625,278                      | 15                |
| Public                                                                           | University of Pittsburgh - Pittsburgh      | 7                                    | 2                                       | 995,762                      | 8                 | 643,129                        | 6                 | 4,311,387                      | 8                 |
| Public                                                                           | Michigan State University                  | 7                                    | 1                                       | 673,959                      | 18                | 315,674                        | 24                | 3,404,779                      | 13                |
| Public                                                                           | Pennsylvania State Univ. - Univ. Park      | 6                                    | 2                                       | 783,960                      | 15                | 501,784                        | 10                | 2,549,603                      | 16                |
| Public                                                                           | University of Maryland - College Park      | 6                                    | 2                                       | 529,200                      | 28                | 351,952                        | 17                | 652,556                        | 60                |
| Public                                                                           | Rutgers University - New Brunswick         | 5                                    | 4                                       | 666,368                      | 20                | 330,823                        | 20                | 1,253,185                      | 34                |
| Public                                                                           | University of Virginia                     | 5                                    | 4                                       | 490,902                      | 33                | 231,161                        | 35                | 7,058,235                      | 4                 |
| Public                                                                           | North Carolina State University            | 4                                    | 5                                       | 497,851                      | 32                | 214,440                        | 38                | 1,400,655                      | 30                |
| Public                                                                           | Arizona State University                   | 4                                    | 4                                       | 559,391                      | 24                | 244,795                        | 33                | 922,103                        | 48                |
| Public                                                                           | University of Arizona                      | 4                                    | 4                                       | 672,038                      | 19                | 287,852                        | 26                | 1,038,133                      | 44                |
| Public                                                                           | Indiana University - Bloomington           | 3                                    | 5                                       | 534,811                      | 26                | 245,402                        | 32                | 1,172,818                      | 38                |
| Public                                                                           | University of Colorado - Boulder           | 3                                    | 4                                       | 488,883                      | 34                | 376,870                        | 14                | 705,656                        | 57                |
| Public                                                                           | University of California - Santa Barbara   | 3                                    | 3                                       | 223,349                      | 65                | 110,065                        | 62                | 263,100                        | 118               |
| Public                                                                           | University of California - Irvine          | 2                                    | 7                                       | 399,295                      | 39                | 192,182                        | 42                | 1,029,020                      | 45                |
| Public                                                                           | University of Georgia                      | 2                                    | 6                                       | 390,773                      | 41                | 144,926                        | 52                | 1,343,987                      | 33                |
| Public                                                                           | University of Utah                         | 2                                    | 6                                       | 534,208                      | 27                | 302,586                        | 25                | 1,225,045                      | 36                |
| Public                                                                           | University of Alabama - Birmingham         | 2                                    | 1                                       | 575,060                      | 23                | 370,401                        | 15                | 519,025                        | 80                |
| Public                                                                           | University of Iowa                         | 1                                    | 7                                       | 484,253                      | 35                | 243,216                        | 34                | 1,578,933                      | 24                |
| Public                                                                           | Virginia Polytechnic Inst. and St. Univ.   | 1                                    | 7                                       | 520,575                      | 30                | 195,140                        | 40                | 1,357,969                      | 32                |
| Public                                                                           | Stony Brook University                     | 1                                    | 4                                       | 240,949                      | 62                | 134,802                        | 56                | 341,878                        | 101               |
| Public                                                                           | U. of Colorado - Denver/Anschutz Med.      | 1                                    | 4                                       | 517,749                      | 31                | 326,254                        | 21                | 552,885                        | 75                |
| Public                                                                           | University of Massachusetts - Amherst      | 1                                    | 3                                       | 193,495                      | 71                | 103,555                        | 66                | 367,075                        | 95                |
| Public                                                                           | University of Oregon                       | 1                                    | 2                                       | 83,132                       | 118               | 56,403                         | 97                | 1,131,111                      | 39                |
| Public                                                                           | University of Delaware                     | 1                                    | 1                                       | 179,560                      | 74                | 113,582                        | 61                | 1,466,070                      | 25                |
| Public                                                                           | University of Kansas - Lawrence            | 1                                    | 1                                       | 177,249                      | 75                | 85,397                         | 78                | 1,419,568                      | 27                |
| Public                                                                           | Virginia Commonwealth University           | 1                                    | 1                                       | 222,757                      | 66                | 122,771                        | 60                | 2,042,520                      | 18                |

## The Top American Research Universities

| Support                              |                         | Faculty                                |                         |                           |                         | Advanced Training             |                         |                      |                         | Undergraduate         |                         |
|--------------------------------------|-------------------------|----------------------------------------|-------------------------|---------------------------|-------------------------|-------------------------------|-------------------------|----------------------|-------------------------|-----------------------|-------------------------|
| 2019<br>Annual<br>Giving<br>x \$1000 | 2019<br>Control<br>Rank | 2019<br>National<br>Academy<br>Members | 2019<br>Control<br>Rank | 2019<br>Faculty<br>Awards | 2019<br>Control<br>Rank | 2019<br>Doctorates<br>Granted | 2019<br>Control<br>Rank | 2018<br>Post<br>Docs | 2018<br>Control<br>Rank | 2018<br>Median<br>SAT | 2018<br>Control<br>Rank |
| 550,602                              | 4                       | 237                                    | 1                       | 45                        | 3                       | 881                           | 2                       | 1,208                | 3                       | 1425                  | 2                       |
| 733,013                              | 1                       | 109                                    | 5                       | 27                        | 10                      | 733                           | 11                      | 932                  | 7                       | 1405                  | 5                       |
| 289,034                              | 12                      | 119                                    | 4                       | 26                        | 11                      | 528                           | 20                      | 1,267                | 2                       | 1365                  | 12                      |
| 215,212                              | 20                      | 50                                     | 10                      | 32                        | 4                       | 814                           | 6                       | 423                  | 23                      | 1340                  | 19                      |
| 500,987                              | 5                       | 120                                    | 3                       | 56                        | 1                       | 827                           | 5                       | 1,350                | 1                       | 1420                  | 3                       |
| 373,210                              | 9                       | 45                                     | 12                      | 31                        | 5                       | 751                           | 8                       | 1,147                | 4                       | 1325                  | 25                      |
| 412,669                              | 7                       | 38                                     | 14                      | 26                        | 11                      | 514                           | 22                      | 743                  | 9                       | 1400                  | 6                       |
| 423,913                              | 6                       | 69                                     | 8                       | 19                        | 20                      | 873                           | 3                       | 452                  | 21                      | 1355                  | 14                      |
| 711,063                              | 2                       | 104                                    | 6                       | 46                        | 2                       | 729                           | 13                      | 1,034                | 6                       | 1340                  | 19                      |
| 284,393                              | 14                      | 71                                     | 7                       | 26                        | 11                      | 829                           | 4                       | 740                  | 10                      | 1355                  | 14                      |
| 406,588                              | 8                       | 33                                     | 20                      | 13                        | 36                      | 886                           | 1                       | 665                  | 12                      | 1355                  | 14                      |
| 287,998                              | 13                      | 45                                     | 12                      | 21                        | 15                      | 774                           | 7                       | 508                  | 17                      | 1275                  | 48                      |
| 182,539                              | 24                      | 48                                     | 11                      | 29                        | 7                       | 546                           | 19                      | 885                  | 8                       | 1280                  | 45                      |
| 289,665                              | 11                      | 27                                     | 25                      | 13                        | 36                      | 750                           | 9                       | 664                  | 13                      | 1360                  | 13                      |
| 132,774                              | 40                      | 35                                     | 16                      | 17                        | 23                      | 526                           | 21                      | 373                  | 26                      | 1465                  | 1                       |
| 190,858                              | 22                      | 28                                     | 24                      | 28                        | 8                       | 730                           | 12                      | 424                  | 22                      | 1295                  | 38                      |
| 142,451                              | 35                      | 29                                     | 23                      | 20                        | 16                      | 391                           | 35                      | 718                  | 11                      | 1350                  | 17                      |
| 177,728                              | 25                      | 15                                     | 33                      | 19                        | 20                      | 562                           | 18                      | 559                  | 16                      | 1210                  | 87                      |
| 153,738                              | 28                      | 30                                     | 22                      | 30                        | 6                       | 632                           | 15                      | 344                  | 29                      | 1260                  | 54                      |
| 152,798                              | 30                      | 27                                     | 25                      | 17                        | 23                      | 612                           | 16                      | 474                  | 20                      | 1380                  | 9                       |
| 152,940                              | 29                      | 38                                     | 14                      | 17                        | 23                      | 744                           | 10                      | 290                  | 37                      | 1300                  | 35                      |
| 342,867                              | 10                      | 22                                     | 31                      | 20                        | 16                      | 343                           | 44                      | 402                  | 24                      | 1415                  | 4                       |
| 158,539                              | 27                      | 24                                     | 27                      | 20                        | 16                      | 571                           | 17                      | 499                  | 18                      | 1340                  | 19                      |
| 266,131                              | 17                      | 24                                     | 27                      | 28                        | 8                       | 714                           | 14                      | 331                  | 32                      | 1245                  | 65                      |
| 244,738                              | 18                      | 32                                     | 21                      | 11                        | 43                      | 448                           | 26                      | 497                  | 19                      | 1195                  | 102                     |
| 236,740                              | 19                      | 16                                     | 32                      | 10                        | 49                      | 504                           | 23                      | 399                  | 25                      | 1255                  | 59                      |
| 136,225                              | 39                      | 34                                     | 19                      | 19                        | 20                      | 409                           | 32                      | 284                  | 41                      | 1255                  | 59                      |
| 182,898                              | 23                      | 53                                     | 9                       | 16                        | 27                      | 327                           | 49                      | 315                  | 35                      | 1345                  | 18                      |
| 115,600                              | 48                      | 35                                     | 16                      | 17                        | 23                      | 407                           | 33                      | 341                  | 30                      | 1300                  | 35                      |
| 142,504                              | 34                      | 9                                      | 47                      | 13                        | 36                      | 488                           | 24                      | 236                  | 48                      | 1325                  | 25                      |
| 279,746                              | 15                      | 24                                     | 27                      | 15                        | 29                      | 376                           | 38                      | 362                  | 27                      | 1225                  | 77                      |
| 90,237                               | 63                      | 8                                      | 54                      | 1                         | 175                     | 146                           | 93                      | 234                  | 49                      | 1210                  | 87                      |
| 144,574                              | 33                      | 23                                     | 30                      | 11                        | 43                      | 418                           | 30                      | 362                  | 27                      | 1225                  | 77                      |
| 119,795                              | 45                      | 12                                     | 39                      | 16                        | 27                      | 469                           | 25                      | 218                  | 52                      | 1285                  | 43                      |
| 68,501                               | 73                      | 14                                     | 35                      | 10                        | 49                      | 367                           | 40                      | 274                  | 43                      | 1325                  | 25                      |
| 175,877                              | 26                      | 14                                     | 35                      | 7                         | 66                      | 206                           | 76                      | 331                  | 32                      | 1115                  | 231                     |
| 41,175                               | 101                     | 9                                      | 47                      | 20                        | 16                      | 350                           | 42                      | 153                  | 63                      | 1295                  | 38                      |
| 279,154                              | 16                      | 11                                     | 41                      | 7                         | 66                      | 183                           | 82                      | 69                   | 96                      | 1185                  | 113                     |
| 64,419                               | 77                      | 9                                      | 47                      | 4                         | 90                      | 263                           | 59                      | 160                  | 62                      | 1255                  | 59                      |
| 208,245                              | 21                      | 5                                      | 65                      | 9                         | 55                      | 317                           | 51                      | 99                   | 82                      | 1240                  | 68                      |
| 82,365                               | 67                      | 7                                      | 58                      | 7                         | 66                      | 353                           | 41                      | 204                  | 55                      | 1165                  | 145                     |

## The Top American Research Universities

| Top Public Research Universities (26-50)                      |                                           |                                         | Research                     |                   |                                |                   | Private                        |                   |
|---------------------------------------------------------------|-------------------------------------------|-----------------------------------------|------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
| Institutions in Order of Top 26-50 Score, then Alphabetically |                                           | Number of Measures in Top 26-50 Control | 2018 Total Research x \$1000 | 2018 Control Rank | 2018 Federal Research x \$1000 | 2018 Control Rank | 2019 Endowment Assets x \$1000 | 2019 Control Rank |
| Public                                                        | University of Kentucky                    | 7                                       | 382,973                      | 42                | 168,968                        | 46                | 1,407,221                      | 28                |
| Public                                                        | Iowa State University                     | 6                                       | 343,890                      | 45                | 145,241                        | 51                | 1,101,709                      | 40                |
| Public                                                        | University at Buffalo                     | 6                                       | 393,241                      | 40                | 183,124                        | 44                | 794,895                        | 50                |
| Public                                                        | University of South Florida - Tampa       | 6                                       | 524,744                      | 29                | 245,414                        | 31                | 513,545                        | 81                |
| Public                                                        | Colorado State University - Fort Collins  | 5                                       | 356,951                      | 44                | 257,355                        | 29                | 376,063                        | 93                |
| Public                                                        | University of Cincinnati - Cincinnati     | 5                                       | 464,289                      | 37                | 246,400                        | 30                | 1,453,000                      | 26                |
| Public                                                        | Florida State University                  | 4                                       | 260,486                      | 56                | 129,435                        | 58                | 704,106                        | 58                |
| Public                                                        | Oregon State University                   | 4                                       | 266,684                      | 55                | 166,354                        | 49                | 622,473                        | 64                |
| Public                                                        | University of Tennessee - Knoxville       | 4                                       | 303,951                      | 49                | 143,406                        | 53                | 750,492                        | 54                |
| Public                                                        | Washington State University - Pullman     | 4                                       | 314,688                      | 47                | 131,229                        | 57                | 1,067,842                      | 42                |
| Public                                                        | University of Connecticut - Storrs        | 3                                       | 163,543                      | 81                | 88,586                         | 71                | 353,994                        | 99                |
| Public                                                        | University of Illinois - Chicago          | 3                                       | 343,254                      | 46                | 189,322                        | 43                | 357,455                        | 97                |
| Public                                                        | University of Missouri - Columbia         | 3                                       | 245,600                      | 60                | 108,254                        | 63                | 1,052,760                      | 43                |
| Public                                                        | Florida International University          | 2                                       | 165,748                      | 80                | 80,417                         | 81                | 216,382                        | 134               |
| Public                                                        | University of Arkansas - Fayetteville     | 2                                       | 146,029                      | 87                | 48,288                         | 108               | 1,221,935                      | 37                |
| Public                                                        | University of California - Riverside      | 2                                       | 162,054                      | 82                | 75,990                         | 85                | 257,119                        | 120               |
| Public                                                        | University of California - Santa Cruz     | 2                                       | 123,221                      | 99                | 62,218                         | 91                | 210,387                        | 138               |
| Public                                                        | University of Hawaii - Manoa              | 2                                       | 272,971                      | 54                | 166,398                        | 48                | 326,993                        | 103               |
| Public                                                        | University of Houston - University Park   | 2                                       | 158,543                      | 84                | 62,134                         | 92                | 658,493                        | 59                |
| Public                                                        | University of Nebraska - Lincoln          | 2                                       | 275,161                      | 52                | 102,078                        | 67                | 1,082,434                      | 41                |
| Public                                                        | University of New Mexico - Albuquerque    | 2                                       | 245,400                      | 61                | 167,315                        | 47                | 457,313                        | 85                |
| Public                                                        | University of Oklahoma - Norman           | 2                                       | 143,376                      | 88                | 87,989                         | 74                | 1,384,500                      | 31                |
| Public                                                        | University of South Carolina - Columbia   | 2                                       | 199,483                      | 70                | 88,117                         | 73                | 713,376                        | 56                |
| Public                                                        | Auburn University                         | 1                                       | 184,650                      | 72                | 57,718                         | 95                | 792,983                        | 51                |
| Public                                                        | Clemson University                        | 1                                       | 160,361                      | 83                | 66,618                         | 89                | 774,514                        | 52                |
| Public                                                        | George Mason University                   | 1                                       | 125,416                      | 97                | 64,315                         | 90                | 113,199                        | 188               |
| Public                                                        | Louisiana State University - Baton Rouge  | 1                                       | 278,075                      | 51                | 83,453                         | 80                | 519,887                        | 79                |
| Public                                                        | New Jersey Institute of Technology        | 1                                       | 124,565                      | 98                | 78,313                         | 82                | 129,455                        | 173               |
| Public                                                        | University of Alabama - Huntsville        | 1                                       | 94,519                       | 112               | 74,315                         | 86                | 77,250                         | 246               |
| Public                                                        | University of Central Florida             | 1                                       | 176,094                      | 77                | 89,504                         | 70                | 164,722                        | 158               |
| Public                                                        | University of Maryland - Baltimore County | 1                                       | 70,358                       | 123               | 52,934                         | 103               | 102,019                        | 201               |
| Public                                                        | University of Nevada - Reno               | 1                                       | 127,049                      | 96                | 59,879                         | 94                | 377,446                        | 92                |
| Public                                                        | Utah State University                     | 1                                       | 215,994                      | 67                | 158,576                        | 50                | 402,862                        | 89                |
| Public                                                        | West Virginia University                  | 1                                       | 176,082                      | 78                | 73,518                         | 87                | 589,835                        | 68                |

## The Top American Research Universities

| Support                              |                         | Faculty                                |                         |                           |                         | Advanced Training             |                         |                      |                         | Undergraduate         |                         |
|--------------------------------------|-------------------------|----------------------------------------|-------------------------|---------------------------|-------------------------|-------------------------------|-------------------------|----------------------|-------------------------|-----------------------|-------------------------|
| 2019<br>Annual<br>Giving<br>x \$1000 | 2019<br>Control<br>Rank | 2019<br>National<br>Academy<br>Members | 2019<br>Control<br>Rank | 2019<br>Faculty<br>Awards | 2019<br>Control<br>Rank | 2019<br>Doctorates<br>Granted | 2019<br>Control<br>Rank | 2018<br>Post<br>Docs | 2018<br>Control<br>Rank | 2018<br>Median<br>SAT | 2018<br>Control<br>Rank |
| 130,982                              | 41                      | 2                                      | 84                      | 14                        | 32                      | 337                           | 47                      | 261                  | 45                      | 1240                  | 68                      |
| 122,717                              | 43                      | 8                                      | 54                      | 12                        | 40                      | 416                           | 31                      | 323                  | 34                      | 1210                  | 87                      |
| 58,842                               | 81                      | 7                                      | 58                      | 15                        | 29                      | 387                           | 36                      | 277                  | 42                      | 1245                  | 65                      |
| 65,533                               | 76                      | 10                                     | 44                      | 13                        | 36                      | 373                           | 39                      | 307                  | 36                      | 1250                  | 63                      |
| 47,548                               | 92                      | 10                                     | 44                      | 14                        | 32                      | 263                           | 59                      | 269                  | 44                      | 1175                  | 137                     |
| 115,042                              | 49                      | 8                                      | 54                      | 9                         | 55                      | 250                           | 62                      | 288                  | 38                      | 1260                  | 54                      |
| 92,895                               | 62                      | 8                                      | 54                      | 14                        | 32                      | 422                           | 29                      | 242                  | 46                      | 1275                  | 48                      |
| 112,749                              | 50                      | 4                                      | 70                      | 12                        | 40                      | 296                           | 55                      | 222                  | 50                      | 1195                  | 102                     |
| 109,536                              | 52                      | 7                                      | 58                      | 12                        | 40                      | 383                           | 37                      | 129                  | 73                      | 1310                  | 30                      |
| 98,680                               | 58                      | 9                                      | 47                      | 11                        | 43                      | 312                           | 53                      | 181                  | 59                      | 1115                  | 231                     |
| 55,552                               | 85                      | 1                                      | 97                      | 15                        | 29                      | 334                           | 48                      | 113                  | 78                      | 1315                  | 29                      |
| 55,212                               | 86                      | 6                                      | 61                      | 7                         | 66                      | 343                           | 44                      | 117                  | 75                      | 1120                  | 227                     |
| 100,290                              | 57                      | 10                                     | 44                      | 9                         | 55                      | 426                           | 28                      | 199                  | 56                      | 1240                  | 68                      |
| 39,763                               | 102                     | 3                                      | 74                      | 11                        | 43                      | 215                           | 72                      | 242                  | 46                      | 1175                  | 137                     |
| 136,604                              | 37                      | 4                                      | 70                      | 7                         | 66                      | 209                           | 74                      | 63                   | 100                     | 1240                  | 68                      |
| 23,776                               | 133                     | 11                                     | 41                      | 11                        | 43                      | 293                           | 56                      | 216                  | 53                      | 1220                  | 82                      |
| 31,070                               | 114                     | 12                                     | 39                      | 8                         | 61                      | 192                           | 81                      | 135                  | 70                      | 1295                  | 38                      |
| 45,942                               | 97                      | 11                                     | 41                      | 9                         | 55                      | 206                           | 76                      | 199                  | 56                      | 1145                  | 173                     |
| 89,416                               | 65                      | 15                                     | 33                      | 6                         | 75                      | 346                           | 43                      | 220                  | 51                      | 1220                  | 82                      |
| 107,651                              | 53                      | 1                                      | 97                      | 10                        | 49                      | 316                           | 52                      | 170                  | 60                      | 1225                  | 77                      |
| 60,157                               | 79                      | 5                                      | 65                      | 14                        | 32                      | 220                           | 70                      | 103                  | 80                      | 1110                  | 236                     |
| 119,126                              | 46                      | 0                                      | 145                     | 4                         | 90                      | 233                           | 66                      | 149                  | 65                      | 1240                  | 68                      |
| 104,246                              | 55                      | 1                                      | 97                      | 6                         | 75                      | 431                           | 27                      | 114                  | 76                      | 1275                  | 48                      |
| 96,605                               | 60                      | 1                                      | 97                      | 3                         | 108                     | 244                           | 64                      | 67                   | 97                      | 1295                  | 38                      |
| 94,260                               | 61                      | 3                                      | 74                      | 8                         | 61                      | 243                           | 65                      | 91                   | 84                      | 1310                  | 30                      |
| 97,695                               | 59                      | 2                                      | 84                      | 10                        | 49                      | 293                           | 56                      | 36                   | 126                     | 1220                  | 82                      |
| 111,593                              | 51                      | 3                                      | 74                      | 4                         | 90                      | 325                           | 50                      | 132                  | 72                      | 1240                  | 68                      |
| 13,554                               | 182                     | 1                                      | 97                      | 4                         | 90                      | 56                            | 157                     | 33                   | 134                     | 1285                  | 43                      |
| 1,949                                | 377                     | 1                                      | 97                      | 0                         | 291                     | 38                            | 183                     | 15                   | 159                     | 1310                  | 30                      |
| 56,841                               | 84                      | 6                                      | 61                      | 11                        | 43                      | 251                           | 61                      | 146                  | 67                      | 1250                  | 63                      |
| 15,739                               | 165                     | 1                                      | 97                      | 2                         | 132                     | 81                            | 133                     | 38                   | 124                     | 1275                  | 48                      |
| 46,212                               | 96                      | 2                                      | 84                      | 10                        | 49                      | 123                           | 106                     | 87                   | 87                      | 1160                  | 149                     |
| 37,242                               | 107                     | 1                                      | 97                      | 6                         | 75                      | 113                           | 113                     | 44                   | 114                     | 1195                  | 102                     |
| 122,060                              | 44                      | 2                                      | 84                      | 9                         | 55                      | 194                           | 80                      | 79                   | 89                      | 1180                  | 116                     |

## The Top American Research Universities

| Top Medical and Specialized Research Universities                                |                                          |                                       |                                          | Research                     |                    |                                |                    | Private                        |                    |
|----------------------------------------------------------------------------------|------------------------------------------|---------------------------------------|------------------------------------------|------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|
| Institutions in Order of Top 25 Score, then Top 26-50 Score, then Alphabetically |                                          | Number of Measures in Top 25 National | Number of Measures in Top 26-50 National | 2018 Total Research x \$1000 | 2018 National Rank | 2018 Federal Research x \$1000 | 2018 National Rank | 2019 Endowment Assets x \$1000 | 2019 National Rank |
| Public                                                                           | University of California - San Francisco | 6                                     | 1                                        | 1,595,732                    | 2                  | 669,470                        | 8                  | 3,679,094                      | 31                 |
| Private                                                                          | Icahn School of Medicine at Mount Sinai  | 2                                     | 2                                        | 640,141                      | 35                 | 398,656                        | 25                 | 714,803                        | 152                |
| Private                                                                          | Rockefeller University                   | 1                                     | 1                                        | 353,142                      | 70                 | 87,231                         | 116                | 2,293,239                      | 46                 |
| Public                                                                           | Univ. of Texas MD Anderson Cancer Ctr.   | 1                                     | 1                                        | 929,710                      | 15                 | 173,206                        | 72                 | 1,405,649                      | 76                 |
| Private                                                                          | Baylor College of Medicine               | 0                                     | 3                                        | 623,396                      | 37                 | 300,098                        | 42                 | 1,301,005                      | 84                 |
| Private                                                                          | Scripps Research Institute               | 0                                     | 3                                        | 396,839                      | 61                 | 267,088                        | 48                 |                                |                    |
| Public                                                                           | Univ. of Texas SW Medical Ctr. - Dallas  | 0                                     | 2                                        | 474,260                      | 53                 | 197,910                        | 62                 | 2,007,032                      | 53                 |
| Public                                                                           | Oregon Health & Science University       | 0                                     | 1                                        | 372,148                      | 65                 | 264,492                        | 49                 | 877,758                        | 126                |
| Private                                                                          | Weill Cornell Medical College            | 0                                     | 1                                        | 403,485                      | 59                 | 166,613                        | 75                 | 1,522,808                      | 69                 |

| Top Private Medical and Specialized Research Universities                        |                                         |                                      |                                         | Research                     |                   |                                |                   | Private                        |                   |
|----------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|-----------------------------------------|------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
| Institutions in Order of Top 25 Score, then Top 26-50 Score, then Alphabetically |                                         | Number of Measures in Top 25 Control | Number of Measures in Top 26-50 Control | 2018 Total Research x \$1000 | 2018 Control Rank | 2018 Federal Research x \$1000 | 2018 Control Rank | 2019 Endowment Assets x \$1000 | 2019 Control Rank |
| Private                                                                          | Icahn School of Medicine at Mount Sinai | 5                                    | 1                                       | 640,141                      | 15                | 398,656                        | 13                | 714,803                        | 97                |
| Private                                                                          | Baylor College of Medicine              | 4                                    | 1                                       | 623,396                      | 17                | 300,098                        | 17                | 1,301,005                      | 51                |
| Private                                                                          | Scripps Research Institute              | 4                                    | 1                                       | 396,839                      | 22                | 267,088                        | 22                |                                |                   |
| Private                                                                          | Rockefeller University                  | 2                                    | 5                                       | 353,142                      | 26                | 87,231                         | 41                | 2,293,239                      | 30                |
| Private                                                                          | Weill Cornell Medical College           | 2                                    | 5                                       | 403,485                      | 21                | 166,613                        | 28                | 1,522,808                      | 45                |
| Private                                                                          | Thomas Jefferson University             | 0                                    | 6                                       | 148,573                      | 42                | 64,869                         | 45                | 954,177                        | 69                |
| Private                                                                          | Cold Spring Harbor Laboratory           | 0                                    | 4                                       | 115,870                      | 45                | 67,139                         | 44                |                                |                   |
| Private                                                                          | Medical College of Wisconsin            | 0                                    | 3                                       | 229,436                      | 33                | 111,273                        | 36                | 937,909                        | 73                |
| Private                                                                          | Rush University                         | 0                                    | 3                                       | 89,101                       | 47                | 64,178                         | 46                | 620,253                        | 108               |
| Private                                                                          | Woods Hole Oceanographic Institution    | 0                                    | 3                                       | 204,400                      | 34                | 163,003                        | 29                |                                |                   |

| Top Public Medical and Specialized Research Universities                         |                                          |                                      |                                         | Research                     |                   |                                |                   | Private                        |                   |
|----------------------------------------------------------------------------------|------------------------------------------|--------------------------------------|-----------------------------------------|------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------|
| Institutions in Order of Top 25 Score, then Top 26-50 Score, then Alphabetically |                                          | Number of Measures in Top 25 Control | Number of Measures in Top 26-50 Control | 2018 Total Research x \$1000 | 2018 Control Rank | 2018 Federal Research x \$1000 | 2018 Control Rank | 2019 Endowment Assets x \$1000 | 2019 Control Rank |
| Public                                                                           | University of California - San Francisco | 7                                    | 0                                       | 1,595,732                    | 1                 | 669,470                        | 4                 | 3,679,094                      | 10                |
| Public                                                                           | Univ. of Texas SW Med. Ctr. - Dallas     | 3                                    | 3                                       | 474,260                      | 36                | 197,910                        | 39                | 2,007,032                      | 19                |
| Public                                                                           | Univ. of Texas MD Anderson Cancer Ctr.   | 2                                    | 4                                       | 929,710                      | 9                 | 173,206                        | 45                | 1,405,649                      | 29                |
| Public                                                                           | Oregon Health & Science University       | 0                                    | 6                                       | 372,148                      | 43                | 264,492                        | 27                | 877,758                        | 49                |
| Public                                                                           | University of Maryland - Baltimore       | 0                                    | 4                                       | 450,619                      | 38                | 263,732                        | 28                | 361,175                        | 96                |
| Public                                                                           | Univ. of Mass. Med. Sch. - Worcester     | 0                                    | 3                                       | 274,211                      | 53                | 194,953                        | 41                | 295,000                        | 107               |
| Public                                                                           | Uniformed Services Univ. of the HS       | 0                                    | 2                                       | 308,326                      | 48                | 218,702                        | 37                |                                |                   |
| Public                                                                           | Medical University of South Carolina     | 0                                    | 1                                       | 282,253                      | 50                | 142,639                        | 54                | 375,593                        | 94                |
| Public                                                                           | University of Nebraska Medical Center    | 0                                    | 1                                       | 177,245                      | 76                | 93,463                         | 69                | 235,757                        | 124               |

## The Top American Research Universities

| Support                     |                    | Faculty                       |                    |                     |                    | Advanced Training       |                    |                |                    |
|-----------------------------|--------------------|-------------------------------|--------------------|---------------------|--------------------|-------------------------|--------------------|----------------|--------------------|
| 2019 Annual Giving x \$1000 | 2019 National Rank | 2019 National Academy Members | 2019 National Rank | 2019 Faculty Awards | 2019 National Rank | 2019 Doctorates Granted | 2019 National Rank | 2018 Post Docs | 2018 National Rank |
| 622,751                     | 10                 | 140                           | 6                  | 24                  | 24                 | 131                     | 145                | 1,111          | 12                 |
| 168,366                     | 51                 | 25                            | 49                 | 10                  | 75                 | 32                      | 327                | 676            | 21                 |
| 101,644                     | 90                 | 51                            | 25                 | 5                   | 119                | 30                      | 335                | 261            | 69                 |
| 137,227                     | 64                 | 14                            | 66                 | 5                   | 119                |                         |                    | 611            | 29                 |
| 44,086                      | 166                | 23                            | 54                 | 3                   | 160                | 129                     | 148                | 506            | 36                 |
|                             |                    | 30                            | 42                 | 7                   | 97                 |                         |                    | 565            | 31                 |
| 147,421                     | 60                 | 35                            | 34                 | 7                   | 97                 | 99                      | 180                | 585            | 30                 |
| 136,236                     | 66                 | 13                            | 69                 | 6                   | 108                | 38                      | 309                | 286            | 64                 |
| 75,234                      | 115                | 22                            | 56                 | 7                   | 97                 | 77                      | 212                | 474            | 40                 |

| Support                     |                   | Faculty                       |                   |                     |                   | Advanced Training       |                   |                |                   |
|-----------------------------|-------------------|-------------------------------|-------------------|---------------------|-------------------|-------------------------|-------------------|----------------|-------------------|
| 2019 Annual Giving x \$1000 | 2019 Control Rank | 2019 National Academy Members | 2019 Control Rank | 2019 Faculty Awards | 2019 Control Rank | 2019 Doctorates Granted | 2019 Control Rank | 2018 Post Docs | 2018 Control Rank |
| 168,366                     | 25                | 25                            | 23                | 10                  | 27                | 32                      | 136               | 676            | 10                |
| 44,086                      | 68                | 23                            | 25                | 3                   | 53                | 129                     | 47                | 506            | 19                |
|                             |                   | 30                            | 21                | 7                   | 32                |                         |                   | 565            | 16                |
| 101,644                     | 34                | 51                            | 16                | 5                   | 37                | 30                      | 142               | 261            | 25                |
| 75,234                      | 45                | 22                            | 26                | 7                   | 32                | 77                      | 76                | 474            | 21                |
| 93,490                      | 38                | 4                             | 47                | 4                   | 42                | 31                      | 140               | 136            | 39                |
|                             |                   | 6                             | 39                | 3                   | 53                |                         |                   | 168            | 35                |
| 42,907                      | 69                | 2                             | 57                | 1                   | 106               | 33                      | 134               | 132            | 41                |
| 11,352                      | 207               | 3                             | 51                | 0                   | 200               | 17                      | 188               | 97             | 45                |
|                             |                   | 3                             | 51                | 0                   | 200               |                         |                   | 90             | 49                |

| Support                     |                   | Faculty                       |                   |                     |                   | Advanced Training       |                   |                |                   |
|-----------------------------|-------------------|-------------------------------|-------------------|---------------------|-------------------|-------------------------|-------------------|----------------|-------------------|
| 2019 Annual Giving x \$1000 | 2019 Control Rank | 2019 National Academy Members | 2019 Control Rank | 2019 Faculty Awards | 2019 Control Rank | 2019 Doctorates Granted | 2019 Control Rank | 2018 Post Docs | 2018 Control Rank |
| 622,751                     | 3                 | 140                           | 2                 | 24                  | 14                | 131                     | 100               | 1,111          | 5                 |
| 147,421                     | 32                | 35                            | 16                | 7                   | 66                | 99                      | 119               | 585            | 15                |
| 137,227                     | 36                | 14                            | 35                | 5                   | 83                |                         |                   | 611            | 14                |
| 136,236                     | 38                | 13                            | 38                | 6                   | 75                | 38                      | 183               | 286            | 40                |
| 75,305                      | 70                | 9                             | 47                | 3                   | 108               | 73                      | 141               | 332            | 31                |
| 35,709                      | 111               | 9                             | 47                | 9                   | 55                | 52                      | 162               | 287            | 39                |
|                             |                   | 3                             | 74                | 0                   | 291               |                         |                   | 44             | 114               |
| 43,318                      | 99                | 4                             | 70                | 2                   | 132               | 150                     | 92                | 152            | 64                |
| 117,117                     | 47                | 1                             | 97                | 1                   | 175               | 74                      | 139               | 136            | 69                |



## Part II – The Center for Measuring University Performance – Research Universities

*The Center for Measuring University Performance's* research universities consist of academic institutions that had more than \$40 million in federal research expenditures in fiscal year 2018. In the following tables, institutions are listed alphabetically with the most current data available on each measure and their rank on each measure for each year. *The Center for Measuring University Performance* provides both the national rank (rank among all universities) and the control rank (rank within private or public universities). We include five years of data for each measure, which correspond to the same data years used in each of the five prior *The Top American Research Universities* reports. In addition to the nine performance variables presented in Part I tables, these tables also include other institutional characteristics related to student enrollment, medical schools, land grant status, ownership, research focus, and National Merit Scholars. The Source Notes section of this report provides detailed information on each data element. Tables in this section include the following:

- **Total Research Expenditures** (2014-2018)
- **Federal Research Expenditures** (2014-2018)
- **Research by Major Discipline** (2018)
- **Endowment Assets** (2015-2019)
- **Annual Giving** (2015-2019)
- **National Academy Membership** (2015-2019)
- **Faculty Awards** (2015-2019)
- **Doctorates Awarded** (2015-2019)
- **Postdoctoral Appointees** (2014-2018)
- **SAT Scores** (2014-2018)
- **National Merit Scholars** (2015-2019)
- **Change: Research** presents trend data on total, federal, and non-federal research (2009 and 2018) in constant dollars.
- **Change: Private Support and Doctorates** provides trend data on endowment assets (2010 and 2019) and annual giving (2010 and 2019) in constant dollars, and doctorates awarded (2010 and 2019).
- **Change: Students** includes trend data on median SAT scores (2009 and 2018), National Merit and Achievement Scholars (2010 and 2019), and student headcount enrollment (2009 and 2018).
- **Institutional Characteristics** includes state location, highest degree offered, medical school and land grant status, federal research focus (summary of federal research by discipline), and total student enrollment.
- **Student Characteristics** provides headcount enrollment data broken out by level (i.e., undergraduate and graduate), part-time enrollment by level, and degrees awarded.
- **The Center for Measuring University Performance** measures presents the number of times a university ranks in the top 25 (or 26-50) on the nine quality measures in this year's report as compared to the past five years (i.e., 2015-2019 reports).

Data found in these tables may not always match the figures published by the original source. *The Center for Measuring University Performance* makes adjustments, when necessary, to ensure that the data reflect the activity at a single campus rather than that of a multiple-campus institution or state university system. When data are missing from the original source, *The Center for Measuring University Performance* may substitute another figure, if available. A full discussion of this subject, and the various adjustments or substitutions made to the original data, is in the Data Notes section of this report.

The prior years' data or ranks may differ slightly from our last report due to revised figures or estimates from the data source or institution.

*The Center for Measuring University Performance's* website [<https://mup.umass.edu>] provides these same tables in Microsoft Excel spreadsheets for ease of analysis. In addition to the over-\$40-million group, the online tables contain data on all institutions reporting any federal research in the past five years.

## The Top American Research Universities

| Total Research                                                             |                                      |                               |                  |                 |                               |                  |                 |
|----------------------------------------------------------------------------|--------------------------------------|-------------------------------|------------------|-----------------|-------------------------------|------------------|-----------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                      | 2018                          | 2018             | 2018            | 2017                          | 2017             | 2017            |
|                                                                            |                                      | Total<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank | Total<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank |
| Public                                                                     | Arizona State University             | 559,391                       | 41               | 24              | 484,315                       | 47               | 30              |
| Public                                                                     | Auburn University                    | 184,650                       | 110              | 72              | 167,352                       | 117              | 79              |
| Public                                                                     | Augusta University                   | 99,043                        | 155              | 110             | 99,637                        | 149              | 105             |
| Private                                                                    | Baylor College of Medicine           | 623,396                       | 37               | 17              | 604,952                       | 35               | 15              |
| Private                                                                    | Boston University                    | 435,864                       | 56               | 18              | 398,754                       | 58               | 20              |
| Private                                                                    | Brown University                     | 233,689                       | 95               | 32              | 201,253                       | 100              | 34              |
| Private                                                                    | California Institute of Technology   | 363,007                       | 67               | 24              | 380,711                       | 60               | 21              |
| Private                                                                    | Carnegie Mellon University           | 318,218                       | 74               | 28              | 313,145                       | 73               | 28              |
| Private                                                                    | Case Western Reserve University      | 430,379                       | 57               | 19              | 406,196                       | 56               | 19              |
| Public                                                                     | Clemson University                   | 160,361                       | 122              | 83              | 144,728                       | 128              | 88              |
| Public                                                                     | Cleveland State University           | 77,203                        | 169              | 121             | 77,518                        | 165              | 118             |
| Private                                                                    | Cold Spring Harbor Laboratory        | 115,870                       | 145              | 45              | 97,288                        | 153              | 45              |
| Public                                                                     | Colorado State Univ. - Fort Collins  | 356,951                       | 68               | 44              | 328,221                       | 70               | 44              |
| Private                                                                    | Columbia University                  | 908,771                       | 17               | 7               | 848,733                       | 19               | 8               |
| Private                                                                    | Cornell University                   | 630,255                       | 36               | 16              | 591,701                       | 38               | 16              |
| Private                                                                    | Dartmouth College                    | 287,951                       | 79               | 30              | 277,638                       | 81               | 30              |
| Private                                                                    | Drexel University                    | 148,107                       | 129              | 43              | 132,507                       | 135              | 43              |
| Private                                                                    | Duke University                      | 1,153,947                     | 8                | 3               | 1,113,921                     | 7                | 3               |
| Private                                                                    | Emory University                     | 693,172                       | 31               | 14              | 646,146                       | 32               | 14              |
| Public                                                                     | Florida International University     | 165,748                       | 119              | 80              | 146,431                       | 126              | 86              |
| Public                                                                     | Florida State University             | 260,486                       | 86               | 56              | 247,319                       | 88               | 58              |
| Public                                                                     | George Mason University              | 125,416                       | 141              | 97              | 98,488                        | 152              | 108             |
| Private                                                                    | George Washington University         | 242,029                       | 92               | 31              | 226,005                       | 94               | 31              |
| Private                                                                    | Georgetown University                | 192,160                       | 107              | 36              | 187,948                       | 104              | 36              |
| Public                                                                     | Georgia Institute of Technology      | 859,009                       | 20               | 12              | 785,603                       | 22               | 13              |
| Public                                                                     | Georgia State University             | 133,302                       | 138              | 94              | 133,242                       | 134              | 92              |
| Private                                                                    | Harvard University                   | 1,066,612                     | 12               | 5               | 1,032,590                     | 12               | 5               |
| Private                                                                    | Icahn School of Med. at Mount Sinai  | 640,141                       | 35               | 15              | 575,448                       | 39               | 17              |
| Public                                                                     | Indiana University - Bloomington     | 534,811                       | 43               | 26              | 507,553                       | 44               | 27              |
| Public                                                                     | Iowa State University                | 343,890                       | 72               | 45              | 310,100                       | 75               | 47              |
| Private                                                                    | Johns Hopkins University             | 2,656,152                     | 1                | 1               | 2,556,641                     | 1                | 1               |
| Public                                                                     | Kansas State University              | 201,866                       | 102              | 68              | 183,513                       | 108              | 71              |
| Public                                                                     | Louisiana State Univ. - Baton Rouge  | 278,075                       | 81               | 51              | 258,402                       | 86               | 56              |
| Private                                                                    | Massachusetts Inst. of Technology    | 893,508                       | 18               | 8               | 878,964                       | 17               | 7               |
| Private                                                                    | Medical College of Wisconsin         | 229,436                       | 97               | 33              | 209,618                       | 99               | 33              |
| Public                                                                     | Medical University of South Carolina | 282,253                       | 80               | 50              | 262,267                       | 84               | 54              |
| Public                                                                     | Michigan State University            | 673,959                       | 32               | 18              | 653,611                       | 31               | 18              |
| Public                                                                     | Mississippi State University         | 235,581                       | 94               | 63              | 233,024                       | 93               | 63              |
| Public                                                                     | Montana State University - Bozeman   | 114,496                       | 146              | 101             | 118,221                       | 142              | 98              |
| Public                                                                     | Naval Postgraduate School            | 52,551                        | 192              | 141             | 52,404                        | 189              | 139             |
| Public                                                                     | New Jersey Institute of Technology   | 124,565                       | 142              | 98              | 101,334                       | 147              | 103             |
| Public                                                                     | New Mexico State Univ. - Las Cruces  | 92,231                        | 161              | 115             | 103,693                       | 146              | 102             |
| Private                                                                    | New York University                  | 801,961                       | 24               | 10              | 822,329                       | 20               | 9               |
| Public                                                                     | North Carolina State University      | 497,851                       | 49               | 32              | 488,974                       | 46               | 29              |
| Private                                                                    | Northeastern University              | 156,546                       | 125              | 41              | 134,827                       | 132              | 42              |
| Private                                                                    | Northwestern University              | 776,458                       | 27               | 12              | 724,060                       | 29               | 12              |
| Public                                                                     | Ohio State University - Columbus     | 818,428                       | 23               | 14              | 804,699                       | 21               | 12              |
| Public                                                                     | Oklahoma State Univ. - Stillwater    | 154,418                       | 126              | 85              | 152,605                       | 122              | 82              |
| Public                                                                     | Oregon Health & Science University   | 372,148                       | 65               | 43              | 346,710                       | 68               | 42              |

## The Top American Research Universities

| 2016<br>Total<br>Research<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Total<br>Research<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Total<br>Research<br>x \$1000 | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| 441,411                               | 49                       | 32                      | 403,708                               | 51                       | 34                      | 380,581                               | 55                       | 36                      |
| 149,411                               | 122                      | 82                      | 132,970                               | 124                      | 84                      | 140,110                               | 122                      | 83                      |
| 71,338                                | 164                      | 117                     | 67,736                                | 165                      | 117                     | 64,116                                | 172                      | 124                     |
| 572,527                               | 37                       | 16                      | 520,220                               | 36                       | 15                      | 496,314                               | 38                       | 15                      |
| 379,117                               | 55                       | 20                      | 372,267                               | 58                       | 21                      | 353,850                               | 60                       | 22                      |
| 235,373                               | 89                       | 30                      | 286,332                               | 78                       | 28                      | 291,917                               | 76                       | 28                      |
| 356,204                               | 62                       | 23                      | 350,833                               | 61                       | 22                      | 358,137                               | 59                       | 21                      |
| 304,383                               | 76                       | 28                      | 241,829                               | 86                       | 30                      | 250,497                               | 82                       | 30                      |
| 403,827                               | 52                       | 18                      | 400,167                               | 55                       | 19                      | 417,436                               | 49                       | 18                      |
| 133,342                               | 129                      | 89                      | 120,858                               | 134                      | 93                      | 116,871                               | 136                      | 94                      |
| 70,665                                | 165                      | 118                     | 56,683                                | 176                      | 128                     | 61,291                                | 174                      | 126                     |
| 88,943                                | 154                      | 46                      | 84,653                                | 152                      | 46                      | 76,733                                | 162                      | 47                      |
| 323,068                               | 70                       | 43                      | 308,785                               | 73                       | 47                      | 300,572                               | 73                       | 47                      |
| 793,710                               | 19                       | 8                       | 826,010                               | 18                       | 7                       | 844,766                               | 13                       | 5                       |
| 588,513                               | 34                       | 15                      | 637,404                               | 28                       | 11                      | 580,936                               | 32                       | 13                      |
| 224,497                               | 94                       | 31                      | 203,660                               | 98                       | 33                      | 204,360                               | 97                       | 33                      |
| 120,789                               | 136                      | 43                      | 122,366                               | 132                      | 41                      | 124,464                               | 132                      | 41                      |
| 1,044,046                             | 8                        | 3                       | 1,029,193                             | 6                        | 2                       | 1,031,404                             | 6                        | 2                       |
| 597,971                               | 32                       | 14                      | 574,472                               | 34                       | 14                      | 551,556                               | 34                       | 14                      |
| 133,831                               | 128                      | 88                      | 124,631                               | 131                      | 91                      | 107,487                               | 140                      | 97                      |
| 243,327                               | 86                       | 57                      | 237,427                               | 87                       | 57                      | 231,390                               | 88                       | 58                      |
| 92,649                                | 150                      | 105                     | 89,845                                | 148                      | 103                     | 85,493                                | 152                      | 108                     |
| 214,984                               | 96                       | 32                      | 226,132                               | 90                       | 31                      | 213,334                               | 93                       | 32                      |
| 162,734                               | 116                      | 38                      | 157,308                               | 116                      | 38                      | 162,983                               | 112                      | 36                      |
| 780,118                               | 20                       | 12                      | 757,116                               | 20                       | 12                      | 720,248                               | 21                       | 13                      |
| 103,731                               | 144                      | 100                     | 79,813                                | 155                      | 109                     | 80,955                                | 158                      | 113                     |
| 1,011,950                             | 11                       | 5                       | 955,246                               | 9                        | 4                       | 875,964                               | 11                       | 4                       |
| 540,296                               | 39                       | 17                      | 508,353                               | 40                       | 16                      | 463,429                               | 43                       | 17                      |
| 471,055                               | 45                       | 28                      | 451,508                               | 46                       | 29                      | 172,380                               | 107                      | 72                      |
| 316,822                               | 72                       | 45                      | 295,635                               | 76                       | 49                      | 297,293                               | 74                       | 48                      |
| 2,425,199                             | 1                        | 1                       | 2,299,057                             | 1                        | 1                       | 2,227,536                             | 1                        | 1                       |
| 181,933                               | 105                      | 71                      | 180,082                               | 103                      | 69                      | 178,304                               | 102                      | 68                      |
| 282,574                               | 79                       | 50                      | 274,001                               | 79                       | 51                      | 282,462                               | 79                       | 50                      |
| 880,111                               | 14                       | 6                       | 858,917                               | 12                       | 5                       | 815,008                               | 15                       | 6                       |
| 199,925                               | 100                      | 34                      | 199,283                               | 99                       | 34                      | 199,713                               | 99                       | 34                      |
| 260,098                               | 81                       | 52                      | 243,534                               | 83                       | 54                      | 242,594                               | 83                       | 53                      |
| 573,204                               | 36                       | 21                      | 519,994                               | 37                       | 22                      | 492,501                               | 39                       | 24                      |
| 229,939                               | 91                       | 61                      | 216,817                               | 93                       | 62                      | 200,251                               | 98                       | 65                      |
| 102,179                               | 145                      | 101                     | 98,467                                | 142                      | 98                      | 104,646                               | 144                      | 100                     |
| 54,558                                | 181                      | 133                     | 74,293                                | 161                      | 114                     | 91,400                                | 149                      | 105                     |
| 95,235                                | 148                      | 104                     | 96,386                                | 143                      | 99                      | 94,371                                | 147                      | 103                     |
| 108,935                               | 140                      | 96                      | 127,000                               | 128                      | 88                      | 129,124                               | 128                      | 88                      |
| 751,393                               | 21                       | 9                       | 505,071                               | 41                       | 17                      | 490,614                               | 40                       | 16                      |
| 479,039                               | 44                       | 27                      | 462,347                               | 45                       | 28                      | 440,392                               | 44                       | 27                      |
| 121,574                               | 135                      | 42                      | 115,664                               | 137                      | 43                      | 111,779                               | 137                      | 43                      |
| 684,767                               | 28                       | 11                      | 627,320                               | 29                       | 12                      | 621,504                               | 30                       | 12                      |
| 751,293                               | 22                       | 13                      | 745,238                               | 22                       | 14                      | 752,836                               | 19                       | 11                      |
| 150,167                               | 121                      | 81                      | 126,607                               | 129                      | 89                      | 126,543                               | 130                      | 90                      |
| 329,414                               | 68                       | 41                      | 325,268                               | 68                       | 44                      | 313,112                               | 71                       | 46                      |

## The Top American Research Universities

| Total Research                                                             |                                         |                               |                  |                 |                               |                  |                 |
|----------------------------------------------------------------------------|-----------------------------------------|-------------------------------|------------------|-----------------|-------------------------------|------------------|-----------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                         | 2018                          | 2018             | 2018            | 2017                          | 2017             | 2017            |
|                                                                            |                                         | Total<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank | Total<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank |
| Public                                                                     | Oregon State University                 | 266,684                       | 85               | 55              | 260,893                       | 85               | 55              |
| Public                                                                     | Penn. St. Univ. - Hershey Med. Ctr.     | 101,701                       | 152              | 107             | 100,851                       | 148              | 104             |
| Public                                                                     | Pennsylvania State Univ. - Univ. Park   | 783,960                       | 26               | 15              | 725,832                       | 26               | 16              |
| Private                                                                    | Princeton University                    | 351,594                       | 71               | 27              | 325,150                       | 71               | 27              |
| Public                                                                     | Purdue University - West Lafayette      | 535,826                       | 42               | 25              | 533,598                       | 41               | 24              |
| Private                                                                    | Rensselaer Polytechnic Institute        | 94,221                        | 158              | 46              | 96,533                        | 154              | 46              |
| Private                                                                    | Rice University                         | 157,352                       | 124              | 40              | 163,312                       | 120              | 40              |
| Private                                                                    | Rockefeller University                  | 353,142                       | 70               | 26              | 348,845                       | 67               | 26              |
| Private                                                                    | Rush University                         | 89,101                        | 162              | 47              | 74,062                        | 167              | 48              |
| Public                                                                     | Rutgers University - New Brunswick      | 666,368                       | 34               | 20              | 633,789                       | 33               | 19              |
| Private                                                                    | Scripps Research Institute              | 396,839                       | 61               | 22              | 354,582                       | 64               | 24              |
| Private                                                                    | Stanford University                     | 1,106,314                     | 10               | 4               | 1,055,418                     | 10               | 4               |
| Public                                                                     | St. Univ. of NY - Polytechnic Institute | 257,316                       | 88               | 58              | 308,843                       | 76               | 48              |
| Public                                                                     | Stony Brook University                  | 240,949                       | 93               | 62              | 235,430                       | 92               | 62              |
| Public                                                                     | Temple University                       | 253,548                       | 89               | 59              | 249,156                       | 87               | 57              |
| Public                                                                     | Texas A&M Univ. - College Station       | 882,191                       | 19               | 11              | 869,100                       | 18               | 11              |
| Private                                                                    | Thomas Jefferson University             | 148,573                       | 128              | 42              | 142,569                       | 129              | 41              |
| Private                                                                    | Tufts University                        | 197,478                       | 105              | 35              | 216,895                       | 97               | 32              |
| Private                                                                    | Tulane University                       | 179,813                       | 112              | 39              | 167,338                       | 118              | 39              |
| Public                                                                     | Uniformed Services Univ. of the HS      | 308,326                       | 76               | 48              | 298,370                       | 77               | 49              |
| Public                                                                     | University at Albany                    | 151,303                       | 127              | 86              | 140,392                       | 130              | 89              |
| Public                                                                     | University at Buffalo                   | 393,241                       | 62               | 40              | 386,386                       | 59               | 39              |
| Public                                                                     | University of Alabama - Birmingham      | 575,060                       | 40               | 23              | 553,651                       | 40               | 23              |
| Public                                                                     | University of Alabama - Huntsville      | 94,519                        | 157              | 112             | 89,392                        | 157              | 111             |
| Public                                                                     | University of Alaska - Fairbanks        | 138,989                       | 136              | 92              | 150,064                       | 123              | 83              |
| Public                                                                     | University of Arizona                   | 672,038                       | 33               | 19              | 609,965                       | 34               | 20              |
| Public                                                                     | University of Arkansas - Fayetteville   | 146,029                       | 130              | 87              | 135,925                       | 131              | 90              |
| Public                                                                     | Univ. of Arkansas for Med. Sciences     | 139,187                       | 135              | 91              | 128,508                       | 136              | 93              |
| Public                                                                     | University of California - Berkeley     | 747,690                       | 29               | 17              | 724,817                       | 28               | 17              |
| Public                                                                     | University of California - Davis        | 774,775                       | 28               | 16              | 726,469                       | 25               | 15              |
| Public                                                                     | University of California - Irvine       | 399,295                       | 60               | 39              | 339,309                       | 69               | 43              |
| Public                                                                     | University of California - Los Angeles  | 1,242,619                     | 7                | 5               | 1,037,780                     | 11               | 7               |
| Public                                                                     | University of California - Riverside    | 162,054                       | 121              | 82              | 159,305                       | 121              | 81              |
| Public                                                                     | University of California - San Diego    | 1,256,171                     | 6                | 4               | 1,126,269                     | 6                | 4               |
| Public                                                                     | Univ. of California - San Francisco     | 1,595,732                     | 2                | 1               | 1,409,398                     | 3                | 2               |
| Public                                                                     | Univ. of California - Santa Barbara     | 223,349                       | 98               | 65              | 225,767                       | 95               | 64              |
| Public                                                                     | University of California - Santa Cruz   | 123,221                       | 143              | 99              | 119,990                       | 141              | 97              |
| Public                                                                     | University of Central Florida           | 176,094                       | 116              | 77              | 168,630                       | 116              | 78              |
| Private                                                                    | University of Chicago                   | 412,791                       | 58               | 20              | 419,996                       | 54               | 18              |
| Public                                                                     | University of Cincinnati - Cincinnati   | 464,289                       | 54               | 37              | 427,236                       | 53               | 36              |
| Public                                                                     | University of Colorado - Boulder        | 488,883                       | 51               | 34              | 474,496                       | 48               | 31              |
| Public                                                                     | U. of Colorado - Denver/Anschutz Med.   | 517,749                       | 48               | 31              | 472,859                       | 49               | 32              |
| Public                                                                     | Univ. of Connecticut - Health Center    | 93,283                        | 159              | 113             | 76,247                        | 166              | 119             |
| Public                                                                     | University of Connecticut - Storrs      | 163,543                       | 120              | 81              | 180,929                       | 110              | 72              |
| Private                                                                    | University of Dayton                    | 143,636                       | 131              | 44              | 127,207                       | 138              | 44              |
| Public                                                                     | University of Delaware                  | 179,560                       | 113              | 74              | 176,455                       | 112              | 74              |
| Public                                                                     | University of Florida                   | 831,362                       | 22               | 13              | 766,469                       | 23               | 14              |
| Public                                                                     | University of Georgia                   | 390,773                       | 63               | 41              | 403,575                       | 57               | 38              |
| Public                                                                     | University of Hawaii - Manoa            | 272,971                       | 84               | 54              | 288,294                       | 79               | 50              |

## The Top American Research Universities

| 2016<br>Total<br>Research<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Total<br>Research<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Total<br>Research<br>x \$1000 | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| 252,541                               | 84                       | 55                      | 242,874                               | 85                       | 56                      | 229,456                               | 89                       | 59                      |
| 105,298                               | 143                      | 99                      | 91,381                                | 147                      | 102                     | 82,793                                | 155                      | 110                     |
| 704,687                               | 27                       | 17                      | 683,003                               | 25                       | 17                      | 702,912                               | 23                       | 15                      |
| 285,733                               | 78                       | 29                      | 272,379                               | 80                       | 29                      | 287,730                               | 78                       | 29                      |
| 517,879                               | 41                       | 24                      | 498,887                               | 43                       | 26                      | 502,457                               | 37                       | 23                      |
| 93,907                                | 149                      | 45                      | 102,122                               | 141                      | 44                      | 104,844                               | 143                      | 44                      |
| 151,855                               | 119                      | 40                      | 141,935                               | 120                      | 39                      | 136,419                               | 124                      | 40                      |
| 335,136                               | 67                       | 27                      | 323,932                               | 69                       | 25                      | 316,368                               | 69                       | 25                      |
| 73,351                                | 162                      | 47                      | 79,048                                | 156                      | 47                      | 80,551                                | 159                      | 46                      |
| 610,648                               | 31                       | 18                      | 607,257                               | 32                       | 19                      | 627,076                               | 29                       | 18                      |
| 364,670                               | 60                       | 22                      | 384,161                               | 56                       | 20                      | 386,231                               | 54                       | 19                      |
| 1,012,351                             | 10                       | 4                       | 969,643                               | 8                        | 3                       | 912,244                               | 10                       | 3                       |
| 316,680                               | 73                       | 46                      | 295,313                               | 77                       | 50                      | 412,851                               | 50                       | 32                      |
| 227,942                               | 92                       | 62                      | 219,485                               | 92                       | 61                      | 210,301                               | 95                       | 63                      |
| 232,379                               | 90                       | 60                      | 210,371                               | 96                       | 64                      | 206,556                               | 96                       | 64                      |
| 859,952                               | 17                       | 10                      | 836,250                               | 15                       | 10                      | 735,273                               | 20                       | 12                      |
| 122,396                               | 134                      | 41                      | 119,631                               | 136                      | 42                      | 118,378                               | 135                      | 42                      |
| 181,011                               | 106                      | 35                      | 162,510                               | 113                      | 37                      | 156,411                               | 115                      | 38                      |
| 153,298                               | 117                      | 39                      | 140,118                               | 121                      | 40                      | 148,784                               | 117                      | 39                      |
| 256,203                               | 82                       | 53                      | 361,173                               | 60                       | 39                      | 262,489                               | 80                       | 51                      |
| 105,605                               | 142                      | 98                      | 110,284                               | 139                      | 96                      | 129,434                               | 127                      | 87                      |
| 373,308                               | 57                       | 37                      | 367,133                               | 59                       | 38                      | 370,083                               | 57                       | 37                      |
| 531,492                               | 40                       | 23                      | 509,586                               | 38                       | 23                      | 421,475                               | 48                       | 31                      |
| 91,549                                | 151                      | 106                     | 84,745                                | 151                      | 106                     | 85,994                                | 151                      | 107                     |
| 141,976                               | 126                      | 86                      | 139,605                               | 122                      | 82                      | 152,352                               | 116                      | 78                      |
| 592,412                               | 33                       | 19                      | 592,874                               | 33                       | 20                      | 575,864                               | 33                       | 20                      |
| 132,648                               | 131                      | 91                      | 120,679                               | 135                      | 94                      | 111,703                               | 138                      | 95                      |
| 125,378                               | 133                      | 93                      | 132,451                               | 125                      | 85                      | 131,438                               | 125                      | 85                      |
| 734,486                               | 24                       | 15                      | 748,139                               | 21                       | 13                      | 708,485                               | 22                       | 14                      |
| 726,070                               | 26                       | 16                      | 706,087                               | 23                       | 15                      | 699,689                               | 24                       | 16                      |
| 325,582                               | 69                       | 42                      | 313,798                               | 70                       | 45                      | 322,315                               | 65                       | 41                      |
| 1,002,013                             | 12                       | 7                       | 992,009                               | 7                        | 5                       | 920,183                               | 9                        | 7                       |
| 147,268                               | 123                      | 83                      | 136,493                               | 123                      | 83                      | 128,506                               | 129                      | 89                      |
| 1,079,429                             | 6                        | 4                       | 1,093,784                             | 5                        | 4                       | 1,060,207                             | 5                        | 4                       |
| 1,294,261                             | 3                        | 2                       | 1,126,620                             | 3                        | 2                       | 1,084,031                             | 4                        | 3                       |
| 219,907                               | 95                       | 64                      | 213,537                               | 95                       | 63                      | 225,614                               | 90                       | 60                      |
| 146,237                               | 124                      | 84                      | 147,518                               | 118                      | 80                      | 147,536                               | 119                      | 80                      |
| 187,569                               | 103                      | 69                      | 169,770                               | 111                      | 75                      | 143,063                               | 120                      | 81                      |
| 402,491                               | 53                       | 19                      | 402,777                               | 53                       | 18                      | 378,322                               | 56                       | 20                      |
| 401,701                               | 54                       | 35                      | 408,412                               | 50                       | 33                      | 399,571                               | 52                       | 34                      |
| 433,850                               | 50                       | 33                      | 403,654                               | 52                       | 35                      | 362,882                               | 58                       | 38                      |
| 432,693                               | 51                       | 34                      | 400,515                               | 54                       | 36                      | 401,230                               | 51                       | 33                      |
| 78,897                                | 157                      | 111                     | 80,891                                | 154                      | 108                     | 105,047                               | 142                      | 99                      |
| 179,061                               | 108                      | 73                      | 170,730                               | 109                      | 73                      | 142,332                               | 121                      | 82                      |
| 111,363                               | 138                      | 44                      | 93,319                                | 145                      | 45                      | 83,409                                | 154                      | 45                      |
| 169,384                               | 112                      | 75                      | 167,904                               | 112                      | 76                      | 169,641                               | 109                      | 74                      |
| 741,945                               | 23                       | 14                      | 699,750                               | 24                       | 16                      | 652,341                               | 26                       | 17                      |
| 360,520                               | 61                       | 39                      | 330,273                               | 65                       | 42                      | 313,445                               | 70                       | 45                      |
| 300,864                               | 77                       | 49                      | 313,046                               | 71                       | 46                      | 319,818                               | 67                       | 43                      |

## The Top American Research Universities

| Total Research                                                             |                                       |                               |                  |                 |                               |                  |                 |
|----------------------------------------------------------------------------|---------------------------------------|-------------------------------|------------------|-----------------|-------------------------------|------------------|-----------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                       | 2018                          | 2018             | 2018            | 2017                          | 2017             | 2017            |
|                                                                            |                                       | Total<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank | Total<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank |
| Public                                                                     | University of Houston - Univ. Park    | 158,543                       | 123              | 84              | 149,795                       | 124              | 84              |
| Public                                                                     | University of Idaho                   | 105,578                       | 149              | 104             | 105,475                       | 144              | 100             |
| Public                                                                     | University of Illinois - Chicago      | 343,254                       | 73               | 46              | 352,200                       | 65               | 41              |
| Public                                                                     | Univ. of Illinois - Urbana-Champaign  | 609,984                       | 39               | 22              | 602,641                       | 36               | 21              |
| Public                                                                     | University of Iowa                    | 484,253                       | 52               | 35              | 466,462                       | 50               | 33              |
| Public                                                                     | University of Kansas - Lawrence       | 177,249                       | 114              | 75              | 164,772                       | 119              | 80              |
| Public                                                                     | University of Kansas Medical Center   | 92,245                        | 160              | 114             | 86,368                        | 159              | 113             |
| Public                                                                     | University of Kentucky                | 382,973                       | 64               | 42              | 367,934                       | 62               | 40              |
| Public                                                                     | University of Louisville              | 168,433                       | 118              | 79              | 168,906                       | 115              | 77              |
| Public                                                                     | University of Maine - Orono           | 105,810                       | 148              | 103             | 98,748                        | 151              | 107             |
| Public                                                                     | University of Maryland - Baltimore    | 450,619                       | 55               | 38              | 406,979                       | 55               | 37              |
| Public                                                                     | Univ. of Maryland - Baltimore County  | 70,358                        | 171              | 123             | 69,926                        | 171              | 123             |
| Public                                                                     | University of Maryland - College Park | 529,200                       | 45               | 28              | 532,982                       | 42               | 25              |
| Public                                                                     | Univ. of Massachusetts - Amherst      | 193,495                       | 106              | 71              | 194,030                       | 102              | 67              |
| Public                                                                     | Univ. of Mass. Med. Sch. - Worcester  | 274,211                       | 83               | 53              | 279,884                       | 80               | 51              |
| Private                                                                    | University of Miami                   | 355,132                       | 69               | 25              | 365,310                       | 63               | 23              |
| Public                                                                     | University of Michigan - Ann Arbor    | 1,493,353                     | 3                | 2               | 1,434,535                     | 2                | 1               |
| Public                                                                     | University of Minnesota - Twin Cities | 915,798                       | 16               | 10              | 881,286                       | 16               | 10              |
| Public                                                                     | University of Missouri - Columbia     | 245,600                       | 90               | 60              | 242,967                       | 90               | 60              |
| Public                                                                     | University of Montana - Missoula      | 86,096                        | 164              | 117             | 84,109                        | 160              | 114             |
| Public                                                                     | University of Nebraska - Lincoln      | 275,161                       | 82               | 52              | 270,749                       | 82               | 52              |
| Public                                                                     | Univ. of Nebraska Medical Center      | 177,245                       | 115              | 76              | 171,491                       | 114              | 76              |
| Public                                                                     | University of Nevada - Reno           | 127,049                       | 140              | 96              | 99,156                        | 150              | 106             |
| Public                                                                     | Univ. of New Hampshire - Durham       | 133,378                       | 137              | 93              | 133,592                       | 133              | 91              |
| Public                                                                     | Univ. of New Mexico - Albuquerque     | 245,400                       | 91               | 61              | 236,623                       | 91               | 61              |
| Public                                                                     | Univ. of North Carolina - Chapel Hill | 1,094,063                     | 11               | 7               | 1,061,535                     | 9                | 6               |
| Public                                                                     | University of North Dakota            | 100,061                       | 154              | 109             | 91,958                        | 156              | 110             |
| Private                                                                    | University of Notre Dame              | 190,469                       | 109              | 38              | 184,061                       | 107              | 37              |
| Public                                                                     | University of Oklahoma - HSC          | 119,487                       | 144              | 100             | 122,373                       | 139              | 95              |
| Public                                                                     | University of Oklahoma - Norman       | 143,376                       | 132              | 88              | 128,254                       | 137              | 94              |
| Public                                                                     | University of Oregon                  | 83,132                        | 165              | 118             | 72,517                        | 169              | 121             |
| Private                                                                    | University of Pennsylvania            | 1,304,291                     | 5                | 2               | 1,247,686                     | 5                | 2               |
| Public                                                                     | University of Pittsburgh - Pittsburgh | 995,762                       | 13               | 8               | 930,198                       | 14               | 8               |
| Public                                                                     | University of Rhode Island            | 98,271                        | 156              | 111             | 95,197                        | 155              | 109             |
| Private                                                                    | University of Rochester               | 369,072                       | 66               | 23              | 351,924                       | 66               | 25              |
| Public                                                                     | Univ. of South Carolina - Columbia    | 199,483                       | 104              | 70              | 180,127                       | 111              | 73              |
| Public                                                                     | University of South Florida - Tampa   | 524,744                       | 46               | 29              | 502,216                       | 45               | 28              |
| Private                                                                    | University of Southern California     | 854,673                       | 21               | 9               | 725,528                       | 27               | 11              |
| Public                                                                     | University of Tennessee - Knoxville   | 303,951                       | 77               | 49              | 269,548                       | 83               | 53              |
| Public                                                                     | University of Texas - Austin          | 617,567                       | 38               | 21              | 598,597                       | 37               | 22              |
| Public                                                                     | University of Texas - El Paso         | 80,824                        | 166              | 119             | 83,892                        | 161              | 115             |
| Public                                                                     | Univ. of Texas HSCenter - Houston     | 258,411                       | 87               | 57              | 246,060                       | 89               | 59              |
| Public                                                                     | Univ. of Texas HSC - San Antonio      | 201,630                       | 103              | 69              | 192,557                       | 103              | 68              |
| Public                                                                     | U. of Texas MD Anderson Cancer Ctr.   | 929,710                       | 15               | 9               | 888,029                       | 15               | 9               |
| Public                                                                     | U. of Texas Med. Branch - Galveston   | 181,831                       | 111              | 73              | 185,106                       | 105              | 69              |
| Public                                                                     | Univ. of Texas SW Med. Ctr. - Dallas  | 474,260                       | 53               | 36              | 461,797                       | 51               | 34              |
| Public                                                                     | University of Utah                    | 534,208                       | 44               | 27              | 318,956                       | 72               | 45              |
| Public                                                                     | University of Vermont                 | 129,798                       | 139              | 95              | 117,433                       | 143              | 99              |
| Public                                                                     | University of Virginia                | 490,902                       | 50               | 33              | 431,793                       | 52               | 35              |

## The Top American Research Universities

| 2016<br>Total<br>Research<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Total<br>Research<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Total<br>Research<br>x \$1000 | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| 142,081                               | 125                      | 85                      | 125,973                               | 130                      | 90                      | 122,163                               | 133                      | 92                      |
| 99,354                                | 146                      | 102                     | 95,459                                | 144                      | 100                     | 92,512                                | 148                      | 104                     |
| 314,365                               | 74                       | 47                      | 344,619                               | 63                       | 40                      | 339,644                               | 63                       | 39                      |
| 587,264                               | 35                       | 20                      | 614,011                               | 31                       | 18                      | 598,531                               | 31                       | 19                      |
| 447,718                               | 47                       | 30                      | 423,528                               | 48                       | 31                      | 436,852                               | 45                       | 28                      |
| 164,291                               | 115                      | 78                      | 172,406                               | 106                      | 72                      | 169,884                               | 108                      | 73                      |
| 77,365                                | 159                      | 113                     | 85,360                                | 150                      | 105                     | 81,302                                | 156                      | 111                     |
| 340,295                               | 65                       | 40                      | 325,558                               | 67                       | 43                      | 322,313                               | 66                       | 42                      |
| 164,371                               | 114                      | 77                      | 160,199                               | 115                      | 78                      | 163,199                               | 111                      | 76                      |
| 78,576                                | 158                      | 112                     | 78,608                                | 157                      | 110                     | 100,493                               | 145                      | 101                     |
| 375,130                               | 56                       | 36                      | 379,465                               | 57                       | 37                      | 390,682                               | 53                       | 35                      |
| 69,404                                | 167                      | 120                     | 67,944                                | 164                      | 116                     | 64,329                                | 170                      | 122                     |
| 517,173                               | 42                       | 25                      | 503,368                               | 42                       | 25                      | 472,235                               | 42                       | 26                      |
| 193,863                               | 102                      | 68                      | 197,183                               | 100                      | 66                      | 183,210                               | 100                      | 66                      |
| 253,099                               | 83                       | 54                      | 250,338                               | 82                       | 53                      | 241,869                               | 84                       | 54                      |
| 355,690                               | 63                       | 24                      | 328,082                               | 66                       | 24                      | 342,852                               | 62                       | 24                      |
| 1,357,228                             | 2                        | 1                       | 1,300,340                             | 2                        | 1                       | 1,279,603                             | 2                        | 1                       |
| 872,514                               | 15                       | 9                       | 844,016                               | 14                       | 9                       | 850,880                               | 12                       | 8                       |
| 238,605                               | 87                       | 58                      | 243,430                               | 84                       | 55                      | 233,613                               | 87                       | 57                      |
| 69,994                                | 166                      | 119                     | 60,282                                | 170                      | 122                     | 54,808                                | 180                      | 132                     |
| 264,485                               | 80                       | 51                      | 260,152                               | 81                       | 52                      | 254,879                               | 81                       | 52                      |
| 150,694                               | 120                      | 80                      | 145,009                               | 119                      | 81                      | 139,126                               | 123                      | 84                      |
| 90,673                                | 152                      | 107                     | 83,385                                | 153                      | 107                     | 81,028                                | 157                      | 112                     |
| 136,006                               | 127                      | 87                      | 130,700                               | 126                      | 86                      | 130,951                               | 126                      | 86                      |
| 227,591                               | 93                       | 63                      | 224,321                               | 91                       | 60                      | 221,817                               | 91                       | 61                      |
| 1,013,128                             | 9                        | 6                       | 939,252                               | 10                       | 6                       | 955,601                               | 8                        | 6                       |
| 69,145                                | 168                      | 121                     | 63,590                                | 169                      | 121                     | 67,199                                | 166                      | 119                     |
| 175,187                               | 110                      | 36                      | 171,148                               | 108                      | 36                      | 160,461                               | 113                      | 37                      |
| 109,493                               | 139                      | 95                      | 105,355                               | 140                      | 97                      | 106,782                               | 141                      | 98                      |
| 130,746                               | 132                      | 92                      | 122,213                               | 133                      | 92                      | 120,322                               | 134                      | 93                      |
| 68,631                                | 170                      | 123                     | 65,226                                | 168                      | 120                     | 77,655                                | 160                      | 114                     |
| 1,140,833                             | 5                        | 2                       | 828,649                               | 17                       | 6                       | 792,314                               | 17                       | 7                       |
| 880,508                               | 13                       | 8                       | 852,333                               | 13                       | 8                       | 835,838                               | 14                       | 9                       |
| 90,562                                | 153                      | 108                     | 86,139                                | 149                      | 104                     | 84,393                                | 153                      | 109                     |
| 344,489                               | 64                       | 25                      | 344,921                               | 62                       | 23                      | 347,161                               | 61                       | 23                      |
| 183,478                               | 104                      | 70                      | 181,742                               | 102                      | 68                      | 181,363                               | 101                      | 67                      |
| 447,812                               | 46                       | 29                      | 420,002                               | 49                       | 32                      | 436,578                               | 46                       | 29                      |
| 662,029                               | 29                       | 12                      | 650,457                               | 27                       | 10                      | 650,506                               | 27                       | 10                      |
| 246,376                               | 85                       | 56                      | 233,650                               | 89                       | 59                      | 237,642                               | 85                       | 55                      |
| 565,708                               | 38                       | 22                      | 551,654                               | 35                       | 21                      | 526,173                               | 35                       | 21                      |
| 80,981                                | 156                      | 110                     | 77,515                                | 158                      | 111                     | 70,475                                | 164                      | 117                     |
| 237,016                               | 88                       | 59                      | 234,299                               | 88                       | 58                      | 233,737                               | 86                       | 56                      |
| 194,885                               | 101                      | 67                      | 170,277                               | 110                      | 74                      | 172,716                               | 106                      | 71                      |
| 852,095                               | 18                       | 11                      | 833,406                               | 16                       | 11                      | 794,980                               | 16                       | 10                      |
| 179,541                               | 107                      | 72                      | 173,506                               | 105                      | 71                      | 178,014                               | 103                      | 69                      |
| 442,666                               | 48                       | 31                      | 438,824                               | 47                       | 30                      | 434,627                               | 47                       | 30                      |
| 322,670                               | 71                       | 44                      | 509,409                               | 39                       | 24                      | 476,017                               | 41                       | 25                      |
| 115,606                               | 137                      | 94                      | 114,090                               | 138                      | 95                      | 109,343                               | 139                      | 96                      |
| 367,926                               | 58                       | 38                      | 339,813                               | 64                       | 41                      | 337,732                               | 64                       | 40                      |

| Total Research                                                          |                                       |                                       |                          |                         |                                       |                          |                         |
|-------------------------------------------------------------------------|---------------------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2018<br>Total<br>Research<br>x \$1000 | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Total<br>Research<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                  | University of Washington - Seattle    | 1,342,509                             | 4                        | 3                       | 1,270,642                             | 4                        | 3                       |
| Public                                                                  | University of Wisconsin - Madison     | 1,113,968                             | 9                        | 6                       | 1,105,261                             | 8                        | 5                       |
| Public                                                                  | University of Wyoming                 | 112,857                               | 147                      | 102                     | 121,927                               | 140                      | 96                      |
| Public                                                                  | Utah State University                 | 215,994                               | 100                      | 67                      | 184,746                               | 106                      | 70                      |
| Private                                                                 | Vanderbilt University                 | 702,128                               | 30                       | 13                      | 681,286                               | 30                       | 13                      |
| Public                                                                  | Virginia Commonwealth University      | 222,757                               | 99                       | 66                      | 210,827                               | 98                       | 66                      |
| Public                                                                  | Virginia Polytechnic Inst. and St. U. | 520,575                               | 47                       | 30                      | 511,340                               | 43                       | 26                      |
| Private                                                                 | Wake Forest University                | 190,991                               | 108                      | 37                      | 181,876                               | 109                      | 38                      |
| Public                                                                  | Washington State Univ. - Pullman      | 314,688                               | 75                       | 47                      | 310,607                               | 74                       | 46                      |
| Private                                                                 | Washington University in St. Louis    | 797,267                               | 25                       | 11                      | 740,005                               | 24                       | 10                      |
| Public                                                                  | Wayne State University                | 230,231                               | 96                       | 64                      | 220,199                               | 96                       | 65                      |
| Private                                                                 | Weill Cornell Medical College         | 403,485                               | 59                       | 21                      | 371,465                               | 61                       | 22                      |
| Public                                                                  | West Virginia University              | 176,082                               | 117                      | 78                      | 175,403                               | 113                      | 75                      |
| Private                                                                 | Woods Hole Oceanographic Inst.        | 204,400                               | 101                      | 34                      | 194,088                               | 101                      | 35                      |
| Public                                                                  | Wright State University - Dayton      | 67,615                                | 173                      | 125                     | 59,263                                | 179                      | 130                     |
| Private                                                                 | Yale University                       | 972,856                               | 14                       | 6                       | 930,569                               | 13                       | 6                       |
| Private                                                                 | Yeshiva University                    | 300,630                               | 78                       | 29                      | 292,943                               | 78                       | 29                      |

| 2016<br>Total<br>Research<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Total<br>Research<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Total<br>Research<br>x \$1000 | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| 1,197,773                             | 4                        | 3                       | 1,101,078                             | 4                        | 3                       | 1,091,135                             | 3                        | 2                       |
| 1,051,311                             | 7                        | 5                       | 938,366                               | 11                       | 7                       | 984,830                               | 7                        | 5                       |
| 108,552                               | 141                      | 97                      | 54,928                                | 179                      | 131                     | 48,736                                | 192                      | 143                     |
| 178,830                               | 109                      | 74                      | 173,848                               | 104                      | 70                      | 167,256                               | 110                      | 75                      |
| 612,351                               | 30                       | 13                      | 619,866                               | 30                       | 13                      | 659,418                               | 25                       | 9                       |
| 202,150                               | 99                       | 66                      | 196,412                               | 101                      | 67                      | 177,540                               | 104                      | 70                      |
| 512,333                               | 43                       | 26                      | 495,502                               | 44                       | 27                      | 502,486                               | 36                       | 22                      |
| 169,533                               | 111                      | 37                      | 171,538                               | 107                      | 35                      | 176,380                               | 105                      | 35                      |
| 307,431                               | 75                       | 48                      | 306,989                               | 74                       | 48                      | 287,942                               | 77                       | 49                      |
| 726,622                               | 25                       | 10                      | 680,150                               | 26                       | 9                       | 646,756                               | 28                       | 11                      |
| 214,306                               | 97                       | 65                      | 207,830                               | 97                       | 65                      | 213,253                               | 94                       | 62                      |
| 367,671                               | 59                       | 21                      | 309,015                               | 72                       | 26                      | 293,791                               | 75                       | 27                      |
| 164,501                               | 113                      | 76                      | 160,560                               | 114                      | 77                      | 156,946                               | 114                      | 77                      |
| 212,374                               | 98                       | 33                      | 216,592                               | 94                       | 32                      | 220,016                               | 92                       | 31                      |
| 55,241                                | 180                      | 132                     | 53,881                                | 181                      | 133                     | 54,456                                | 181                      | 133                     |
| 865,970                               | 16                       | 7                       | 792,953                               | 19                       | 8                       | 764,002                               | 18                       | 8                       |
| 335,790                               | 66                       | 26                      | 306,174                               | 75                       | 27                      | 306,826                               | 72                       | 26                      |

## The Top American Research Universities

| Federal Research                                                        |                                      |                                         |                          |                         |                                         |                          |                         |
|-------------------------------------------------------------------------|--------------------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                      | 2018<br>Federal<br>Research<br>x \$1000 | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Federal<br>Research<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                  | Arizona State University             | 244,795                                 | 56                       | 33                      | 214,845                                 | 58                       | 35                      |
| Public                                                                  | Auburn University                    | 57,718                                  | 141                      | 95                      | 54,693                                  | 142                      | 98                      |
| Public                                                                  | Augusta University                   | 48,800                                  | 153                      | 107                     | 48,921                                  | 151                      | 105                     |
| Private                                                                 | Baylor College of Medicine           | 300,098                                 | 42                       | 17                      | 292,806                                 | 42                       | 18                      |
| Private                                                                 | Boston University                    | 264,281                                 | 50                       | 23                      | 253,828                                 | 47                       | 22                      |
| Private                                                                 | Brown University                     | 161,384                                 | 79                       | 30                      | 141,864                                 | 84                       | 32                      |
| Private                                                                 | California Institute of Technology   | 268,765                                 | 47                       | 21                      | 272,323                                 | 44                       | 20                      |
| Private                                                                 | Carnegie Mellon University           | 181,958                                 | 70                       | 26                      | 189,974                                 | 65                       | 25                      |
| Private                                                                 | Case Western Reserve University      | 346,935                                 | 33                       | 16                      | 325,354                                 | 36                       | 16                      |
| Public                                                                  | Clemson University                   | 66,618                                  | 133                      | 89                      | 62,920                                  | 133                      | 90                      |
| Public                                                                  | Cleveland State University           | 54,987                                  | 146                      | 100                     | 52,317                                  | 146                      | 101                     |
| Private                                                                 | Cold Spring Harbor Laboratory        | 67,139                                  | 132                      | 44                      | 54,260                                  | 143                      | 45                      |
| Public                                                                  | Colorado State Univ. - Fort Collins  | 257,355                                 | 52                       | 29                      | 232,405                                 | 54                       | 31                      |
| Private                                                                 | Columbia University                  | 673,792                                 | 6                        | 3                       | 632,994                                 | 8                        | 4                       |
| Private                                                                 | Cornell University                   | 297,855                                 | 43                       | 18                      | 279,525                                 | 43                       | 19                      |
| Private                                                                 | Dartmouth College                    | 139,692                                 | 88                       | 33                      | 136,977                                 | 87                       | 34                      |
| Private                                                                 | Drexel University                    | 80,074                                  | 123                      | 42                      | 69,326                                  | 127                      | 43                      |
| Private                                                                 | Duke University                      | 644,179                                 | 10                       | 5                       | 622,174                                 | 9                        | 5                       |
| Private                                                                 | Emory University                     | 392,971                                 | 27                       | 15                      | 381,151                                 | 25                       | 13                      |
| Public                                                                  | Florida International University     | 80,417                                  | 122                      | 81                      | 66,351                                  | 130                      | 87                      |
| Public                                                                  | Florida State University             | 129,435                                 | 92                       | 58                      | 118,359                                 | 94                       | 60                      |
| Public                                                                  | George Mason University              | 64,315                                  | 135                      | 90                      | 52,432                                  | 145                      | 100                     |
| Private                                                                 | George Washington University         | 153,412                                 | 82                       | 32                      | 144,567                                 | 81                       | 31                      |
| Private                                                                 | Georgetown University                | 88,778                                  | 110                      | 40                      | 93,224                                  | 107                      | 38                      |
| Public                                                                  | Georgia Institute of Technology      | 646,317                                 | 9                        | 5                       | 578,107                                 | 12                       | 7                       |
| Public                                                                  | Georgia State University             | 55,241                                  | 145                      | 99                      | 54,842                                  | 141                      | 97                      |
| Private                                                                 | Harvard University                   | 578,722                                 | 13                       | 6                       | 565,269                                 | 13                       | 6                       |
| Private                                                                 | Icahn School of Med. at Mount Sinai  | 398,656                                 | 25                       | 13                      | 367,522                                 | 28                       | 15                      |
| Public                                                                  | Indiana University - Bloomington     | 245,402                                 | 55                       | 32                      | 241,350                                 | 50                       | 27                      |
| Public                                                                  | Iowa State University                | 145,241                                 | 83                       | 51                      | 125,607                                 | 91                       | 57                      |
| Private                                                                 | Johns Hopkins University             | 2,246,705                               | 1                        | 1                       | 2,173,734                               | 1                        | 1                       |
| Public                                                                  | Kansas State University              | 77,730                                  | 125                      | 83                      | 72,321                                  | 123                      | 81                      |
| Public                                                                  | Louisiana State Univ. - Baton Rouge  | 83,453                                  | 121                      | 80                      | 80,044                                  | 120                      | 78                      |
| Private                                                                 | Massachusetts Inst. of Technology    | 476,576                                 | 20                       | 10                      | 484,597                                 | 16                       | 8                       |
| Private                                                                 | Medical College of Wisconsin         | 111,273                                 | 97                       | 36                      | 108,276                                 | 98                       | 36                      |
| Public                                                                  | Medical University of South Carolina | 142,639                                 | 86                       | 54                      | 134,072                                 | 88                       | 54                      |
| Public                                                                  | Michigan State University            | 315,674                                 | 40                       | 24                      | 329,533                                 | 34                       | 19                      |
| Public                                                                  | Mississippi State University         | 88,365                                  | 112                      | 72                      | 87,435                                  | 111                      | 71                      |
| Public                                                                  | Montana State University - Bozeman   | 67,705                                  | 131                      | 88                      | 66,449                                  | 129                      | 86                      |
| Public                                                                  | Naval Postgraduate School            | 41,151                                  | 163                      | 116                     | 42,246                                  | 158                      | 110                     |
| Public                                                                  | New Jersey Institute of Technology   | 78,313                                  | 124                      | 82                      | 64,840                                  | 132                      | 89                      |
| Public                                                                  | New Mexico State Univ. - Las Cruces  | 53,417                                  | 148                      | 102                     | 59,087                                  | 136                      | 92                      |
| Private                                                                 | New York University                  | 395,445                                 | 26                       | 14                      | 369,947                                 | 27                       | 14                      |
| Public                                                                  | North Carolina State University      | 214,440                                 | 61                       | 38                      | 213,544                                 | 60                       | 37                      |
| Private                                                                 | Northeastern University              | 109,443                                 | 99                       | 37                      | 90,190                                  | 108                      | 39                      |
| Private                                                                 | Northwestern University              | 464,689                                 | 21                       | 11                      | 438,732                                 | 22                       | 11                      |
| Public                                                                  | Ohio State University - Columbus     | 439,594                                 | 24                       | 12                      | 427,154                                 | 24                       | 12                      |
| Public                                                                  | Oklahoma State Univ. - Stillwater    | 40,052                                  | 164                      | 117                     | 42,331                                  | 157                      | 109                     |
| Public                                                                  | Oregon Health & Science University   | 264,492                                 | 49                       | 27                      | 243,495                                 | 49                       | 26                      |

# The Top American Research Universities

| 2016<br>Federal<br>Research<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Federal<br>Research<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Federal<br>Research<br>x \$1000 | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| 200,280                                 | 59                       | 35                      | 186,890                                 | 65                       | 40                      | 186,126                                 | 65                       | 39                      |
| 54,258                                  | 141                      | 97                      | 47,939                                  | 149                      | 102                     | 49,739                                  | 149                      | 103                     |
| 50,294                                  | 149                      | 103                     | 50,585                                  | 144                      | 98                      | 47,771                                  | 151                      | 105                     |
| 267,849                                 | 43                       | 19                      | 256,895                                 | 48                       | 22                      | 264,641                                 | 47                       | 22                      |
| 250,523                                 | 47                       | 22                      | 256,562                                 | 49                       | 23                      | 254,285                                 | 48                       | 23                      |
| 131,751                                 | 84                       | 33                      | 127,886                                 | 83                       | 33                      | 125,005                                 | 84                       | 33                      |
| 260,489                                 | 45                       | 21                      | 269,156                                 | 44                       | 20                      | 276,447                                 | 42                       | 19                      |
| 190,620                                 | 64                       | 26                      | 187,259                                 | 64                       | 25                      | 198,247                                 | 61                       | 25                      |
| 320,402                                 | 35                       | 16                      | 307,960                                 | 36                       | 16                      | 328,548                                 | 29                       | 14                      |
| 52,184                                  | 142                      | 98                      | 45,292                                  | 153                      | 105                     | 44,673                                  | 155                      | 108                     |
| 49,659                                  | 151                      | 105                     | 41,721                                  | 157                      | 109                     | 44,139                                  | 156                      | 109                     |
| 50,478                                  | 147                      | 45                      | 49,063                                  | 148                      | 47                      | 41,845                                  | 158                      | 48                      |
| 227,624                                 | 52                       | 29                      | 213,685                                 | 54                       | 31                      | 206,958                                 | 56                       | 33                      |
| 585,578                                 | 9                        | 4                       | 577,833                                 | 7                        | 4                       | 591,523                                 | 8                        | 4                       |
| 280,461                                 | 42                       | 18                      | 277,163                                 | 41                       | 18                      | 299,320                                 | 36                       | 17                      |
| 138,641                                 | 81                       | 32                      | 145,807                                 | 79                       | 31                      | 145,080                                 | 76                       | 30                      |
| 65,193                                  | 131                      | 43                      | 67,226                                  | 127                      | 43                      | 75,557                                  | 122                      | 41                      |
| 574,738                                 | 11                       | 5                       | 558,566                                 | 9                        | 5                       | 556,847                                 | 10                       | 5                       |
| 360,197                                 | 26                       | 13                      | 346,534                                 | 25                       | 13                      | 329,254                                 | 27                       | 13                      |
| 68,539                                  | 129                      | 87                      | 67,293                                  | 126                      | 84                      | 68,946                                  | 126                      | 84                      |
| 118,294                                 | 94                       | 60                      | 133,569                                 | 82                       | 50                      | 140,995                                 | 79                       | 49                      |
| 50,687                                  | 144                      | 100                     | 54,113                                  | 140                      | 95                      | 53,775                                  | 143                      | 98                      |
| 138,735                                 | 80                       | 31                      | 135,667                                 | 81                       | 32                      | 139,148                                 | 82                       | 32                      |
| 82,819                                  | 115                      | 39                      | 87,268                                  | 105                      | 36                      | 99,567                                  | 103                      | 36                      |
| 567,100                                 | 12                       | 7                       | 548,063                                 | 11                       | 6                       | 510,422                                 | 14                       | 8                       |
| 40,897                                  | 161                      | 113                     | 36,843                                  | 164                      | 115                     | 29,470                                  | 182                      | 131                     |
| 549,539                                 | 13                       | 6                       | 530,382                                 | 13                       | 6                       | 554,944                                 | 11                       | 6                       |
| 342,104                                 | 29                       | 14                      | 329,641                                 | 31                       | 14                      | 300,667                                 | 35                       | 16                      |
| 216,917                                 | 55                       | 31                      | 206,263                                 | 57                       | 34                      | 80,109                                  | 117                      | 79                      |
| 124,242                                 | 89                       | 55                      | 113,443                                 | 95                       | 61                      | 115,285                                 | 91                       | 58                      |
| 2,100,097                               | 1                        | 1                       | 1,988,993                               | 1                        | 1                       | 1,936,953                               | 1                        | 1                       |
| 67,863                                  | 130                      | 88                      | 66,632                                  | 128                      | 85                      | 64,565                                  | 129                      | 87                      |
| 84,954                                  | 113                      | 75                      | 82,276                                  | 113                      | 75                      | 93,584                                  | 105                      | 68                      |
| 501,702                                 | 15                       | 7                       | 486,650                                 | 15                       | 7                       | 480,991                                 | 16                       | 7                       |
| 108,529                                 | 97                       | 35                      | 109,542                                 | 96                       | 35                      | 111,241                                 | 98                       | 35                      |
| 124,212                                 | 90                       | 56                      | 117,255                                 | 91                       | 57                      | 118,649                                 | 90                       | 57                      |
| 294,369                                 | 38                       | 22                      | 256,228                                 | 50                       | 27                      | 247,970                                 | 49                       | 26                      |
| 86,570                                  | 111                      | 74                      | 79,181                                  | 116                      | 77                      | 70,615                                  | 125                      | 83                      |
| 61,490                                  | 135                      | 92                      | 62,827                                  | 132                      | 89                      | 66,770                                  | 128                      | 86                      |
| 50,560                                  | 146                      | 102                     | 71,987                                  | 123                      | 81                      | 89,284                                  | 109                      | 72                      |
| 63,322                                  | 132                      | 89                      | 50,554                                  | 145                      | 99                      | 51,853                                  | 146                      | 100                     |
| 61,494                                  | 134                      | 91                      | 78,253                                  | 120                      | 80                      | 80,247                                  | 116                      | 78                      |
| 332,483                                 | 33                       | 15                      | 326,691                                 | 32                       | 15                      | 314,712                                 | 31                       | 15                      |
| 197,261                                 | 61                       | 37                      | 196,058                                 | 60                       | 37                      | 177,722                                 | 70                       | 44                      |
| 78,668                                  | 120                      | 42                      | 78,379                                  | 119                      | 40                      | 77,401                                  | 120                      | 40                      |
| 424,638                                 | 21                       | 10                      | 385,868                                 | 24                       | 12                      | 385,888                                 | 24                       | 12                      |
| 418,887                                 | 22                       | 12                      | 406,941                                 | 22                       | 12                      | 416,177                                 | 21                       | 12                      |
| 41,186                                  | 160                      | 112                     | 38,498                                  | 160                      | 112                     | 36,687                                  | 163                      | 115                     |
| 230,608                                 | 50                       | 27                      | 243,876                                 | 52                       | 29                      | 246,050                                 | 50                       | 27                      |

## The Top American Research Universities

| Federal Research                                                        |                                         |                                         |                          |                         |                                         |                          |                         |
|-------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                         | 2018<br>Federal<br>Research<br>x \$1000 | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Federal<br>Research<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                  | Oregon State University                 | 166,354                                 | 77                       | 49                      | 157,708                                 | 76                       | 49                      |
| Public                                                                  | Penn. St. Univ. - Hershey Med. Ctr.     | 55,539                                  | 144                      | 98                      | 51,070                                  | 150                      | 104                     |
| Public                                                                  | Pennsylvania State Univ. - Univ. Park   | 501,784                                 | 17                       | 10                      | 477,111                                 | 18                       | 10                      |
| Private                                                                 | Princeton University                    | 179,659                                 | 71                       | 27                      | 175,485                                 | 72                       | 27                      |
| Public                                                                  | Purdue University - West Lafayette      | 230,208                                 | 59                       | 36                      | 224,965                                 | 55                       | 32                      |
| Private                                                                 | Rensselaer Polytechnic Institute        | 46,385                                  | 156                      | 47                      | 47,749                                  | 153                      | 47                      |
| Private                                                                 | Rice University                         | 77,607                                  | 126                      | 43                      | 83,894                                  | 117                      | 42                      |
| Private                                                                 | Rockefeller University                  | 87,231                                  | 116                      | 41                      | 86,763                                  | 112                      | 41                      |
| Private                                                                 | Rush University                         | 64,178                                  | 136                      | 46                      | 51,532                                  | 148                      | 46                      |
| Public                                                                  | Rutgers University - New Brunswick      | 330,823                                 | 36                       | 20                      | 316,118                                 | 37                       | 21                      |
| Private                                                                 | Scripps Research Institute              | 267,088                                 | 48                       | 22                      | 250,090                                 | 48                       | 23                      |
| Private                                                                 | Stanford University                     | 685,871                                 | 4                        | 2                       | 684,928                                 | 4                        | 2                       |
| Public                                                                  | St. Univ. of NY - Polytechnic Institute | 41,753                                  | 162                      | 115                     | 41,247                                  | 161                      | 113                     |
| Public                                                                  | Stony Brook University                  | 134,802                                 | 89                       | 56                      | 125,150                                 | 92                       | 58                      |
| Public                                                                  | Temple University                       | 141,505                                 | 87                       | 55                      | 143,636                                 | 82                       | 51                      |
| Public                                                                  | Texas A&M Univ. - College Station       | 316,771                                 | 39                       | 23                      | 294,602                                 | 41                       | 24                      |
| Private                                                                 | Thomas Jefferson University             | 64,869                                  | 134                      | 45                      | 62,029                                  | 134                      | 44                      |
| Private                                                                 | Tufts University                        | 128,404                                 | 93                       | 35                      | 138,004                                 | 85                       | 33                      |
| Private                                                                 | Tulane University                       | 102,090                                 | 104                      | 38                      | 93,747                                  | 106                      | 37                      |
| Public                                                                  | Uniformed Services Univ. of the HS      | 218,702                                 | 60                       | 37                      | 204,241                                 | 61                       | 38                      |
| Public                                                                  | University at Albany                    | 84,561                                  | 120                      | 79                      | 82,551                                  | 119                      | 77                      |
| Public                                                                  | University at Buffalo                   | 183,124                                 | 69                       | 44                      | 184,313                                 | 68                       | 42                      |
| Public                                                                  | University of Alabama - Birmingham      | 370,401                                 | 30                       | 15                      | 356,303                                 | 31                       | 16                      |
| Public                                                                  | University of Alabama - Huntsville      | 74,315                                  | 129                      | 86                      | 68,259                                  | 128                      | 85                      |
| Public                                                                  | University of Alaska - Fairbanks        | 93,562                                  | 106                      | 68                      | 95,467                                  | 105                      | 69                      |
| Public                                                                  | University of Arizona                   | 287,852                                 | 45                       | 26                      | 269,201                                 | 45                       | 25                      |
| Public                                                                  | University of Arkansas - Fayetteville   | 48,288                                  | 154                      | 108                     | 42,198                                  | 159                      | 111                     |
| Public                                                                  | Univ. of Arkansas for Med.Sciences      | 57,523                                  | 142                      | 96                      | 51,298                                  | 149                      | 103                     |
| Public                                                                  | University of California - Berkeley     | 324,521                                 | 38                       | 22                      | 326,548                                 | 35                       | 20                      |
| Public                                                                  | University of California - Davis        | 354,823                                 | 31                       | 16                      | 337,995                                 | 33                       | 18                      |
| Public                                                                  | University of California - Irvine       | 192,182                                 | 66                       | 42                      | 178,789                                 | 71                       | 45                      |
| Public                                                                  | University of California - Los Angeles  | 557,986                                 | 14                       | 8                       | 479,799                                 | 17                       | 9                       |
| Public                                                                  | University of California - Riverside    | 75,990                                  | 128                      | 85                      | 75,920                                  | 122                      | 80                      |
| Public                                                                  | University of California - San Diego    | 634,676                                 | 12                       | 7                       | 639,643                                 | 7                        | 4                       |
| Public                                                                  | Univ. of California - San Francisco     | 669,470                                 | 8                        | 4                       | 606,768                                 | 11                       | 6                       |
| Public                                                                  | Univ. of California - Santa Barbara     | 110,065                                 | 98                       | 62                      | 113,173                                 | 95                       | 61                      |
| Public                                                                  | University of California - Santa Cruz   | 62,218                                  | 137                      | 91                      | 65,133                                  | 131                      | 88                      |
| Public                                                                  | University of Central Florida           | 89,504                                  | 109                      | 70                      | 82,777                                  | 118                      | 76                      |
| Private                                                                 | University of Chicago                   | 297,824                                 | 44                       | 19                      | 302,361                                 | 40                       | 17                      |
| Public                                                                  | University of Cincinnati - Cincinnati   | 246,400                                 | 53                       | 30                      | 239,659                                 | 51                       | 28                      |
| Public                                                                  | University of Colorado - Boulder        | 376,870                                 | 29                       | 14                      | 359,462                                 | 30                       | 15                      |
| Public                                                                  | U. of Colorado - Denver/Anschutz Med.   | 326,254                                 | 37                       | 21                      | 305,473                                 | 39                       | 23                      |
| Public                                                                  | Univ. of Connecticut - Health Center    | 50,436                                  | 151                      | 105                     | 42,093                                  | 160                      | 112                     |
| Public                                                                  | University of Connecticut - Storrs      | 88,586                                  | 111                      | 71                      | 99,884                                  | 104                      | 68                      |
| Private                                                                 | University of Dayton                    | 130,488                                 | 91                       | 34                      | 112,584                                 | 97                       | 35                      |
| Public                                                                  | University of Delaware                  | 113,582                                 | 96                       | 61                      | 113,031                                 | 96                       | 62                      |
| Public                                                                  | University of Florida                   | 340,725                                 | 34                       | 18                      | 314,187                                 | 38                       | 22                      |
| Public                                                                  | University of Georgia                   | 144,926                                 | 84                       | 52                      | 153,279                                 | 78                       | 50                      |
| Public                                                                  | University of Hawaii - Manoa            | 166,398                                 | 76                       | 48                      | 181,750                                 | 69                       | 43                      |

## The Top American Research Universities

| 2016<br>Federal<br>Research<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Federal<br>Research<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Federal<br>Research<br>x \$1000 | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| 156,437                                 | 74                       | 46                      | 150,625                                 | 77                       | 48                      | 143,815                                 | 77                       | 47                      |
| 69,425                                  | 127                      | 85                      | 59,933                                  | 135                      | 92                      | 54,404                                  | 142                      | 97                      |
| 463,244                                 | 18                       | 10                      | 447,956                                 | 19                       | 11                      | 461,896                                 | 18                       | 10                      |
| 161,562                                 | 73                       | 28                      | 157,867                                 | 75                       | 29                      | 163,805                                 | 72                       | 28                      |
| 214,373                                 | 56                       | 32                      | 209,005                                 | 56                       | 33                      | 227,857                                 | 53                       | 30                      |
| 48,887                                  | 153                      | 47                      | 59,417                                  | 136                      | 44                      | 58,940                                  | 136                      | 44                      |
| 82,643                                  | 116                      | 40                      | 73,817                                  | 122                      | 42                      | 73,782                                  | 124                      | 42                      |
| 80,667                                  | 117                      | 41                      | 81,949                                  | 114                      | 39                      | 81,820                                  | 114                      | 38                      |
| 50,332                                  | 148                      | 46                      | 52,193                                  | 142                      | 46                      | 53,501                                  | 144                      | 46                      |
| 318,123                                 | 36                       | 20                      | 320,311                                 | 35                       | 20                      | 355,116                                 | 25                       | 13                      |
| 242,489                                 | 48                       | 23                      | 274,097                                 | 42                       | 19                      | 292,268                                 | 37                       | 18                      |
| 668,578                                 | 4                        | 2                       | 645,633                                 | 4                        | 2                       | 608,342                                 | 4                        | 2                       |
| 21,380                                  | 209                      | 150                     | 14,641                                  | 233                      | 170                     | 21,208                                  | 209                      | 154                     |
| 118,296                                 | 93                       | 59                      | 115,031                                 | 93                       | 59                      | 111,386                                 | 97                       | 63                      |
| 134,132                                 | 83                       | 51                      | 119,945                                 | 89                       | 55                      | 118,892                                 | 89                       | 56                      |
| 281,015                                 | 41                       | 24                      | 291,714                                 | 38                       | 22                      | 266,877                                 | 45                       | 25                      |
| 58,866                                  | 136                      | 44                      | 58,536                                  | 137                      | 45                      | 54,676                                  | 141                      | 45                      |
| 124,363                                 | 88                       | 34                      | 120,181                                 | 88                       | 34                      | 115,046                                 | 92                       | 34                      |
| 89,028                                  | 108                      | 37                      | 84,143                                  | 109                      | 37                      | 94,287                                  | 104                      | 37                      |
| 175,007                                 | 70                       | 44                      | 299,007                                 | 37                       | 21                      | 213,389                                 | 55                       | 32                      |
| 74,092                                  | 122                      | 80                      | 78,824                                  | 118                      | 79                      | 104,861                                 | 99                       | 64                      |
| 180,095                                 | 68                       | 42                      | 174,146                                 | 70                       | 44                      | 185,144                                 | 66                       | 40                      |
| 346,190                                 | 28                       | 15                      | 325,008                                 | 33                       | 18                      | 276,112                                 | 44                       | 24                      |
| 68,882                                  | 128                      | 86                      | 66,564                                  | 130                      | 87                      | 73,913                                  | 123                      | 82                      |
| 87,829                                  | 110                      | 73                      | 78,985                                  | 117                      | 78                      | 83,483                                  | 113                      | 76                      |
| 259,443                                 | 46                       | 25                      | 265,878                                 | 46                       | 26                      | 286,595                                 | 38                       | 20                      |
| 39,527                                  | 162                      | 114                     | 33,486                                  | 170                      | 121                     | 26,014                                  | 192                      | 140                     |
| 48,999                                  | 152                      | 106                     | 50,603                                  | 143                      | 97                      | 55,556                                  | 139                      | 95                      |
| 338,562                                 | 31                       | 17                      | 342,042                                 | 26                       | 13                      | 309,305                                 | 33                       | 18                      |
| 334,534                                 | 32                       | 18                      | 322,919                                 | 34                       | 19                      | 327,697                                 | 30                       | 16                      |
| 170,674                                 | 71                       | 45                      | 170,622                                 | 72                       | 45                      | 180,431                                 | 69                       | 43                      |
| 479,718                                 | 17                       | 9                       | 482,771                                 | 16                       | 9                       | 458,157                                 | 19                       | 11                      |
| 69,924                                  | 125                      | 83                      | 62,642                                  | 133                      | 90                      | 56,327                                  | 137                      | 93                      |
| 602,336                                 | 8                        | 5                       | 601,184                                 | 5                        | 3                       | 597,270                                 | 7                        | 4                       |
| 602,705                                 | 7                        | 4                       | 535,457                                 | 12                       | 7                       | 544,697                                 | 12                       | 6                       |
| 114,884                                 | 95                       | 61                      | 114,596                                 | 94                       | 60                      | 119,816                                 | 87                       | 54                      |
| 93,651                                  | 104                      | 68                      | 91,249                                  | 104                      | 69                      | 89,206                                  | 110                      | 73                      |
| 80,365                                  | 118                      | 77                      | 81,788                                  | 115                      | 76                      | 64,323                                  | 130                      | 88                      |
| 293,557                                 | 39                       | 17                      | 290,776                                 | 39                       | 17                      | 276,237                                 | 43                       | 20                      |
| 229,761                                 | 51                       | 28                      | 250,457                                 | 51                       | 28                      | 243,705                                 | 51                       | 28                      |
| 360,827                                 | 25                       | 13                      | 341,828                                 | 27                       | 14                      | 302,877                                 | 34                       | 19                      |
| 289,757                                 | 40                       | 23                      | 266,147                                 | 45                       | 25                      | 277,209                                 | 41                       | 23                      |
| 44,029                                  | 156                      | 108                     | 43,512                                  | 155                      | 107                     | 59,277                                  | 135                      | 92                      |
| 99,926                                  | 101                      | 66                      | 91,837                                  | 103                      | 68                      | 80,317                                  | 115                      | 77                      |
| 97,635                                  | 102                      | 36                      | 74,548                                  | 121                      | 41                      | 63,881                                  | 131                      | 43                      |
| 108,378                                 | 98                       | 63                      | 109,258                                 | 97                       | 62                      | 111,933                                 | 96                       | 62                      |
| 297,267                                 | 37                       | 21                      | 281,317                                 | 40                       | 23                      | 279,920                                 | 40                       | 22                      |
| 138,374                                 | 82                       | 50                      | 127,825                                 | 84                       | 51                      | 122,145                                 | 85                       | 52                      |
| 189,683                                 | 65                       | 39                      | 199,818                                 | 58                       | 35                      | 202,574                                 | 59                       | 35                      |

## The Top American Research Universities

| Federal Research                                                        |                                       |                                         |                          |                         |                                         |                          |                         |
|-------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2018<br>Federal<br>Research<br>x \$1000 | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Federal<br>Research<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                  | University of Houston - Univ. Park    | 62,134                                  | 138                      | 92                      | 57,263                                  | 137                      | 93                      |
| Public                                                                  | University of Idaho                   | 47,475                                  | 155                      | 109                     | 48,879                                  | 152                      | 106                     |
| Public                                                                  | University of Illinois - Chicago      | 189,322                                 | 68                       | 43                      | 188,730                                 | 67                       | 41                      |
| Public                                                                  | Univ. of Illinois - Urbana-Champaign  | 339,732                                 | 35                       | 19                      | 344,657                                 | 32                       | 17                      |
| Public                                                                  | University of Iowa                    | 243,216                                 | 57                       | 34                      | 236,679                                 | 52                       | 29                      |
| Public                                                                  | University of Kansas - Lawrence       | 85,397                                  | 119                      | 78                      | 85,807                                  | 113                      | 72                      |
| Public                                                                  | University of Kansas Medical Center   | 44,639                                  | 158                      | 111                     | 40,302                                  | 163                      | 115                     |
| Public                                                                  | University of Kentucky                | 168,968                                 | 73                       | 46                      | 168,347                                 | 73                       | 46                      |
| Public                                                                  | University of Louisville              | 77,281                                  | 127                      | 84                      | 69,722                                  | 126                      | 84                      |
| Public                                                                  | University of Maine - Orono           | 45,206                                  | 157                      | 110                     | 37,189                                  | 166                      | 118                     |
| Public                                                                  | University of Maryland - Baltimore    | 263,732                                 | 51                       | 28                      | 214,270                                 | 59                       | 36                      |
| Public                                                                  | Univ. of Maryland - Baltimore County  | 52,934                                  | 149                      | 103                     | 52,008                                  | 147                      | 102                     |
| Public                                                                  | Univ. of Maryland - College Park      | 351,952                                 | 32                       | 17                      | 361,269                                 | 29                       | 14                      |
| Public                                                                  | Univ. of Massachusetts - Amherst      | 103,555                                 | 103                      | 66                      | 101,992                                 | 102                      | 66                      |
| Public                                                                  | Univ. of Mass. Med. Sch. - Worcester  | 194,953                                 | 65                       | 41                      | 200,232                                 | 62                       | 39                      |
| Private                                                                 | University of Miami                   | 191,408                                 | 67                       | 25                      | 193,549                                 | 64                       | 24                      |
| Public                                                                  | University of Michigan - Ann Arbor    | 841,158                                 | 3                        | 2                       | 822,436                                 | 3                        | 2                       |
| Public                                                                  | University of Minnesota - Twin Cities | 455,294                                 | 23                       | 11                      | 448,814                                 | 20                       | 11                      |
| Public                                                                  | University of Missouri - Columbia     | 108,254                                 | 100                      | 63                      | 106,804                                 | 100                      | 64                      |
| Public                                                                  | University of Montana - Missoula      | 51,975                                  | 150                      | 104                     | 44,465                                  | 155                      | 107                     |
| Public                                                                  | University of Nebraska - Lincoln      | 102,078                                 | 105                      | 67                      | 99,956                                  | 103                      | 67                      |
| Public                                                                  | University of Nebraska Medical Ctr.   | 93,463                                  | 107                      | 69                      | 84,814                                  | 116                      | 75                      |
| Public                                                                  | University of Nevada - Reno           | 59,879                                  | 140                      | 94                      | 53,438                                  | 144                      | 99                      |
| Public                                                                  | Univ. of New Hampshire - Durham       | 87,854                                  | 115                      | 75                      | 85,714                                  | 114                      | 73                      |
| Public                                                                  | Univ. of New Mexico - Albuquerque     | 167,315                                 | 74                       | 47                      | 159,583                                 | 75                       | 48                      |
| Public                                                                  | Univ. of North Carolina - Chapel Hill | 681,581                                 | 5                        | 3                       | 657,879                                 | 5                        | 3                       |
| Public                                                                  | University of North Dakota            | 48,858                                  | 152                      | 106                     | 40,845                                  | 162                      | 114                     |
| Private                                                                 | University of Notre Dame              | 92,144                                  | 108                      | 39                      | 90,038                                  | 109                      | 40                      |
| Public                                                                  | University of Oklahoma - HSC          | 54,481                                  | 147                      | 101                     | 56,162                                  | 140                      | 96                      |
| Public                                                                  | University of Oklahoma - Norman       | 87,989                                  | 114                      | 74                      | 70,348                                  | 124                      | 82                      |
| Public                                                                  | University of Oregon                  | 56,403                                  | 143                      | 97                      | 57,092                                  | 138                      | 94                      |
| Private                                                                 | University of Pennsylvania            | 671,796                                 | 7                        | 4                       | 653,405                                 | 6                        | 3                       |
| Public                                                                  | University of Pittsburgh - Pittsburgh | 643,129                                 | 11                       | 6                       | 612,754                                 | 10                       | 5                       |
| Public                                                                  | University of Rhode Island            | 61,135                                  | 139                      | 93                      | 59,623                                  | 135                      | 91                      |
| Private                                                                 | University of Rochester               | 283,973                                 | 46                       | 20                      | 267,040                                 | 46                       | 21                      |
| Public                                                                  | Univ. of South Carolina - Columbia    | 88,117                                  | 113                      | 73                      | 89,565                                  | 110                      | 70                      |
| Public                                                                  | University of South Florida - Tampa   | 245,414                                 | 54                       | 31                      | 234,871                                 | 53                       | 30                      |
| Private                                                                 | University of Southern California     | 488,081                                 | 19                       | 9                       | 436,515                                 | 23                       | 12                      |
| Public                                                                  | University of Tennessee - Knoxville   | 143,406                                 | 85                       | 53                      | 142,549                                 | 83                       | 52                      |
| Public                                                                  | University of Texas - Austin          | 386,954                                 | 28                       | 13                      | 377,389                                 | 26                       | 13                      |
| Public                                                                  | University of Texas - El Paso         | 43,214                                  | 160                      | 113                     | 43,759                                  | 156                      | 108                     |
| Public                                                                  | University of Texas HSC - Houston     | 128,232                                 | 94                       | 59                      | 124,461                                 | 93                       | 59                      |
| Public                                                                  | Univ. of Texas HSC - San Antonio      | 86,956                                  | 117                      | 76                      | 85,455                                  | 115                      | 74                      |
| Public                                                                  | U. of Texas MD Anderson Cancer Ctr.   | 173,206                                 | 72                       | 45                      | 166,552                                 | 74                       | 47                      |
| Public                                                                  | U. of Texas Med. Branch - Galveston   | 104,356                                 | 102                      | 65                      | 104,458                                 | 101                      | 65                      |
| Public                                                                  | Univ. of Texas SW Med. Ctr. - Dallas  | 197,910                                 | 62                       | 39                      | 200,085                                 | 63                       | 40                      |
| Public                                                                  | University of Utah                    | 302,586                                 | 41                       | 25                      | 218,405                                 | 56                       | 33                      |
| Public                                                                  | University of Vermont                 | 86,936                                  | 118                      | 77                      | 78,383                                  | 121                      | 79                      |
| Public                                                                  | University of Virginia                | 231,161                                 | 58                       | 35                      | 215,193                                 | 57                       | 34                      |

# The Top American Research Universities

| 2016<br>Federal<br>Research<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Federal<br>Research<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Federal<br>Research<br>x \$1000 | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| 58,085                                  | 138                      | 94                      | 54,516                                  | 139                      | 94                      | 55,574                                  | 138                      | 94                      |
| 50,083                                  | 150                      | 104                     | 49,591                                  | 147                      | 101                     | 49,423                                  | 150                      | 104                     |
| 175,302                                 | 69                       | 43                      | 192,930                                 | 61                       | 38                      | 201,646                                 | 60                       | 36                      |
| 320,703                                 | 34                       | 19                      | 330,479                                 | 30                       | 17                      | 336,172                                 | 26                       | 14                      |
| 236,363                                 | 49                       | 26                      | 223,730                                 | 53                       | 30                      | 234,122                                 | 52                       | 29                      |
| 79,916                                  | 119                      | 78                      | 85,862                                  | 107                      | 71                      | 88,725                                  | 111                      | 74                      |
| 37,633                                  | 165                      | 117                     | 42,512                                  | 156                      | 108                     | 42,461                                  | 157                      | 110                     |
| 152,708                                 | 77                       | 49                      | 145,097                                 | 80                       | 49                      | 140,450                                 | 80                       | 50                      |
| 69,781                                  | 126                      | 84                      | 66,100                                  | 131                      | 88                      | 63,258                                  | 132                      | 89                      |
| 34,125                                  | 170                      | 122                     | 35,033                                  | 167                      | 118                     | 50,338                                  | 148                      | 102                     |
| 200,698                                 | 58                       | 34                      | 211,773                                 | 55                       | 32                      | 220,700                                 | 54                       | 31                      |
| 50,645                                  | 145                      | 101                     | 47,591                                  | 150                      | 103                     | 46,993                                  | 152                      | 106                     |
| 354,788                                 | 27                       | 14                      | 332,079                                 | 28                       | 15                      | 328,828                                 | 28                       | 15                      |
| 97,576                                  | 103                      | 67                      | 97,206                                  | 101                      | 66                      | 102,682                                 | 101                      | 66                      |
| 181,446                                 | 67                       | 41                      | 183,588                                 | 68                       | 43                      | 183,582                                 | 68                       | 42                      |
| 194,346                                 | 62                       | 25                      | 192,691                                 | 62                       | 24                      | 202,818                                 | 58                       | 24                      |
| 780,080                                 | 3                        | 2                       | 728,712                                 | 3                        | 2                       | 733,779                                 | 3                        | 2                       |
| 462,570                                 | 19                       | 11                      | 468,482                                 | 18                       | 10                      | 483,542                                 | 15                       | 9                       |
| 105,125                                 | 99                       | 64                      | 102,852                                 | 99                       | 64                      | 102,784                                 | 100                      | 65                      |
| 38,726                                  | 163                      | 115                     | 33,617                                  | 168                      | 119                     | 30,164                                  | 179                      | 129                     |
| 93,532                                  | 105                      | 69                      | 94,763                                  | 102                      | 67                      | 93,190                                  | 106                      | 69                      |
| 76,221                                  | 121                      | 79                      | 71,918                                  | 124                      | 82                      | 76,195                                  | 121                      | 81                      |
| 51,630                                  | 143                      | 99                      | 49,977                                  | 146                      | 100                     | 50,904                                  | 147                      | 101                     |
| 89,457                                  | 107                      | 71                      | 83,106                                  | 111                      | 74                      | 89,640                                  | 107                      | 70                      |
| 153,100                                 | 76                       | 48                      | 151,619                                 | 76                       | 47                      | 151,082                                 | 75                       | 46                      |
| 624,131                                 | 6                        | 3                       | 577,574                                 | 8                        | 4                       | 601,933                                 | 6                        | 3                       |
| 42,253                                  | 157                      | 109                     | 37,457                                  | 163                      | 114                     | 40,191                                  | 160                      | 112                     |
| 85,870                                  | 112                      | 38                      | 82,615                                  | 112                      | 38                      | 79,192                                  | 119                      | 39                      |
| 56,107                                  | 139                      | 95                      | 53,398                                  | 141                      | 96                      | 55,133                                  | 140                      | 96                      |
| 72,153                                  | 123                      | 81                      | 69,520                                  | 125                      | 83                      | 53,223                                  | 145                      | 99                      |
| 55,137                                  | 140                      | 96                      | 56,448                                  | 138                      | 93                      | 62,824                                  | 133                      | 90                      |
| 638,336                                 | 5                        | 3                       | 597,791                                 | 6                        | 3                       | 606,115                                 | 5                        | 3                       |
| 575,281                                 | 10                       | 6                       | 554,658                                 | 10                       | 5                       | 565,409                                 | 9                        | 5                       |
| 58,438                                  | 137                      | 93                      | 61,085                                  | 134                      | 91                      | 61,836                                  | 134                      | 91                      |
| 265,430                                 | 44                       | 20                      | 261,023                                 | 47                       | 21                      | 265,686                                 | 46                       | 21                      |
| 88,231                                  | 109                      | 72                      | 84,723                                  | 108                      | 72                      | 87,844                                  | 112                      | 75                      |
| 210,823                                 | 57                       | 33                      | 196,215                                 | 59                       | 36                      | 205,155                                 | 57                       | 34                      |
| 396,197                                 | 23                       | 11                      | 408,105                                 | 21                       | 10                      | 421,887                                 | 20                       | 9                       |
| 125,528                                 | 85                       | 52                      | 116,928                                 | 92                       | 58                      | 122,120                                 | 86                       | 53                      |
| 340,181                                 | 30                       | 16                      | 331,388                                 | 29                       | 16                      | 313,955                                 | 32                       | 17                      |
| 41,384                                  | 159                      | 111                     | 40,334                                  | 158                      | 110                     | 34,528                                  | 166                      | 118                     |
| 121,098                                 | 92                       | 58                      | 125,890                                 | 85                       | 52                      | 136,145                                 | 83                       | 51                      |
| 89,742                                  | 106                      | 70                      | 85,940                                  | 106                      | 70                      | 89,303                                  | 108                      | 71                      |
| 155,044                                 | 75                       | 47                      | 161,171                                 | 74                       | 46                      | 158,986                                 | 73                       | 45                      |
| 100,464                                 | 100                      | 65                      | 98,050                                  | 100                      | 65                      | 101,761                                 | 102                      | 67                      |
| 185,263                                 | 66                       | 40                      | 183,787                                 | 67                       | 42                      | 185,137                                 | 67                       | 41                      |
| 224,270                                 | 53                       | 30                      | 270,311                                 | 43                       | 24                      | 284,125                                 | 39                       | 21                      |
| 83,124                                  | 114                      | 76                      | 83,733                                  | 110                      | 73                      | 79,727                                  | 118                      | 80                      |
| 198,760                                 | 60                       | 36                      | 186,676                                 | 66                       | 41                      | 192,907                                 | 63                       | 38                      |

| Federal Research                                                        |                                       |                                         |                          |                         |                                         |                          |                         |
|-------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2018<br>Federal<br>Research<br>x \$1000 | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Federal<br>Research<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                  | University of Washington - Seattle    | 955,518                                 | 2                        | 1                       | 912,856                                 | 2                        | 1                       |
| Public                                                                  | University of Wisconsin - Madison     | 555,666                                 | 15                       | 9                       | 552,983                                 | 14                       | 8                       |
| Public                                                                  | University of Wyoming                 | 42,538                                  | 161                      | 114                     | 56,178                                  | 139                      | 95                      |
| Public                                                                  | Utah State University                 | 158,576                                 | 80                       | 50                      | 137,295                                 | 86                       | 53                      |
| Private                                                                 | Vanderbilt University                 | 456,599                                 | 22                       | 12                      | 442,669                                 | 21                       | 10                      |
| Public                                                                  | Virginia Commonwealth University      | 122,771                                 | 95                       | 60                      | 127,341                                 | 90                       | 56                      |
| Public                                                                  | Virginia Polytechnic Inst. and St. U. | 195,140                                 | 64                       | 40                      | 181,379                                 | 70                       | 44                      |
| Private                                                                 | Wake Forest University                | 154,031                                 | 81                       | 31                      | 147,746                                 | 80                       | 30                      |
| Public                                                                  | Washington State Unive. - Pullman     | 131,229                                 | 90                       | 57                      | 133,308                                 | 89                       | 55                      |
| Private                                                                 | Washington University in St. Louis    | 496,648                                 | 18                       | 8                       | 468,637                                 | 19                       | 9                       |
| Public                                                                  | Wayne State University                | 107,791                                 | 101                      | 64                      | 106,865                                 | 99                       | 63                      |
| Private                                                                 | Weill Cornell Medical College         | 166,613                                 | 75                       | 28                      | 155,830                                 | 77                       | 28                      |
| Public                                                                  | West Virginia University              | 73,518                                  | 130                      | 87                      | 70,256                                  | 125                      | 83                      |
| Private                                                                 | Woods Hole Oceanographic Inst.        | 163,003                                 | 78                       | 29                      | 148,491                                 | 79                       | 29                      |
| Public                                                                  | Wright State University - Dayton      | 43,359                                  | 159                      | 112                     | 35,514                                  | 168                      | 120                     |
| Private                                                                 | Yale University                       | 549,026                                 | 16                       | 7                       | 531,995                                 | 15                       | 7                       |
| Private                                                                 | Yeshiva University                    | 197,140                                 | 63                       | 24                      | 189,075                                 | 66                       | 26                      |

| 2016<br>Federal<br>Research<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Federal<br>Research<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Federal<br>Research<br>x \$1000 | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| 893,050                                 | 2                        | 1                       | 851,573                                 | 2                        | 1                       | 849,713                                 | 2                        | 1                       |
| 548,247                                 | 14                       | 8                       | 506,910                                 | 14                       | 8                       | 522,251                                 | 13                       | 7                       |
| 63,223                                  | 133                      | 90                      | 47,232                                  | 151                      | 104                     | 39,778                                  | 162                      | 114                     |
| 124,981                                 | 86                       | 53                      | 119,811                                 | 90                       | 56                      | 114,075                                 | 93                       | 59                      |
| 395,505                                 | 24                       | 12                      | 390,701                                 | 23                       | 11                      | 408,743                                 | 23                       | 11                      |
| 124,962                                 | 87                       | 54                      | 123,665                                 | 86                       | 53                      | 119,507                                 | 88                       | 55                      |
| 190,975                                 | 63                       | 38                      | 191,080                                 | 63                       | 39                      | 198,092                                 | 62                       | 37                      |
| 140,651                                 | 79                       | 30                      | 148,084                                 | 78                       | 30                      | 153,069                                 | 74                       | 29                      |
| 122,275                                 | 91                       | 57                      | 121,627                                 | 87                       | 54                      | 112,568                                 | 95                       | 61                      |
| 436,229                                 | 20                       | 9                       | 424,723                                 | 20                       | 9                       | 410,115                                 | 22                       | 10                      |
| 109,460                                 | 96                       | 62                      | 108,221                                 | 98                       | 63                      | 112,608                                 | 94                       | 60                      |
| 147,479                                 | 78                       | 29                      | 168,103                                 | 73                       | 28                      | 139,514                                 | 81                       | 31                      |
| 70,313                                  | 124                      | 82                      | 66,608                                  | 129                      | 86                      | 67,450                                  | 127                      | 85                      |
| 166,010                                 | 72                       | 27                      | 172,995                                 | 71                       | 27                      | 177,616                                 | 71                       | 27                      |
| 30,093                                  | 175                      | 126                     | 26,814                                  | 189                      | 137                     | 27,523                                  | 187                      | 135                     |
| 494,504                                 | 16                       | 8                       | 471,381                                 | 17                       | 8                       | 475,585                                 | 17                       | 8                       |
| 218,787                                 | 54                       | 24                      | 180,791                                 | 69                       | 26                      | 186,885                                 | 64                       | 26                      |

| Research by Major Discipline                                            |                                          | 2018 Total Research by Major Discipline |                          |                        |                     |                          |              |
|-------------------------------------------------------------------------|------------------------------------------|-----------------------------------------|--------------------------|------------------------|---------------------|--------------------------|--------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                          | Percent Life Science                    | Percent Physical Science | Percent Enviro Science | Percent Eng Science | Percent Computer Science | Percent Math |
| Public                                                                  | Arizona State University                 | 22.3%                                   | 4.4%                     | 14.7%                  | 25.4%               | 3.4%                     | 1.2%         |
| Public                                                                  | Auburn University                        | 55.0%                                   | 6.3%                     | 1.2%                   | 30.5%               | 1.4%                     | 0.4%         |
| Public                                                                  | Augusta University                       | 99.9%                                   | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Private                                                                 | Baylor College of Medicine               | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Private                                                                 | Boston University                        | 62.5%                                   | 6.9%                     | 1.6%                   | 19.0%               | 1.2%                     | 1.1%         |
| Private                                                                 | Brown University                         | 52.5%                                   | 8.9%                     | 1.8%                   | 12.0%               | 5.4%                     | 5.2%         |
| Private                                                                 | California Institute of Technology       | 22.1%                                   | 52.0%                    | 8.8%                   | 12.5%               | 4.2%                     | 0.4%         |
| Private                                                                 | Carnegie Mellon University               | 3.9%                                    | 6.3%                     | 0.5%                   | 31.2%               | 44.4%                    | 2.9%         |
| Private                                                                 | Case Western Reserve University          | 86.3%                                   | 1.3%                     | 0.2%                   | 10.7%               | 0.0%                     | 0.2%         |
| Public                                                                  | Clemson University                       | 35.8%                                   | 7.7%                     | 0.0%                   | 45.8%               | 3.7%                     | 2.9%         |
| Public                                                                  | Cleveland State University               | 67.7%                                   | 1.7%                     | 0.0%                   | 19.7%               | 0.0%                     | 1.4%         |
| Private                                                                 | Cold Spring Harbor Laboratory            | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | Colorado State University - Fort Collins | 45.1%                                   | 3.9%                     | 32.7%                  | 10.9%               | 1.2%                     | 1.2%         |
| Private                                                                 | Columbia University                      | 74.1%                                   | 3.5%                     | 8.8%                   | 8.0%                | 2.5%                     | 0.6%         |
| Private                                                                 | Cornell University                       | 53.0%                                   | 19.4%                    | 1.0%                   | 14.7%               | 4.6%                     | 0.6%         |
| Private                                                                 | Dartmouth College                        | 62.2%                                   | 6.6%                     | 1.7%                   | 11.1%               | 5.1%                     | 2.0%         |
| Private                                                                 | Drexel University                        | 64.9%                                   | 2.6%                     | 0.0%                   | 21.4%               | 4.5%                     | 0.5%         |
| Private                                                                 | Duke University                          | 84.2%                                   | 1.7%                     | 1.0%                   | 8.0%                | 0.5%                     | 0.8%         |
| Private                                                                 | Emory University                         | 93.8%                                   | 3.2%                     | 0.2%                   | 0.9%                | 0.2%                     | 0.4%         |
| Public                                                                  | Florida International University         | 28.3%                                   | 11.3%                    | 8.9%                   | 19.0%               | 8.8%                     | 0.7%         |
| Public                                                                  | Florida State University                 | 20.9%                                   | 26.0%                    | 7.9%                   | 21.6%               | 4.5%                     | 2.1%         |
| Public                                                                  | George Mason University                  | 14.3%                                   | 3.8%                     | 9.5%                   | 12.6%               | 14.9%                    | 1.3%         |
| Private                                                                 | George Washington University             | 71.8%                                   | 3.0%                     | 0.3%                   | 7.1%                | 2.7%                     | 0.5%         |
| Private                                                                 | Georgetown University                    | 74.4%                                   | 3.4%                     | 0.3%                   | 0.0%                | 2.0%                     | 0.1%         |
| Public                                                                  | Georgia Institute of Technology          | 4.2%                                    | 4.4%                     | 1.4%                   | 71.4%               | 16.5%                    | 0.9%         |
| Public                                                                  | Georgia State University                 | 57.1%                                   | 12.9%                    | 0.8%                   | 0.0%                | 2.4%                     | 1.5%         |
| Private                                                                 | Harvard University                       | 61.6%                                   | 7.9%                     | 4.0%                   | 9.1%                | 1.4%                     | 2.1%         |
| Private                                                                 | Icahn School of Medicine at Mount Sinai  | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | Indiana University - Bloomington         | 75.0%                                   | 4.9%                     | 1.0%                   | 1.5%                | 4.8%                     | 0.4%         |
| Public                                                                  | Iowa State University                    | 44.1%                                   | 12.3%                    | 1.1%                   | 28.9%               | 3.0%                     | 5.1%         |
| Private                                                                 | Johns Hopkins University                 | 37.3%                                   | 9.2%                     | 1.3%                   | 40.9%               | 6.1%                     | 3.0%         |
| Public                                                                  | Kansas State University                  | 66.5%                                   | 6.7%                     | 1.3%                   | 13.2%               | 1.7%                     | 1.5%         |
| Public                                                                  | Louisiana State University - Baton Rouge | 55.5%                                   | 8.7%                     | 11.3%                  | 16.0%               | 2.3%                     | 0.8%         |
| Private                                                                 | Massachusetts Institute of Technology    | 15.5%                                   | 13.9%                    | 4.7%                   | 48.3%               | 9.6%                     | 1.1%         |
| Private                                                                 | Medical College of Wisconsin             | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | Medical University of South Carolina     | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | Michigan State University                | 50.5%                                   | 25.1%                    | 0.6%                   | 11.4%               | 2.2%                     | 1.8%         |
| Public                                                                  | Mississippi State University             | 48.0%                                   | 4.3%                     | 3.8%                   | 20.5%               | 2.7%                     | 0.6%         |
| Public                                                                  | Montana State University - Bozeman       | 57.2%                                   | 9.5%                     | 4.5%                   | 22.4%               | 1.0%                     | 0.7%         |
| Public                                                                  | Naval Postgraduate School                | 2.5%                                    | 11.6%                    | 13.8%                  | 37.4%               | 14.7%                    | 5.2%         |
| Public                                                                  | New Jersey Institute of Technology       | 22.1%                                   | 10.5%                    | 0.0%                   | 56.0%               | 7.9%                     | 3.4%         |
| Public                                                                  | New Mexico State University - Las Cruces | 39.4%                                   | 27.4%                    | 5.3%                   | 24.5%               | 2.3%                     | 0.1%         |
| Private                                                                 | New York University                      | 76.0%                                   | 3.0%                     | 0.0%                   | 10.7%               | 2.1%                     | 1.3%         |
| Public                                                                  | North Carolina State University          | 46.4%                                   | 4.3%                     | 4.0%                   | 33.5%               | 2.3%                     | 4.4%         |
| Private                                                                 | Northeastern University                  | 19.9%                                   | 11.2%                    | 2.7%                   | 41.6%               | 12.3%                    | 0.6%         |
| Private                                                                 | Northwestern University                  | 71.5%                                   | 10.6%                    | 0.2%                   | 10.5%               | 0.3%                     | 0.4%         |
| Public                                                                  | Ohio State University - Columbus         | 61.9%                                   | 4.9%                     | 1.1%                   | 22.4%               | 2.5%                     | 0.9%         |
| Public                                                                  | Oklahoma State University - Stillwater   | 52.3%                                   | 5.5%                     | 2.9%                   | 24.0%               | 2.2%                     | 3.2%         |
| Public                                                                  | Oregon Health & Science University       | 96.7%                                   | 0.0%                     | 0.0%                   | 3.2%                | 0.0%                     | 0.0%         |

|                    |                        |                       | 2018 Federal Research by Major Discipline |                          |                        |                     |                          |              |                    |                        |                       |
|--------------------|------------------------|-----------------------|-------------------------------------------|--------------------------|------------------------|---------------------|--------------------------|--------------|--------------------|------------------------|-----------------------|
| Percent Psychology | Percent Social Science | Percent Other Science | Percent Life Science                      | Percent Physical Science | Percent Enviro Science | Percent Eng Science | Percent Computer Science | Percent Math | Percent Psychology | Percent Social Science | Percent Other Science |
| 3.4%               | 14.3%                  | 10.8%                 | 26.2%                                     | 4.9%                     | 21.4%                  | 25.0%               | 4.5%                     | 1.5%         | 4.6%               | 7.5%                   | 4.5%                  |
| 1.0%               | 3.2%                   | 1.0%                  | 43.0%                                     | 8.6%                     | 2.5%                   | 37.2%               | 1.0%                     | 0.7%         | 0.8%               | 4.6%                   | 1.6%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 99.9%                                     | 0.0%                     | 0.0%                   | 0.0%                | 0.1%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 4.8%               | 1.8%                   | 1.0%                  | 66.6%                                     | 7.3%                     | 2.0%                   | 16.2%               | 0.9%                     | 1.2%         | 5.0%               | 0.4%                   | 0.4%                  |
| 2.0%               | 7.9%                   | 4.3%                  | 55.4%                                     | 8.0%                     | 1.3%                   | 12.9%               | 5.2%                     | 5.7%         | 2.8%               | 4.9%                   | 3.7%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 20.1%                                     | 57.9%                    | 8.5%                   | 8.4%                | 4.8%                     | 0.3%         | 0.0%               | 0.0%                   | 0.0%                  |
| 2.9%               | 5.2%                   | 2.6%                  | 3.9%                                      | 5.3%                     | 0.5%                   | 29.5%               | 48.1%                    | 1.9%         | 4.5%               | 3.7%                   | 2.6%                  |
| 0.4%               | 0.7%                   | 0.0%                  | 87.8%                                     | 1.3%                     | 0.2%                   | 9.6%                | 0.1%                     | 0.2%         | 0.3%               | 0.5%                   | 0.0%                  |
| 0.5%               | 3.6%                   | 0.0%                  | 26.4%                                     | 9.1%                     | 0.0%                   | 50.7%               | 5.9%                     | 2.6%         | 0.7%               | 4.6%                   | 0.0%                  |
| 1.2%               | 8.4%                   | 0.0%                  | 81.6%                                     | 0.5%                     | 0.0%                   | 16.3%               | 0.0%                     | 0.8%         | 0.3%               | 0.4%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 1.2%               | 2.7%                   | 1.0%                  | 39.5%                                     | 3.9%                     | 39.1%                  | 11.3%               | 1.5%                     | 1.5%         | 1.3%               | 1.9%                   | 0.0%                  |
| 0.4%               | 2.1%                   | 0.0%                  | 72.4%                                     | 4.1%                     | 9.7%                   | 9.2%                | 3.1%                     | 0.6%         | 0.4%               | 0.6%                   | 0.0%                  |
| 1.8%               | 5.0%                   | 0.0%                  | 37.6%                                     | 29.1%                    | 1.7%                   | 18.7%               | 6.6%                     | 0.9%         | 1.4%               | 3.9%                   | 0.0%                  |
| 3.2%               | 6.4%                   | 1.8%                  | 71.8%                                     | 4.2%                     | 1.0%                   | 15.3%               | 3.5%                     | 0.4%         | 3.0%               | 0.4%                   | 0.4%                  |
| 2.9%               | 2.2%                   | 1.2%                  | 59.3%                                     | 2.9%                     | 0.0%                   | 26.5%               | 5.0%                     | 0.8%         | 3.0%               | 2.1%                   | 0.3%                  |
| 0.8%               | 3.0%                   | 0.0%                  | 80.0%                                     | 2.5%                     | 1.1%                   | 10.0%               | 0.8%                     | 1.2%         | 1.1%               | 3.1%                   | 0.0%                  |
| 0.7%               | 0.5%                   | 0.0%                  | 93.5%                                     | 3.6%                     | 0.3%                   | 0.7%                | 0.0%                     | 0.5%         | 1.1%               | 0.2%                   | 0.0%                  |
| 14.5%              | 6.6%                   | 1.9%                  | 26.2%                                     | 11.2%                    | 9.9%                   | 21.4%               | 13.7%                    | 0.1%         | 14.9%              | 1.8%                   | 0.8%                  |
| 6.0%               | 7.6%                   | 3.3%                  | 19.5%                                     | 29.9%                    | 6.4%                   | 30.2%               | 3.6%                     | 1.5%         | 7.1%               | 1.1%                   | 0.7%                  |
| 2.4%               | 41.1%                  | 0.0%                  | 17.6%                                     | 7.0%                     | 16.8%                  | 21.1%               | 27.3%                    | 1.5%         | 3.4%               | 5.2%                   | 0.0%                  |
| 1.3%               | 11.5%                  | 2.0%                  | 76.3%                                     | 3.1%                     | 0.4%                   | 7.2%                | 2.8%                     | 0.5%         | 1.5%               | 6.0%                   | 2.3%                  |
| 1.3%               | 17.3%                  | 1.3%                  | 84.5%                                     | 5.2%                     | 0.0%                   | 0.0%                | 2.0%                     | 0.2%         | 1.4%               | 6.8%                   | 0.0%                  |
| 0.5%               | 0.7%                   | 0.0%                  | 2.5%                                      | 3.6%                     | 1.3%                   | 72.2%               | 19.0%                    | 0.5%         | 0.4%               | 0.5%                   | 0.0%                  |
| 6.6%               | 18.7%                  | 0.0%                  | 63.3%                                     | 20.0%                    | 0.9%                   | 0.0%                | 2.7%                     | 1.8%         | 5.6%               | 5.7%                   | 0.0%                  |
| 0.8%               | 12.6%                  | 0.5%                  | 67.3%                                     | 9.1%                     | 4.6%                   | 8.9%                | 2.0%                     | 3.3%         | 0.5%               | 4.3%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 3.0%               | 7.2%                   | 2.1%                  | 75.4%                                     | 7.8%                     | 0.7%                   | 1.5%                | 5.9%                     | 0.6%         | 3.9%               | 3.7%                   | 0.5%                  |
| 3.7%               | 1.3%                   | 0.6%                  | 37.3%                                     | 18.4%                    | 1.1%                   | 30.1%               | 3.9%                     | 6.3%         | 2.3%               | 0.6%                   | 0.1%                  |
| 0.1%               | 0.3%                   | 1.8%                  | 29.7%                                     | 10.2%                    | 1.3%                   | 46.2%               | 6.8%                     | 3.3%         | 0.1%               | 0.3%                   | 2.0%                  |
| 3.3%               | 2.1%                   | 3.8%                  | 61.4%                                     | 11.7%                    | 2.1%                   | 12.6%               | 2.4%                     | 0.5%         | 6.7%               | 0.9%                   | 1.6%                  |
| 0.3%               | 1.5%                   | 3.5%                  | 53.2%                                     | 14.8%                    | 9.5%                   | 13.5%               | 4.9%                     | 2.1%         | 0.1%               | 1.6%                   | 0.3%                  |
| 0.2%               | 4.3%                   | 2.5%                  | 16.9%                                     | 20.2%                    | 5.8%                   | 46.3%               | 7.5%                     | 1.2%         | 0.2%               | 1.2%                   | 0.6%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 2.1%               | 3.8%                   | 2.5%                  | 45.5%                                     | 35.4%                    | 0.8%                   | 8.8%                | 2.4%                     | 1.8%         | 2.4%               | 2.5%                   | 0.4%                  |
| 0.6%               | 17.4%                  | 2.1%                  | 35.7%                                     | 5.0%                     | 6.6%                   | 27.4%               | 3.1%                     | 0.1%         | 0.4%               | 20.3%                  | 1.4%                  |
| 0.2%               | 0.4%                   | 4.3%                  | 41.3%                                     | 13.8%                    | 7.1%                   | 28.0%               | 1.5%                     | 1.1%         | 0.1%               | 0.4%                   | 6.7%                  |
| 0.0%               | 9.4%                   | 5.4%                  | 3.0%                                      | 11.3%                    | 14.6%                  | 41.4%               | 9.7%                     | 5.7%         | 0.0%               | 8.5%                   | 5.9%                  |
| 0.0%               | 0.0%                   | 0.1%                  | 29.4%                                     | 8.6%                     | 0.0%                   | 53.1%               | 6.7%                     | 2.1%         | 0.0%               | 0.0%                   | 0.1%                  |
| 0.3%               | 0.5%                   | 0.2%                  | 25.3%                                     | 35.7%                    | 7.0%                   | 26.9%               | 3.6%                     | 0.1%         | 0.4%               | 0.8%                   | 0.2%                  |
| 3.1%               | 3.7%                   | 0.0%                  | 80.6%                                     | 4.5%                     | 0.0%                   | 3.5%                | 2.8%                     | 1.7%         | 5.4%               | 1.4%                   | 0.0%                  |
| 0.7%               | 1.7%                   | 2.8%                  | 31.8%                                     | 6.7%                     | 5.8%                   | 39.3%               | 3.8%                     | 6.1%         | 0.8%               | 1.4%                   | 4.3%                  |
| 4.6%               | 7.1%                   | 0.0%                  | 17.3%                                     | 11.5%                    | 2.4%                   | 44.4%               | 14.5%                    | 0.7%         | 5.3%               | 3.7%                   | 0.0%                  |
| 0.5%               | 1.9%                   | 4.0%                  | 73.1%                                     | 10.4%                    | 0.2%                   | 10.5%               | 0.3%                     | 0.4%         | 0.5%               | 1.1%                   | 3.5%                  |
| 1.0%               | 1.7%                   | 3.6%                  | 61.6%                                     | 7.2%                     | 1.4%                   | 19.3%               | 2.2%                     | 1.3%         | 1.5%               | 1.7%                   | 3.8%                  |
| 2.3%               | 1.6%                   | 6.1%                  | 45.5%                                     | 5.6%                     | 2.3%                   | 29.9%               | 1.3%                     | 3.7%         | 2.4%               | 1.0%                   | 8.3%                  |
| 0.1%               | 0.0%                   | 0.0%                  | 96.7%                                     | 0.0%                     | 0.0%                   | 3.3%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |

| Research by Major Discipline                                            |                                             | 2018 Total Research by Major Discipline |                          |                        |                     |                          |              |
|-------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------|--------------------------|------------------------|---------------------|--------------------------|--------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                             | Percent Life Science                    | Percent Physical Science | Percent Enviro Science | Percent Eng Science | Percent Computer Science | Percent Math |
| Public                                                                  | Oregon State University                     | 50.8%                                   | 1.8%                     | 18.2%                  | 18.5%               | 3.6%                     | 0.8%         |
| Public                                                                  | Penn. State University - Hershey Med. Ctr.  | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | Pennsylvania State University - Univ. Park  | 22.8%                                   | 12.0%                    | 6.4%                   | 41.5%               | 7.1%                     | 2.5%         |
| Private                                                                 | Princeton University                        | 23.5%                                   | 23.5%                    | 8.0%                   | 19.6%               | 4.4%                     | 3.4%         |
| Public                                                                  | Purdue University - West Lafayette          | 39.4%                                   | 7.0%                     | 1.1%                   | 42.9%               | 4.4%                     | 1.2%         |
| Private                                                                 | Rensselaer Polytechnic Institute            | 5.8%                                    | 15.6%                    | 2.8%                   | 60.7%               | 10.4%                    | 1.7%         |
| Private                                                                 | Rice University                             | 9.0%                                    | 18.7%                    | 2.5%                   | 43.2%               | 7.2%                     | 6.0%         |
| Private                                                                 | Rockefeller University                      | 94.6%                                   | 2.4%                     | 0.3%                   | 0.0%                | 2.3%                     | 0.4%         |
| Private                                                                 | Rush University                             | 96.8%                                   | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | Rutgers University - New Brunswick          | 71.8%                                   | 3.9%                     | 2.9%                   | 15.7%               | 1.3%                     | 2.2%         |
| Private                                                                 | Scripps Research Institute                  | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Private                                                                 | Stanford University                         | 70.5%                                   | 8.0%                     | 1.6%                   | 13.2%               | 2.3%                     | 0.5%         |
| Public                                                                  | State Univ. of New York - Polytechnic Inst. | 0.9%                                    | 0.0%                     | 0.0%                   | 99.1%               | 0.0%                     | 0.0%         |
| Public                                                                  | Stony Brook University                      | 44.3%                                   | 16.6%                    | 10.6%                  | 11.6%               | 3.9%                     | 3.1%         |
| Public                                                                  | Temple University                           | 81.3%                                   | 6.0%                     | 0.7%                   | 3.0%                | 1.7%                     | 0.7%         |
| Public                                                                  | Texas A&M University - College Station      | 38.9%                                   | 6.2%                     | 13.1%                  | 34.1%               | 2.5%                     | 1.0%         |
| Private                                                                 | Thomas Jefferson University                 | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Private                                                                 | Tufts University                            | 36.2%                                   | 34.9%                    | 0.6%                   | 13.7%               | 1.7%                     | 0.9%         |
| Private                                                                 | Tulane University                           | 84.4%                                   | 3.2%                     | 2.1%                   | 4.1%                | 1.4%                     | 1.0%         |
| Public                                                                  | Uniformed Services University of the HS     | 96.8%                                   | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | University at Albany                        | 61.5%                                   | 5.2%                     | 11.7%                  | 1.3%                | 3.5%                     | 0.7%         |
| Public                                                                  | University at Buffalo                       | 62.1%                                   | 3.4%                     | 1.1%                   | 24.2%               | 4.3%                     | 0.2%         |
| Public                                                                  | University of Alabama - Birmingham          | 88.9%                                   | 1.3%                     | 0.2%                   | 8.4%                | 0.2%                     | 0.1%         |
| Public                                                                  | University of Alabama - Huntsville          | 2.7%                                    | 15.3%                    | 13.3%                  | 36.1%               | 28.5%                    | 0.5%         |
| Public                                                                  | University of Alaska - Fairbanks            | 21.8%                                   | 9.4%                     | 47.4%                  | 10.1%               | 0.9%                     | 0.3%         |
| Public                                                                  | University of Arizona                       | 59.5%                                   | 19.0%                    | 4.3%                   | 10.4%               | 1.9%                     | 0.3%         |
| Public                                                                  | University of Arkansas - Fayetteville       | 60.7%                                   | 6.6%                     | 2.9%                   | 24.7%               | 0.6%                     | 0.3%         |
| Public                                                                  | University of Arkansas for Medical Sciences | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | University of California - Berkeley         | 31.3%                                   | 17.5%                    | 1.5%                   | 26.8%               | 1.4%                     | 1.1%         |
| Public                                                                  | University of California - Davis            | 75.9%                                   | 3.0%                     | 3.5%                   | 11.5%               | 1.0%                     | 0.6%         |
| Public                                                                  | University of California - Irvine           | 59.9%                                   | 9.5%                     | 2.7%                   | 17.6%               | 3.9%                     | 1.3%         |
| Public                                                                  | University of California - Los Angeles      | 73.9%                                   | 4.5%                     | 3.1%                   | 7.4%                | 1.2%                     | 1.1%         |
| Public                                                                  | University of California - Riverside        | 52.5%                                   | 10.2%                    | 6.1%                   | 18.0%               | 4.6%                     | 1.0%         |
| Public                                                                  | University of California - San Diego        | 62.3%                                   | 5.4%                     | 12.7%                  | 12.0%               | 2.8%                     | 0.4%         |
| Public                                                                  | University of California - San Francisco    | 96.1%                                   | 3.9%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | University of California - Santa Barbara    | 16.9%                                   | 22.0%                    | 15.1%                  | 34.7%               | 5.1%                     | 0.6%         |
| Public                                                                  | University of California - Santa Cruz       | 20.3%                                   | 24.0%                    | 19.8%                  | 24.1%               | 3.4%                     | 0.3%         |
| Public                                                                  | University of Central Florida               | 15.2%                                   | 15.8%                    | 2.9%                   | 35.6%               | 15.1%                    | 1.7%         |
| Private                                                                 | University of Chicago                       | 66.4%                                   | 12.4%                    | 2.3%                   | 4.0%                | 6.2%                     | 1.8%         |
| Public                                                                  | University of Cincinnati - Cincinnati       | 84.0%                                   | 2.0%                     | 0.3%                   | 9.6%                | 0.5%                     | 0.5%         |
| Public                                                                  | University of Colorado - Boulder            | 8.5%                                    | 17.4%                    | 27.9%                  | 35.2%               | 2.5%                     | 0.5%         |
| Public                                                                  | Univ. of Colorado - Denver/Anschutz Med.    | 97.8%                                   | 0.2%                     | 0.6%                   | 0.9%                | 0.1%                     | 0.1%         |
| Public                                                                  | University of Connecticut - Health Center   | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | University of Connecticut - Storrs          | 38.3%                                   | 10.3%                    | 6.3%                   | 24.4%               | 2.9%                     | 1.4%         |
| Private                                                                 | University of Dayton                        | 0.7%                                    | 1.1%                     | 0.2%                   | 96.8%               | 1.0%                     | 0.0%         |
| Public                                                                  | University of Delaware                      | 30.9%                                   | 13.2%                    | 11.5%                  | 29.5%               | 2.9%                     | 1.1%         |
| Public                                                                  | University of Florida                       | 78.9%                                   | 3.1%                     | 2.0%                   | 11.3%               | 1.5%                     | 0.2%         |
| Public                                                                  | University of Georgia                       | 67.1%                                   | 4.9%                     | 5.8%                   | 5.5%                | 1.3%                     | 1.7%         |
| Public                                                                  | University of Hawaii - Manoa                | 47.5%                                   | 8.7%                     | 28.6%                  | 7.8%                | 4.0%                     | 0.1%         |

|                    |                        |                       | 2018 Federal Research by Major Discipline |                          |                        |                     |                          |              |                    |                        |                       |
|--------------------|------------------------|-----------------------|-------------------------------------------|--------------------------|------------------------|---------------------|--------------------------|--------------|--------------------|------------------------|-----------------------|
| Percent Psychology | Percent Social Science | Percent Other Science | Percent Life Science                      | Percent Physical Science | Percent Enviro Science | Percent Eng Science | Percent Computer Science | Percent Math | Percent Psychology | Percent Social Science | Percent Other Science |
| 0.5%               | 2.2%                   | 3.6%                  | 39.0%                                     | 2.2%                     | 24.9%                  | 20.7%               | 4.8%                     | 0.9%         | 0.7%               | 1.7%                   | 5.2%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 3.9%               | 3.9%                   | 0.0%                  | 15.2%                                     | 10.6%                    | 6.2%                   | 48.8%               | 9.6%                     | 3.1%         | 4.0%               | 2.6%                   | 0.0%                  |
| 1.8%               | 15.9%                  | 0.0%                  | 26.4%                                     | 29.9%                    | 9.9%                   | 23.5%               | 4.9%                     | 2.6%         | 1.3%               | 1.6%                   | 0.0%                  |
| 1.2%               | 2.3%                   | 0.5%                  | 32.6%                                     | 8.4%                     | 1.4%                   | 45.9%               | 6.3%                     | 1.9%         | 1.8%               | 1.8%                   | 0.0%                  |
| 2.6%               | 0.5%                   | 0.0%                  | 6.3%                                      | 12.4%                    | 2.5%                   | 60.7%               | 10.9%                    | 2.4%         | 4.4%               | 0.4%                   | 0.0%                  |
| 2.0%               | 10.9%                  | 0.5%                  | 10.1%                                     | 20.2%                    | 2.6%                   | 44.5%               | 12.5%                    | 5.6%         | 2.9%               | 1.1%                   | 0.5%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 95.0%                                     | 4.4%                     | 0.4%                   | 0.0%                | 0.0%                     | 0.2%         | 0.0%               | 0.0%                   | 0.0%                  |
| 3.2%               | 0.0%                   | 0.0%                  | 95.7%                                     | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 4.3%               | 0.0%                   | 0.0%                  |
| 1.0%               | 1.1%                   | 0.2%                  | 72.2%                                     | 5.6%                     | 4.3%                   | 10.7%               | 2.4%                     | 3.3%         | 1.1%               | 0.3%                   | 0.1%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 1.6%               | 2.2%                   | 0.0%                  | 71.2%                                     | 9.2%                     | 1.3%                   | 13.4%               | 2.0%                     | 0.7%         | 1.5%               | 0.8%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 4.4%                                      | 0.0%                     | 0.0%                   | 95.6%               | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 1.7%               | 0.9%                   | 7.2%                  | 46.2%                                     | 20.9%                    | 8.3%                   | 11.1%               | 5.1%                     | 3.7%         | 2.2%               | 0.7%                   | 1.8%                  |
| 4.9%               | 1.2%                   | 0.5%                  | 78.4%                                     | 7.8%                     | 0.5%                   | 2.9%                | 2.0%                     | 0.6%         | 6.3%               | 1.2%                   | 0.3%                  |
| 0.4%               | 3.3%                   | 0.5%                  | 35.6%                                     | 6.0%                     | 27.9%                  | 22.1%               | 3.1%                     | 1.8%         | 0.4%               | 3.0%                   | 0.1%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 0.9%               | 7.8%                   | 3.2%                  | 37.6%                                     | 33.9%                    | 0.5%                   | 17.5%               | 2.6%                     | 1.2%         | 1.1%               | 1.8%                   | 3.8%                  |
| 1.1%               | 2.7%                   | 0.0%                  | 87.4%                                     | 3.4%                     | 1.5%                   | 3.9%                | 1.5%                     | 0.7%         | 0.8%               | 0.8%                   | 0.0%                  |
| 3.2%               | 0.0%                   | 0.0%                  | 96.8%                                     | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 3.2%               | 0.0%                   | 0.0%                  |
| 2.1%               | 14.1%                  | 0.0%                  | 78.0%                                     | 3.5%                     | 10.6%                  | 0.1%                | 1.4%                     | 0.1%         | 0.6%               | 5.7%                   | 0.0%                  |
| 1.2%               | 2.5%                   | 0.9%                  | 55.8%                                     | 4.8%                     | 1.6%                   | 29.1%               | 5.2%                     | 0.3%         | 1.9%               | 1.3%                   | 0.0%                  |
| 0.9%               | 0.1%                   | 0.0%                  | 86.2%                                     | 1.6%                     | 0.2%                   | 10.3%               | 0.2%                     | 0.1%         | 1.3%               | 0.0%                   | 0.0%                  |
| 0.2%               | 3.4%                   | 0.0%                  | 0.8%                                      | 14.2%                    | 13.5%                  | 33.6%               | 34.3%                    | 0.1%         | 0.0%               | 3.6%                   | 0.0%                  |
| 0.5%               | 0.8%                   | 8.9%                  | 15.5%                                     | 9.5%                     | 54.5%                  | 8.2%                | 0.3%                     | 0.5%         | 0.7%               | 1.0%                   | 9.7%                  |
| 0.4%               | 3.0%                   | 1.1%                  | 54.8%                                     | 23.7%                    | 4.6%                   | 10.7%               | 2.1%                     | 0.6%         | 0.5%               | 1.7%                   | 1.4%                  |
| 0.8%               | 3.3%                   | 0.0%                  | 48.1%                                     | 8.3%                     | 5.1%                   | 32.9%               | 0.9%                     | 0.6%         | 1.1%               | 3.0%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 2.4%               | 7.8%                   | 10.1%                 | 34.7%                                     | 25.1%                    | 2.1%                   | 23.2%               | 0.1%                     | 1.8%         | 2.4%               | 1.8%                   | 8.9%                  |
| 0.3%               | 3.1%                   | 1.0%                  | 78.3%                                     | 4.2%                     | 1.9%                   | 10.0%               | 1.6%                     | 0.9%         | 0.4%               | 2.7%                   | 0.0%                  |
| 1.7%               | 3.1%                   | 0.1%                  | 60.4%                                     | 12.6%                    | 4.6%                   | 14.0%               | 4.3%                     | 1.6%         | 1.2%               | 1.2%                   | 0.0%                  |
| 1.4%               | 5.6%                   | 2.0%                  | 70.3%                                     | 6.6%                     | 4.7%                   | 9.0%                | 1.3%                     | 2.0%         | 2.2%               | 2.0%                   | 1.9%                  |
| 2.9%               | 2.0%                   | 2.7%                  | 38.0%                                     | 17.8%                    | 6.0%                   | 21.4%               | 7.1%                     | 1.4%         | 4.4%               | 0.6%                   | 3.3%                  |
| 1.6%               | 1.6%                   | 1.3%                  | 62.0%                                     | 6.8%                     | 13.9%                  | 11.5%               | 2.3%                     | 0.4%         | 2.2%               | 0.7%                   | 0.1%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 94.7%                                     | 5.3%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 2.5%               | 2.6%                   | 0.6%                  | 15.2%                                     | 29.1%                    | 12.3%                  | 32.7%               | 6.1%                     | 0.8%         | 3.1%               | 0.6%                   | 0.2%                  |
| 0.7%               | 5.6%                   | 1.8%                  | 24.8%                                     | 20.0%                    | 18.5%                  | 30.3%               | 3.0%                     | 0.4%         | 0.7%               | 2.2%                   | 0.2%                  |
| 2.8%               | 9.6%                   | 1.4%                  | 12.3%                                     | 20.7%                    | 1.8%                   | 36.9%               | 20.2%                    | 0.5%         | 1.5%               | 6.3%                   | 0.0%                  |
| 2.0%               | 4.9%                   | 0.0%                  | 63.4%                                     | 14.3%                    | 2.9%                   | 4.3%                | 7.9%                     | 2.0%         | 2.2%               | 2.9%                   | 0.0%                  |
| 0.5%               | 2.4%                   | 0.2%                  | 91.3%                                     | 2.0%                     | 0.2%                   | 4.3%                | 0.0%                     | 0.5%         | 0.7%               | 1.0%                   | 0.0%                  |
| 1.8%               | 3.6%                   | 2.6%                  | 8.9%                                      | 20.8%                    | 35.2%                  | 23.0%               | 3.0%                     | 0.6%         | 2.2%               | 3.2%                   | 3.0%                  |
| 0.3%               | 0.1%                   | 0.0%                  | 97.5%                                     | 0.2%                     | 0.9%                   | 0.7%                | 0.1%                     | 0.1%         | 0.4%               | 0.1%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 10.8%              | 5.2%                   | 0.3%                  | 38.2%                                     | 7.9%                     | 6.6%                   | 25.9%               | 3.9%                     | 1.6%         | 11.2%              | 4.6%                   | 0.1%                  |
| 0.0%               | 0.1%                   | 0.1%                  | 0.6%                                      | 1.0%                     | 0.2%                   | 97.4%               | 0.9%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 2.5%               | 7.6%                   | 0.9%                  | 23.4%                                     | 17.1%                    | 10.9%                  | 33.2%               | 3.8%                     | 1.4%         | 3.1%               | 6.4%                   | 0.7%                  |
| 1.2%               | 1.8%                   | 0.0%                  | 72.7%                                     | 4.1%                     | 3.0%                   | 14.5%               | 2.1%                     | 0.3%         | 1.9%               | 1.3%                   | 0.0%                  |
| 5.1%               | 5.9%                   | 2.7%                  | 74.9%                                     | 3.0%                     | 4.2%                   | 3.4%                | 0.9%                     | 1.3%         | 7.5%               | 4.7%                   | 0.1%                  |
| 0.1%               | 1.6%                   | 1.6%                  | 39.6%                                     | 9.1%                     | 33.1%                  | 9.5%                | 6.3%                     | 0.2%         | 0.2%               | 0.7%                   | 1.4%                  |

| Research by Major Discipline                                            |                                            | 2018 Total Research by Major Discipline |                          |                        |                     |                          |              |
|-------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------|--------------------------|------------------------|---------------------|--------------------------|--------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                            | Percent Life Science                    | Percent Physical Science | Percent Enviro Science | Percent Eng Science | Percent Computer Science | Percent Math |
| Public                                                                  | University of Houston - University Park    | 21.1%                                   | 20.5%                    | 5.0%                   | 31.6%               | 4.5%                     | 2.1%         |
| Public                                                                  | University of Idaho                        | 65.1%                                   | 1.8%                     | 5.0%                   | 16.3%               | 1.4%                     | 0.6%         |
| Public                                                                  | University of Illinois - Chicago           | 78.4%                                   | 3.7%                     | 0.2%                   | 7.3%                | 3.4%                     | 1.2%         |
| Public                                                                  | University of Illinois - Urbana-Champaign  | 33.8%                                   | 11.4%                    | 1.2%                   | 32.0%               | 15.8%                    | 0.9%         |
| Public                                                                  | University of Iowa                         | 79.9%                                   | 5.2%                     | 0.4%                   | 10.5%               | 0.6%                     | 0.2%         |
| Public                                                                  | University of Kansas - Lawrence            | 62.0%                                   | 5.0%                     | 6.4%                   | 9.9%                | 2.3%                     | 0.7%         |
| Public                                                                  | University of Kansas Medical Center        | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | University of Kentucky                     | 77.0%                                   | 1.8%                     | 0.6%                   | 12.5%               | 0.8%                     | 0.2%         |
| Public                                                                  | University of Louisville                   | 85.9%                                   | 1.1%                     | 0.1%                   | 10.3%               | 0.2%                     | 0.1%         |
| Public                                                                  | University of Maine - Orono                | 34.8%                                   | 5.2%                     | 21.5%                  | 26.0%               | 1.3%                     | 0.1%         |
| Public                                                                  | University of Maryland - Baltimore         | 98.0%                                   | 0.0%                     | 0.5%                   | 1.5%                | 0.0%                     | 0.0%         |
| Public                                                                  | University of Maryland - Baltimore County  | 6.9%                                    | 19.6%                    | 28.8%                  | 12.4%               | 9.0%                     | 2.1%         |
| Public                                                                  | University of Maryland - College Park      | 21.7%                                   | 19.8%                    | 9.0%                   | 24.8%               | 8.7%                     | 1.3%         |
| Public                                                                  | University of Massachusetts - Amherst      | 34.1%                                   | 12.6%                    | 2.7%                   | 28.0%               | 13.0%                    | 1.3%         |
| Public                                                                  | University of Mass. Med. Sch. - Worcester  | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Private                                                                 | University of Miami                        | 77.4%                                   | 1.7%                     | 14.2%                  | 1.5%                | 0.3%                     | 0.3%         |
| Public                                                                  | University of Michigan - Ann Arbor         | 58.5%                                   | 4.0%                     | 1.0%                   | 20.0%               | 0.8%                     | 1.2%         |
| Public                                                                  | University of Minnesota - Twin Cities      | 69.4%                                   | 4.3%                     | 1.6%                   | 13.6%               | 2.4%                     | 0.9%         |
| Public                                                                  | University of Missouri - Columbia          | 74.1%                                   | 3.0%                     | 0.4%                   | 17.3%               | 0.7%                     | 0.7%         |
| Public                                                                  | University of Montana - Missoula           | 63.2%                                   | 7.6%                     | 5.8%                   | 0.0%                | 0.9%                     | 0.5%         |
| Public                                                                  | University of Nebraska - Lincoln           | 56.7%                                   | 10.2%                    | 1.5%                   | 18.0%               | 3.4%                     | 2.0%         |
| Public                                                                  | University of Nebraska Medical Center      | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | University of Nevada - Reno                | 48.6%                                   | 8.7%                     | 11.3%                  | 15.2%               | 6.1%                     | 1.1%         |
| Public                                                                  | University of New Hampshire - Durham       | 36.8%                                   | 3.4%                     | 39.5%                  | 14.4%               | 0.3%                     | 0.2%         |
| Public                                                                  | University of New Mexico - Albuquerque     | 65.7%                                   | 3.7%                     | 3.2%                   | 14.3%               | 1.8%                     | 0.5%         |
| Public                                                                  | University of North Carolina - Chapel Hill | 75.5%                                   | 3.2%                     | 1.7%                   | 2.6%                | 1.7%                     | 0.3%         |
| Public                                                                  | University of North Dakota                 | 30.6%                                   | 3.1%                     | 4.1%                   | 52.9%               | 2.2%                     | 0.4%         |
| Private                                                                 | University of Notre Dame                   | 14.3%                                   | 22.3%                    | 0.0%                   | 40.6%               | 7.5%                     | 2.6%         |
| Public                                                                  | Univ. of Oklahoma - Health Sciences Ctr.   | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | University of Oklahoma - Norman            | 14.7%                                   | 10.4%                    | 44.1%                  | 16.2%               | 2.0%                     | 0.3%         |
| Public                                                                  | University of Oregon                       | 43.6%                                   | 16.7%                    | 4.6%                   | 0.0%                | 5.1%                     | 1.3%         |
| Private                                                                 | University of Pennsylvania                 | 82.1%                                   | 4.3%                     | 0.1%                   | 5.2%                | 1.8%                     | 0.5%         |
| Public                                                                  | University of Pittsburgh - Pittsburgh      | 86.7%                                   | 3.1%                     | 1.2%                   | 4.5%                | 0.8%                     | 0.4%         |
| Public                                                                  | University of Rhode Island                 | 24.5%                                   | 3.8%                     | 47.8%                  | 8.0%                | 0.8%                     | 0.0%         |
| Private                                                                 | University of Rochester                    | 66.2%                                   | 25.2%                    | 0.7%                   | 3.6%                | 1.0%                     | 0.1%         |
| Public                                                                  | University of South Carolina - Columbia    | 53.7%                                   | 7.8%                     | 2.5%                   | 16.7%               | 1.8%                     | 2.2%         |
| Public                                                                  | University of South Florida - Tampa        | 71.4%                                   | 2.4%                     | 4.8%                   | 9.2%                | 1.7%                     | 0.4%         |
| Private                                                                 | University of Southern California          | 67.7%                                   | 2.1%                     | 1.9%                   | 8.5%                | 14.0%                    | 0.1%         |
| Public                                                                  | University of Tennessee - Knoxville        | 27.3%                                   | 8.0%                     | 1.9%                   | 44.2%               | 4.7%                     | 1.1%         |
| Public                                                                  | University of Texas - Austin               | 19.3%                                   | 12.6%                    | 9.0%                   | 39.3%               | 11.9%                    | 2.4%         |
| Public                                                                  | University of Texas - El Paso              | 34.0%                                   | 9.7%                     | 3.2%                   | 33.7%               | 6.8%                     | 0.8%         |
| Public                                                                  | University of Texas HSC - Houston          | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | University of Texas HSC - San Antonio      | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | Univ. of Texas MD Anderson Cancer Ctr.     | 93.3%                                   | 1.7%                     | 0.0%                   | 0.0%                | 0.0%                     | 2.4%         |
| Public                                                                  | Univ. of Texas Medical Branch - Galveston  | 98.6%                                   | 0.0%                     | 0.0%                   | 1.4%                | 0.0%                     | 0.0%         |
| Public                                                                  | Univ. of Texas SW Medical Center - Dallas  | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | University of Utah                         | 73.3%                                   | 4.7%                     | 2.4%                   | 7.9%                | 7.9%                     | 0.8%         |
| Public                                                                  | University of Vermont                      | 83.9%                                   | 1.8%                     | 0.3%                   | 6.0%                | 1.3%                     | 0.3%         |
| Public                                                                  | University of Virginia                     | 71.7%                                   | 5.1%                     | 1.0%                   | 14.3%               | 3.2%                     | 0.3%         |

|                    |                        |                       | 2018 Federal Research by Major Discipline |                          |                        |                     |                          |              |                    |                        |                       |
|--------------------|------------------------|-----------------------|-------------------------------------------|--------------------------|------------------------|---------------------|--------------------------|--------------|--------------------|------------------------|-----------------------|
| Percent Psychology | Percent Social Science | Percent Other Science | Percent Life Science                      | Percent Physical Science | Percent Enviro Science | Percent Eng Science | Percent Computer Science | Percent Math | Percent Psychology | Percent Social Science | Percent Other Science |
| 9.4%               | 5.0%                   | 0.7%                  | 24.1%                                     | 9.6%                     | 4.2%                   | 34.8%               | 7.0%                     | 3.0%         | 15.5%              | 1.6%                   | 0.2%                  |
| 0.1%               | 1.8%                   | 8.0%                  | 56.9%                                     | 2.4%                     | 5.5%                   | 15.8%               | 2.4%                     | 1.0%         | 0.2%               | 2.3%                   | 13.4%                 |
| 1.6%               | 2.0%                   | 2.2%                  | 80.3%                                     | 4.3%                     | 0.2%                   | 7.2%                | 3.6%                     | 1.1%         | 1.9%               | 0.8%                   | 0.5%                  |
| 2.4%               | 1.5%                   | 0.9%                  | 23.9%                                     | 14.0%                    | 1.8%                   | 37.3%               | 18.7%                    | 1.1%         | 2.3%               | 0.8%                   | 0.1%                  |
| 1.5%               | 1.4%                   | 0.3%                  | 76.6%                                     | 9.2%                     | 0.3%                   | 9.2%                | 1.0%                     | 0.2%         | 2.4%               | 1.0%                   | 0.0%                  |
| 8.9%               | 4.5%                   | 0.4%                  | 58.9%                                     | 7.9%                     | 5.7%                   | 11.9%               | 2.2%                     | 1.3%         | 6.3%               | 5.3%                   | 0.5%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 1.1%               | 0.4%                   | 5.5%                  | 73.8%                                     | 2.9%                     | 0.4%                   | 14.8%               | 1.0%                     | 0.3%         | 1.9%               | 0.4%                   | 4.5%                  |
| 0.9%               | 0.8%                   | 0.8%                  | 87.2%                                     | 1.3%                     | 0.2%                   | 9.0%                | 0.2%                     | 0.1%         | 0.9%               | 1.1%                   | 0.0%                  |
| 0.1%               | 1.6%                   | 9.5%                  | 38.3%                                     | 4.4%                     | 23.2%                  | 22.2%               | 1.4%                     | 0.0%         | 0.1%               | 0.8%                   | 9.6%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 98.5%                                     | 0.0%                     | 0.2%                   | 1.2%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 2.9%               | 15.0%                  | 3.3%                  | 6.6%                                      | 22.6%                    | 27.6%                  | 11.7%               | 9.3%                     | 2.1%         | 1.9%               | 14.5%                  | 3.6%                  |
| 1.6%               | 12.7%                  | 0.5%                  | 20.9%                                     | 22.7%                    | 12.0%                  | 20.3%               | 9.1%                     | 1.3%         | 2.1%               | 10.9%                  | 0.7%                  |
| 3.8%               | 2.7%                   | 1.8%                  | 33.5%                                     | 14.2%                    | 2.8%                   | 26.6%               | 15.1%                    | 1.5%         | 3.9%               | 1.1%                   | 1.3%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 4.1%               | 0.6%                   | 0.0%                  | 72.5%                                     | 2.4%                     | 18.9%                  | 1.4%                | 0.4%                     | 0.2%         | 4.1%               | 0.1%                   | 0.0%                  |
| 1.3%               | 12.9%                  | 0.3%                  | 59.6%                                     | 4.3%                     | 0.9%                   | 21.2%               | 0.6%                     | 0.7%         | 0.8%               | 11.9%                  | 0.1%                  |
| 4.1%               | 3.8%                   | 0.0%                  | 63.8%                                     | 6.5%                     | 1.7%                   | 14.9%               | 1.8%                     | 1.2%         | 6.2%               | 3.9%                   | 0.0%                  |
| 2.8%               | 1.0%                   | 0.0%                  | 74.8%                                     | 5.8%                     | 0.8%                   | 10.2%               | 1.3%                     | 1.3%         | 5.5%               | 0.3%                   | 0.0%                  |
| 0.8%               | 21.1%                  | 0.0%                  | 75.1%                                     | 10.6%                    | 4.6%                   | 0.0%                | 1.3%                     | 0.8%         | 1.0%               | 6.6%                   | 0.0%                  |
| 3.6%               | 4.2%                   | 0.5%                  | 46.0%                                     | 17.1%                    | 2.3%                   | 18.0%               | 4.8%                     | 1.7%         | 4.9%               | 5.4%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 3.9%               | 4.3%                   | 0.7%                  | 51.5%                                     | 8.7%                     | 11.6%                  | 12.5%               | 6.6%                     | 0.4%         | 5.4%               | 2.7%                   | 0.6%                  |
| 1.2%               | 4.2%                   | 0.0%                  | 37.0%                                     | 3.3%                     | 44.1%                  | 10.6%               | 0.2%                     | 0.2%         | 1.6%               | 3.2%                   | 0.0%                  |
| 3.6%               | 4.0%                   | 3.4%                  | 64.5%                                     | 4.7%                     | 4.2%                   | 16.4%               | 1.8%                     | 0.6%         | 3.9%               | 2.5%                   | 1.4%                  |
| 4.4%               | 10.5%                  | 0.0%                  | 71.8%                                     | 3.4%                     | 1.7%                   | 2.9%                | 2.0%                     | 0.4%         | 4.3%               | 13.4%                  | 0.0%                  |
| 1.6%               | 1.4%                   | 3.6%                  | 29.5%                                     | 1.3%                     | 4.0%                   | 62.4%               | 1.2%                     | 0.0%         | 0.8%               | 0.0%                   | 0.8%                  |
| 2.6%               | 5.0%                   | 5.2%                  | 12.0%                                     | 29.3%                    | 0.0%                   | 39.1%               | 9.7%                     | 3.2%         | 3.0%               | 2.5%                   | 1.2%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 0.9%               | 11.4%                  | 0.0%                  | 11.3%                                     | 12.4%                    | 50.0%                  | 13.7%               | 1.9%                     | 0.3%         | 1.1%               | 9.2%                   | 0.0%                  |
| 17.0%              | 8.0%                   | 3.8%                  | 47.0%                                     | 15.0%                    | 5.8%                   | 0.0%                | 6.2%                     | 1.6%         | 21.3%              | 3.1%                   | 0.0%                  |
| 1.4%               | 3.8%                   | 0.8%                  | 82.7%                                     | 5.4%                     | 0.1%                   | 5.5%                | 2.2%                     | 0.3%         | 1.5%               | 2.2%                   | 0.0%                  |
| 1.6%               | 0.5%                   | 1.2%                  | 86.9%                                     | 2.7%                     | 1.3%                   | 4.3%                | 0.9%                     | 0.4%         | 2.1%               | 0.5%                   | 0.9%                  |
| 2.1%               | 3.3%                   | 9.7%                  | 29.0%                                     | 4.1%                     | 46.3%                  | 8.6%                | 1.2%                     | 0.0%         | 1.5%               | 2.0%                   | 7.2%                  |
| 1.8%               | 0.0%                   | 1.3%                  | 60.3%                                     | 31.0%                    | 0.7%                   | 3.4%                | 1.0%                     | 0.1%         | 2.0%               | 0.1%                   | 1.3%                  |
| 4.6%               | 10.7%                  | 0.0%                  | 55.9%                                     | 9.5%                     | 1.5%                   | 18.4%               | 1.8%                     | 1.4%         | 7.5%               | 4.0%                   | 0.0%                  |
| 2.4%               | 7.3%                   | 0.3%                  | 69.7%                                     | 2.7%                     | 4.4%                   | 10.3%               | 1.4%                     | 0.3%         | 3.2%               | 7.8%                   | 0.2%                  |
| 1.0%               | 4.6%                   | 0.0%                  | 57.4%                                     | 2.5%                     | 2.2%                   | 9.6%                | 22.6%                    | 0.2%         | 1.3%               | 4.2%                   | 0.0%                  |
| 1.4%               | 4.1%                   | 7.3%                  | 21.7%                                     | 10.5%                    | 1.8%                   | 45.6%               | 6.9%                     | 0.7%         | 0.7%               | 2.2%                   | 9.7%                  |
| 1.9%               | 3.0%                   | 0.7%                  | 18.6%                                     | 12.5%                    | 6.0%                   | 40.0%               | 16.4%                    | 1.7%         | 2.4%               | 2.3%                   | 0.1%                  |
| 4.9%               | 4.8%                   | 2.0%                  | 27.9%                                     | 11.0%                    | 3.8%                   | 35.2%               | 11.4%                    | 0.5%         | 2.9%               | 5.6%                   | 1.7%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 1.7%               | 0.9%                   | 0.0%                  | 88.7%                                     | 3.8%                     | 0.0%                   | 0.0%                | 0.0%                     | 3.9%         | 2.5%               | 1.0%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 99.0%                                     | 0.0%                     | 0.0%                   | 1.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 1.1%               | 2.0%                   | 0.0%                  | 70.5%                                     | 5.2%                     | 2.4%                   | 8.5%                | 9.7%                     | 1.0%         | 1.2%               | 1.5%                   | 0.0%                  |
| 1.0%               | 0.9%                   | 4.6%                  | 81.3%                                     | 1.9%                     | 0.5%                   | 6.5%                | 1.2%                     | 0.1%         | 1.3%               | 1.1%                   | 6.0%                  |
| 1.8%               | 2.3%                   | 0.3%                  | 67.0%                                     | 7.6%                     | 1.2%                   | 16.7%               | 3.9%                     | 0.4%         | 1.9%               | 0.7%                   | 0.5%                  |

| Research by Major Discipline                                            |                                            | 2018 Total Research by Major Discipline |                          |                        |                     |                          |              |
|-------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------|--------------------------|------------------------|---------------------|--------------------------|--------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                            | Percent Life Science                    | Percent Physical Science | Percent Enviro Science | Percent Eng Science | Percent Computer Science | Percent Math |
| Public                                                                  | University of Washington - Seattle         | 71.1%                                   | 4.0%                     | 9.1%                   | 11.2%               | 1.8%                     | 0.4%         |
| Public                                                                  | University of Wisconsin - Madison          | 66.5%                                   | 6.6%                     | 4.5%                   | 10.6%               | 2.0%                     | 0.5%         |
| Public                                                                  | University of Wyoming                      | 36.6%                                   | 4.1%                     | 8.4%                   | 32.5%               | 0.3%                     | 8.9%         |
| Public                                                                  | Utah State University                      | 27.5%                                   | 2.8%                     | 0.9%                   | 65.0%               | 0.9%                     | 0.4%         |
| Private                                                                 | Vanderbilt University                      | 79.8%                                   | 4.1%                     | 0.5%                   | 12.4%               | 0.0%                     | 0.2%         |
| Public                                                                  | Virginia Commonwealth University           | 81.4%                                   | 1.6%                     | 0.5%                   | 9.1%                | 0.6%                     | 0.5%         |
| Public                                                                  | Virginia Polytechnic Inst. and State Univ. | 38.1%                                   | 4.0%                     | 0.7%                   | 47.2%               | 5.3%                     | 1.1%         |
| Private                                                                 | Wake Forest University                     | 98.8%                                   | 0.9%                     | 0.0%                   | 0.0%                | 0.1%                     | 0.1%         |
| Public                                                                  | Washington State University - Pullman      | 59.9%                                   | 11.1%                    | 2.9%                   | 15.4%               | 3.4%                     | 0.6%         |
| Private                                                                 | Washington University in St. Louis         | 91.7%                                   | 2.8%                     | 0.6%                   | 3.0%                | 0.6%                     | 0.1%         |
| Public                                                                  | Wayne State University                     | 78.0%                                   | 7.8%                     | 0.1%                   | 7.5%                | 0.8%                     | 1.7%         |
| Private                                                                 | Weill Cornell Medical College              | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |
| Public                                                                  | West Virginia University                   | 58.9%                                   | 8.7%                     | 4.1%                   | 21.3%               | 0.8%                     | 2.9%         |
| Private                                                                 | Woods Hole Oceanographic Institution       | 0.0%                                    | 0.0%                     | 70.0%                  | 30.0%               | 0.0%                     | 0.0%         |
| Public                                                                  | Wright State University - Dayton           | 22.8%                                   | 4.0%                     | 0.8%                   | 63.7%               | 4.8%                     | 0.7%         |
| Private                                                                 | Yale University                            | 85.6%                                   | 6.6%                     | 0.8%                   | 3.7%                | 0.6%                     | 0.3%         |
| Private                                                                 | Yeshiva University                         | 100.0%                                  | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         |

|                    |                        |                       | 2018 Federal Research by Major Discipline |                          |                        |                     |                          |              |                    |                        |                       |
|--------------------|------------------------|-----------------------|-------------------------------------------|--------------------------|------------------------|---------------------|--------------------------|--------------|--------------------|------------------------|-----------------------|
| Percent Psychology | Percent Social Science | Percent Other Science | Percent Life Science                      | Percent Physical Science | Percent Enviro Science | Percent Eng Science | Percent Computer Science | Percent Math | Percent Psychology | Percent Social Science | Percent Other Science |
| 0.8%               | 1.6%                   | 0.0%                  | 70.4%                                     | 4.8%                     | 10.1%                  | 10.9%               | 1.3%                     | 0.5%         | 0.9%               | 1.1%                   | 0.0%                  |
| 0.9%               | 4.2%                   | 4.1%                  | 59.4%                                     | 9.3%                     | 6.6%                   | 11.5%               | 3.0%                     | 0.6%         | 1.1%               | 3.9%                   | 4.6%                  |
| 0.2%               | 9.1%                   | 0.0%                  | 56.1%                                     | 6.0%                     | 14.0%                  | 10.3%               | 0.7%                     | 6.3%         | 0.0%               | 6.6%                   | 0.0%                  |
| 1.6%               | 0.8%                   | 0.2%                  | 16.0%                                     | 2.0%                     | 1.0%                   | 78.8%               | 0.7%                     | 0.2%         | 0.7%               | 0.6%                   | 0.0%                  |
| 2.2%               | 0.7%                   | 0.0%                  | 83.7%                                     | 3.2%                     | 0.4%                   | 10.3%               | 0.0%                     | 0.2%         | 1.7%               | 0.4%                   | 0.0%                  |
| 5.2%               | 1.1%                   | 0.0%                  | 81.8%                                     | 1.9%                     | 0.7%                   | 6.0%                | 1.0%                     | 0.5%         | 7.8%               | 0.3%                   | 0.0%                  |
| 0.8%               | 2.6%                   | 0.1%                  | 32.2%                                     | 5.5%                     | 1.1%                   | 50.4%               | 5.5%                     | 1.2%         | 1.3%               | 2.6%                   | 0.2%                  |
| 0.1%               | 0.1%                   | 0.0%                  | 98.6%                                     | 1.1%                     | 0.0%                   | 0.0%                | 0.1%                     | 0.1%         | 0.1%               | 0.0%                   | 0.0%                  |
| 1.3%               | 5.0%                   | 0.5%                  | 59.9%                                     | 12.8%                    | 3.3%                   | 14.6%               | 3.2%                     | 0.8%         | 1.1%               | 3.7%                   | 0.6%                  |
| 0.7%               | 0.2%                   | 0.3%                  | 89.4%                                     | 3.3%                     | 1.0%                   | 4.1%                | 0.8%                     | 0.1%         | 0.9%               | 0.1%                   | 0.3%                  |
| 0.8%               | 1.1%                   | 2.3%                  | 81.8%                                     | 8.8%                     | 0.2%                   | 5.8%                | 1.1%                     | 1.4%         | 0.7%               | 0.2%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 1.3%               | 1.6%                   | 0.4%                  | 48.6%                                     | 12.5%                    | 5.4%                   | 25.7%               | 1.1%                     | 3.4%         | 2.1%               | 0.8%                   | 0.4%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 0.0%                                      | 0.0%                     | 67.9%                  | 32.1%               | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |
| 2.8%               | 0.0%                   | 0.4%                  | 21.9%                                     | 4.4%                     | 0.5%                   | 64.9%               | 4.0%                     | 0.8%         | 3.4%               | 0.0%                   | 0.0%                  |
| 1.2%               | 1.2%                   | 0.1%                  | 85.7%                                     | 6.5%                     | 0.6%                   | 4.3%                | 0.8%                     | 0.3%         | 1.3%               | 0.5%                   | 0.0%                  |
| 0.0%               | 0.0%                   | 0.0%                  | 100.0%                                    | 0.0%                     | 0.0%                   | 0.0%                | 0.0%                     | 0.0%         | 0.0%               | 0.0%                   | 0.0%                  |

| Endowment Assets                                                        |                                        |                                         |                          |                         |                                         |                          |                         |
|-------------------------------------------------------------------------|----------------------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                        | 2019<br>Endowment<br>Assets<br>x \$1000 | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>Endowment<br>Assets<br>x \$1000 | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                  | Arizona State University               | 922,103                                 | 121                      | 48                      | 720,565                                 | 147                      | 54                      |
| Public                                                                  | Auburn University                      | 792,983                                 | 136                      | 51                      | 767,361                                 | 136                      | 49                      |
| Public                                                                  | Augusta University                     | 243,556                                 | 303                      | 122                     | 239,446                                 | 301                      | 120                     |
| Private                                                                 | Baylor College of Medicine             | 1,301,005                               | 84                       | 51                      | 1,272,276                               | 83                       | 52                      |
| Private                                                                 | Boston University                      | 2,304,235                               | 45                       | 29                      | 2,161,596                               | 47                       | 31                      |
| Private                                                                 | Brown University                       | 3,976,694                               | 29                       | 21                      | 3,603,848                               | 30                       | 21                      |
| Private                                                                 | California Institute of Technology     | 2,975,376                               | 35                       | 22                      | 2,879,494                               | 35                       | 22                      |
| Private                                                                 | Carnegie Mellon University             | 2,542,650                               | 40                       | 24                      | 2,385,986                               | 41                       | 26                      |
| Private                                                                 | Case Western Reserve University        | 1,866,500                               | 57                       | 38                      | 1,842,899                               | 57                       | 38                      |
| Public                                                                  | Clemson University                     | 774,514                                 | 140                      | 52                      | 741,802                                 | 142                      | 52                      |
| Public                                                                  | Cleveland State University             | 94,020                                  | 588                      | 213                     | 83,970                                  | 625                      | 222                     |
| Private                                                                 | Cold Spring Harbor Laboratory          |                                         |                          |                         |                                         |                          |                         |
| Public                                                                  | Colorado State Univ. - Fort Collins    | 376,063                                 | 235                      | 93                      | 355,923                                 | 239                      | 94                      |
| Private                                                                 | Columbia University                    | 10,950,738                              | 12                       | 9                       | 10,869,245                              | 11                       | 8                       |
| Private                                                                 | Cornell University                     | 5,803,967                               | 21                       | 17                      | 5,632,397                               | 19                       | 15                      |
| Private                                                                 | Dartmouth College                      | 5,731,322                               | 23                       | 19                      | 5,494,204                               | 21                       | 17                      |
| Private                                                                 | Drexel University                      | 813,685                                 | 133                      | 84                      | 779,692                                 | 132                      | 85                      |
| Private                                                                 | Duke University                        | 8,609,004                               | 13                       | 10                      | 8,524,846                               | 13                       | 10                      |
| Private                                                                 | Emory University                       | 7,872,381                               | 16                       | 13                      | 7,292,165                               | 16                       | 13                      |
| Public                                                                  | Florida International University       | 216,382                                 | 337                      | 134                     | 209,237                                 | 335                      | 132                     |
| Public                                                                  | Florida State University               | 704,106                                 | 157                      | 58                      | 681,370                                 | 157                      | 57                      |
| Public                                                                  | George Mason University                | 113,199                                 | 517                      | 188                     | 91,758                                  | 584                      | 208                     |
| Private                                                                 | George Washington University           | 1,778,559                               | 61                       | 40                      | 1,798,810                               | 59                       | 39                      |
| Private                                                                 | Georgetown University                  | 1,822,484                               | 60                       | 39                      | 1,769,557                               | 60                       | 40                      |
| Public                                                                  | Georgia Institute of Technology        | 2,169,005                               | 49                       | 17                      | 2,089,440                               | 50                       | 17                      |
| Public                                                                  | Georgia State University               | 178,774                                 | 393                      | 151                     | 167,114                                 | 405                      | 153                     |
| Private                                                                 | Harvard University                     | 39,427,896                              | 1                        | 1                       | 38,298,087                              | 1                        | 1                       |
| Private                                                                 | Icahn School of Med. at Mount Sinai    | 714,803                                 | 152                      | 97                      | 748,174                                 | 140                      | 90                      |
| Public                                                                  | Indiana University - Bloomington       | 1,172,818                               | 92                       | 38                      | 1,154,032                               | 90                       | 36                      |
| Public                                                                  | Iowa State University                  | 1,101,709                               | 100                      | 40                      | 1,062,682                               | 98                       | 39                      |
| Private                                                                 | Johns Hopkins University               | 6,275,939                               | 19                       | 15                      | 4,190,520                               | 28                       | 20                      |
| Public                                                                  | Kansas State University                | 510,300                                 | 201                      | 83                      | 472,700                                 | 204                      | 84                      |
| Public                                                                  | Louisiana State Univ. - Baton Rouge    | 519,887                                 | 197                      | 79                      | 499,341                                 | 199                      | 80                      |
| Private                                                                 | Massachusetts Inst. of Technology      | 17,569,328                              | 5                        | 5                       | 16,529,432                              | 5                        | 5                       |
| Private                                                                 | Medical College of Wisconsin           | 937,909                                 | 120                      | 73                      | 930,961                                 | 116                      | 70                      |
| Public                                                                  | Medical University of South Carolina   | 375,593                                 | 236                      | 94                      | 371,301                                 | 232                      | 92                      |
| Public                                                                  | Michigan State University              | 3,404,779                               | 34                       | 13                      | 3,275,887                               | 33                       | 12                      |
| Public                                                                  | Mississippi State University           | 528,679                                 | 195                      | 78                      | 506,138                                 | 197                      | 78                      |
| Public                                                                  | Montana State University - Bozeman     | 180,168                                 | 390                      | 150                     | 178,156                                 | 384                      | 148                     |
| Public                                                                  | Naval Postgraduate School              |                                         |                          |                         |                                         |                          |                         |
| Public                                                                  | New Jersey Institute of Technology     | 129,455                                 | 476                      | 173                     | 120,068                                 | 487                      | 174                     |
| Public                                                                  | New Mexico State Univ. - Las Cruces    | 182,676                                 | 385                      | 148                     | 175,633                                 | 386                      | 149                     |
| Private                                                                 | New York University                    | 4,345,608                               | 27                       | 20                      | 4,262,116                               | 26                       | 19                      |
| Public                                                                  | North Carolina State University        | 1,400,655                               | 77                       | 30                      | 1,293,743                               | 81                       | 30                      |
| Private                                                                 | Northeastern University                | 1,055,474                               | 106                      | 64                      | 831,129                                 | 126                      | 79                      |
| Private                                                                 | Northwestern University                | 11,091,516                              | 11                       | 8                       | 11,087,659                              | 10                       | 7                       |
| Public                                                                  | Ohio State University - Columbus       | 5,256,759                               | 24                       | 5                       | 5,211,434                               | 22                       | 5                       |
| Public                                                                  | Oklahoma State University - Stillwater | 642,500                                 | 168                      | 63                      | 642,900                                 | 163                      | 59                      |
| Public                                                                  | Oregon Health & Science University     | 877,758                                 | 126                      | 49                      | 745,744                                 | 141                      | 51                      |

# The Top American Research Universities

| 2017<br>Endowment<br>Assets<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Endowment<br>Assets<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Endowment<br>Assets<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| 665,488                                 | 148                      | 53                      | 612,590                                 | 149                      | 53                      | 643,188                                 | 144                      | 51                      |
| 738,018                                 | 133                      | 48                      | 646,624                                 | 142                      | 51                      | 641,993                                 | 145                      | 52                      |
| 227,565                                 | 300                      | 119                     | 212,447                                 | 290                      | 119                     | 210,595                                 | 297                      | 120                     |
| 1,166,562                               | 80                       | 52                      | 1,063,678                               | 81                       | 52                      | 1,095,326                               | 80                       | 53                      |
| 1,957,021                               | 48                       | 31                      | 1,654,531                               | 52                       | 34                      | 1,644,117                               | 53                       | 36                      |
| 3,245,531                               | 30                       | 21                      | 2,963,366                               | 30                       | 21                      | 3,073,349                               | 31                       | 21                      |
| 2,606,505                               | 34                       | 22                      | 2,217,372                               | 37                       | 23                      | 2,198,887                               | 39                       | 25                      |
| 2,154,099                               | 43                       | 28                      | 1,708,618                               | 49                       | 32                      | 1,739,474                               | 52                       | 35                      |
| 1,798,790                               | 54                       | 35                      | 1,662,739                               | 51                       | 33                      | 1,775,999                               | 51                       | 34                      |
| 682,736                                 | 143                      | 52                      | 621,294                                 | 147                      | 52                      | 648,611                                 | 142                      | 50                      |
| 76,400                                  | 634                      | 224                     | 72,700                                  | 611                      | 217                     | 74,900                                  | 571                      | 201                     |
|                                         |                          |                         |                                         |                          |                         |                                         |                          |                         |
| 330,200                                 | 239                      | 94                      | 286,348                                 | 246                      | 98                      | 281,355                                 | 252                      | 99                      |
| 9,996,596                               | 11                       | 8                       | 9,041,027                               | 11                       | 8                       | 9,639,065                               | 11                       | 8                       |
| 5,298,076                               | 19                       | 15                      | 4,524,419                               | 20                       | 16                      | 4,760,560                               | 19                       | 15                      |
| 4,956,494                               | 21                       | 17                      | 4,474,404                               | 21                       | 17                      | 4,663,491                               | 21                       | 17                      |
| 707,650                                 | 141                      | 90                      | 650,252                                 | 140                      | 90                      | 668,386                                 | 139                      | 91                      |
| 7,911,175                               | 13                       | 10                      | 6,839,780                               | 15                       | 12                      | 7,296,545                               | 14                       | 11                      |
| 6,905,465                               | 16                       | 13                      | 6,401,650                               | 16                       | 13                      | 6,684,305                               | 16                       | 13                      |
| 196,281                                 | 334                      | 131                     | 174,061                                 | 340                      | 135                     | 178,750                                 | 340                      | 133                     |
| 639,371                                 | 158                      | 57                      | 584,529                                 | 154                      | 56                      | 605,275                                 | 151                      | 56                      |
| 77,692                                  | 622                      | 220                     | 71,566                                  | 621                      | 219                     | 72,245                                  | 587                      | 208                     |
| 1,729,147                               | 57                       | 38                      | 1,570,278                               | 56                       | 38                      | 1,616,357                               | 56                       | 37                      |
| 1,661,745                               | 59                       | 40                      | 1,483,502                               | 61                       | 41                      | 1,528,869                               | 60                       | 39                      |
| 1,985,802                               | 47                       | 17                      | 1,843,764                               | 46                       | 17                      | 1,858,977                               | 46                       | 16                      |
| 155,303                                 | 407                      | 154                     | 140,677                                 | 402                      | 152                     | 135,418                                 | 402                      | 153                     |
| 36,021,516                              | 1                        | 1                       | 34,541,893                              | 1                        | 1                       | 36,448,817                              | 1                        | 1                       |
| 675,121                                 | 146                      | 94                      | 659,261                                 | 138                      | 89                      | 717,372                                 | 128                      | 82                      |
| 1,081,730                               | 89                       | 35                      | 991,134                                 | 89                       | 33                      | 960,625                                 | 90                       | 33                      |
| 838,871                                 | 118                      | 45                      | 760,461                                 | 116                      | 44                      | 786,205                                 | 113                      | 43                      |
| 3,844,918                               | 28                       | 20                      | 3,381,281                               | 28                       | 20                      | 3,412,617                               | 28                       | 20                      |
| 450,462                                 | 200                      | 80                      | 475,617                                 | 179                      | 71                      | 488,936                                 | 174                      | 68                      |
| 457,333                                 | 197                      | 78                      | 416,717                                 | 196                      | 80                      | 427,852                                 | 195                      | 79                      |
| 14,967,983                              | 5                        | 5                       | 13,433,036                              | 5                        | 5                       | 13,474,743                              | 5                        | 5                       |
| 875,817                                 | 108                      | 67                      | 748,862                                 | 119                      | 73                      | 778,315                                 | 115                      | 72                      |
| 342,052                                 | 231                      | 91                      | 312,002                                 | 231                      | 92                      | 322,644                                 | 227                      | 91                      |
| 3,036,532                               | 32                       | 11                      | 2,585,841                               | 33                       | 12                      | 2,672,822                               | 34                       | 13                      |
| 472,000                                 | 195                      | 77                      | 444,485                                 | 191                      | 77                      | 449,106                                 | 185                      | 75                      |
| 165,708                                 | 386                      | 147                     | 138,207                                 | 407                      | 154                     | 142,661                                 | 395                      | 150                     |
| 5,692                                   | 1,395                    | 606                     | 5,184                                   | 1,389                    | 604                     | 5,086                                   | 1,137                    | 481                     |
| 111,434                                 | 485                      | 174                     | 98,006                                  | 496                      | 177                     | 99,257                                  | 477                      | 172                     |
| 167,496                                 | 382                      | 146                     | 152,317                                 | 372                      | 145                     | 221,005                                 | 286                      | 117                     |
| 3,992,000                               | 26                       | 19                      | 3,487,702                               | 27                       | 19                      | 3,576,180                               | 26                       | 19                      |
| 1,122,899                               | 85                       | 31                      | 998,600                                 | 87                       | 32                      | 983,979                                 | 88                       | 32                      |
| 778,948                                 | 128                      | 81                      | 693,025                                 | 129                      | 82                      | 729,400                                 | 124                      | 79                      |
| 10,436,692                              | 10                       | 7                       | 9,648,497                               | 10                       | 7                       | 10,193,037                              | 7                        | 6                       |
| 4,253,459                               | 24                       | 7                       | 3,578,562                               | 25                       | 7                       | 3,633,887                               | 24                       | 6                       |
| 586,600                                 | 164                      | 60                      | 545,500                                 | 161                      | 59                      | 581,400                                 | 154                      | 58                      |
| 655,992                                 | 153                      | 56                      | 570,485                                 | 157                      | 58                      | 571,341                                 | 155                      | 59                      |

## The Top American Research Universities

| Endowment Assets                                                        |                                         |                                         |                          |                         |                                         |                          |                         |
|-------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                         | 2019<br>Endowment<br>Assets<br>x \$1000 | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>Endowment<br>Assets<br>x \$1000 | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                  | Oregon State University                 | 622,473                                 | 170                      | 64                      | 595,763                                 | 170                      | 64                      |
| Public                                                                  | Penn. State Univ. - Hershey Med. Ctr.   | 615,247                                 | 174                      | 66                      | 550,797                                 | 186                      | 74                      |
| Public                                                                  | Pennsylvania State Univ. - Univ. Park   | 2,549,603                               | 39                       | 16                      | 2,340,887                               | 43                       | 16                      |
| Private                                                                 | Princeton University                    | 26,116,023                              | 4                        | 4                       | 25,917,199                              | 4                        | 4                       |
| Public                                                                  | Purdue University - West Lafayette      | 2,625,278                               | 38                       | 15                      | 2,523,770                               | 38                       | 15                      |
| Private                                                                 | Rensselaer Polytechnic Institute        | 739,648                                 | 147                      | 93                      | 718,199                                 | 149                      | 95                      |
| Private                                                                 | Rice University                         | 6,481,102                               | 18                       | 14                      | 6,277,506                               | 18                       | 14                      |
| Private                                                                 | Rockefeller University                  | 2,293,239                               | 46                       | 30                      | 2,194,245                               | 45                       | 29                      |
| Private                                                                 | Rush University                         | 620,253                                 | 172                      | 108                     | 602,792                                 | 169                      | 106                     |
| Public                                                                  | Rutgers University - New Brunswick      | 1,253,185                               | 86                       | 34                      | 1,094,224                               | 95                       | 38                      |
| Private                                                                 | Scripps Research Institute              |                                         |                          |                         |                                         |                          |                         |
| Private                                                                 | Stanford University                     | 27,699,834                              | 3                        | 3                       | 26,464,912                              | 3                        | 3                       |
| Public                                                                  | St. Univ. of NY - Polytechnic Institute | 6,796                                   | 1,407                    | 621                     | 6,954                                   | 1,398                    | 609                     |
| Public                                                                  | Stony Brook University                  | 341,878                                 | 254                      | 101                     | 305,017                                 | 268                      | 106                     |
| Public                                                                  | Temple University                       | 644,089                                 | 167                      | 62                      | 642,326                                 | 164                      | 60                      |
| Public                                                                  | Texas A&M Univ. - College Station       | 12,736,450                              | 8                        | 2                       | 12,792,244                              | 8                        | 2                       |
| Private                                                                 | Thomas Jefferson University             | 954,177                                 | 115                      | 69                      | 932,897                                 | 115                      | 69                      |
| Private                                                                 | Tufts University                        | 1,867,962                               | 56                       | 37                      | 1,845,956                               | 56                       | 37                      |
| Private                                                                 | Tulane University                       | 1,429,707                               | 72                       | 46                      | 1,384,371                               | 72                       | 46                      |
| Public                                                                  | Uniformed Services Univ. of the HS      |                                         |                          |                         |                                         |                          |                         |
| Public                                                                  | University at Albany                    | 75,126                                  | 677                      | 249                     | 71,701                                  | 686                      | 250                     |
| Public                                                                  | University at Buffalo                   | 794,895                                 | 134                      | 50                      | 725,000                                 | 146                      | 53                      |
| Public                                                                  | University of Alabama - Birmingham      | 519,025                                 | 198                      | 80                      | 504,530                                 | 198                      | 79                      |
| Public                                                                  | University of Alabama - Huntsville      | 77,250                                  | 670                      | 246                     | 78,545                                  | 650                      | 235                     |
| Public                                                                  | University of Alaska - Fairbanks        | 230,603                                 | 317                      | 126                     | 211,456                                 | 332                      | 130                     |
| Public                                                                  | University of Arizona                   | 1,038,133                               | 108                      | 44                      | 959,632                                 | 112                      | 45                      |
| Public                                                                  | University of Arkansas - Fayetteville   | 1,221,935                               | 90                       | 37                      | 1,185,715                               | 87                       | 33                      |
| Public                                                                  | Univ. of Arkansas for Med. Sciences     | 60,485                                  | 743                      | 275                     | 37,553                                  | 939                      | 350                     |
| Public                                                                  | University of California - Berkeley     | 4,903,675                               | 25                       | 6                       | 4,730,836                               | 23                       | 6                       |
| Public                                                                  | University of California - Davis        | 1,670,738                               | 66                       | 23                      | 1,416,342                               | 69                       | 24                      |
| Public                                                                  | University of California - Irvine       | 1,029,020                               | 109                      | 45                      | 972,185                                 | 110                      | 44                      |
| Public                                                                  | University of California - Los Angeles  | 4,902,768                               | 26                       | 7                       | 4,608,029                               | 25                       | 7                       |
| Public                                                                  | University of California - Riverside    | 257,119                                 | 294                      | 120                     | 250,220                                 | 294                      | 118                     |
| Public                                                                  | University of California - San Diego    | 1,746,546                               | 62                       | 22                      | 1,625,687                               | 65                       | 22                      |
| Public                                                                  | Univ. of California - San Francisco     | 3,679,094                               | 31                       | 10                      | 3,212,862                               | 34                       | 13                      |
| Public                                                                  | Univ. of California - Santa Barbara     | 263,100                                 | 290                      | 118                     | 210,152                                 | 334                      | 131                     |
| Public                                                                  | University of California - Santa Cruz   | 210,387                                 | 347                      | 138                     | 203,032                                 | 348                      | 138                     |
| Public                                                                  | University of Central Florida           | 164,722                                 | 415                      | 158                     | 163,462                                 | 408                      | 155                     |
| Private                                                                 | University of Chicago                   | 8,263,868                               | 14                       | 11                      | 7,928,485                               | 14                       | 11                      |
| Public                                                                  | University of Cincinnati - Cincinnati   | 1,453,000                               | 71                       | 26                      | 1,367,000                               | 73                       | 27                      |
| Public                                                                  | University of Colorado - Boulder        | 705,656                                 | 156                      | 57                      | 655,576                                 | 160                      | 58                      |
| Public                                                                  | U. of Colorado - Denver/Anschutz Med.   | 552,885                                 | 188                      | 75                      | 564,690                                 | 181                      | 70                      |
| Public                                                                  | Univ. of Connecticut - Health Center    | 108,381                                 | 535                      | 194                     | 113,146                                 | 506                      | 181                     |
| Public                                                                  | University of Connecticut - Storrs      | 353,994                                 | 247                      | 99                      | 334,071                                 | 250                      | 99                      |
| Private                                                                 | University of Dayton                    | 604,176                                 | 176                      | 109                     | 568,374                                 | 180                      | 111                     |
| Public                                                                  | University of Delaware                  | 1,466,070                               | 70                       | 25                      | 1,413,197                               | 70                       | 25                      |
| Public                                                                  | University of Florida                   | 1,825,250                               | 59                       | 21                      | 1,734,661                               | 61                       | 21                      |
| Public                                                                  | University of Georgia                   | 1,343,987                               | 82                       | 33                      | 1,274,343                               | 82                       | 31                      |
| Public                                                                  | University of Hawaii - Manoa            | 326,993                                 | 261                      | 103                     | 321,040                                 | 255                      | 101                     |

## The Top American Research Universities

| 2017<br>Endowment<br>Assets<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Endowment<br>Assets<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Endowment<br>Assets<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| 549,448                                 | 171                      | 65                      | 492,543                                 | 173                      | 67                      | 505,369                                 | 170                      | 66                      |
| 498,497                                 | 187                      | 73                      | 449,943                                 | 186                      | 75                      | 436,288                                 | 191                      | 76                      |
| 2,118,610                               | 45                       | 16                      | 1,912,254                               | 44                       | 16                      | 1,854,222                               | 47                       | 17                      |
| 23,812,241                              | 4                        | 4                       | 22,152,580                              | 4                        | 4                       | 22,723,473                              | 3                        | 3                       |
| 2,424,872                               | 38                       | 15                      | 2,254,541                               | 35                       | 13                      | 2,397,902                               | 35                       | 14                      |
| 677,231                                 | 145                      | 93                      | 634,916                                 | 144                      | 93                      | 676,546                                 | 138                      | 90                      |
| 5,814,444                               | 18                       | 14                      | 5,324,289                               | 18                       | 14                      | 5,557,479                               | 18                       | 14                      |
| 2,049,395                               | 46                       | 30                      | 1,887,407                               | 45                       | 29                      | 1,987,027                               | 44                       | 29                      |
| 595,869                                 | 162                      | 103                     | 538,823                                 | 162                      | 103                     | 555,610                                 | 158                      | 99                      |
| 985,463                                 | 97                       | 38                      | 865,867                                 | 101                      | 40                      | 710,802                                 | 129                      | 47                      |
|                                         |                          |                         |                                         |                          |                         |                                         |                          |                         |
| 24,784,943                              | 3                        | 3                       | 22,398,130                              | 3                        | 3                       | 22,222,957                              | 4                        | 4                       |
| 6,684                                   | 1,376                    | 590                     | 5,225                                   | 1,388                    | 603                     | 6,383                                   | 1,123                    | 468                     |
| 290,031                                 | 262                      | 102                     | 262,191                                 | 263                      | 103                     | 247,397                                 | 274                      | 108                     |
| 581,960                                 | 165                      | 61                      | 494,187                                 | 172                      | 66                      | 386,230                                 | 207                      | 85                      |
| 10,908,003                              | 9                        | 3                       | 9,944,936                               | 8                        | 2                       | 9,856,983                               | 10                       | 3                       |
| 841,741                                 | 117                      | 73                      | 788,426                                 | 110                      | 67                      | 708,033                                 | 130                      | 83                      |
| 1,738,706                               | 56                       | 37                      | 1,562,968                               | 57                       | 39                      | 1,593,019                               | 57                       | 38                      |
| 1,288,374                               | 71                       | 46                      | 1,150,687                               | 74                       | 48                      | 1,220,464                               | 68                       | 45                      |
|                                         |                          |                         |                                         |                          |                         |                                         |                          |                         |
| 65,342                                  | 688                      | 250                     | 59,273                                  | 690                      | 249                     | 54,810                                  | 679                      | 246                     |
| 659,156                                 | 151                      | 55                      | 600,961                                 | 152                      | 54                      | 619,296                                 | 149                      | 54                      |
| 475,558                                 | 194                      | 76                      | 431,459                                 | 193                      | 79                      | 388,405                                 | 206                      | 84                      |
| 75,244                                  | 640                      | 226                     | 71,053                                  | 626                      | 222                     | 65,978                                  | 623                      | 226                     |
| 187,163                                 | 346                      | 135                     | 198,196                                 | 306                      | 122                     | 189,476                                 | 323                      | 129                     |
| 843,529                                 | 115                      | 44                      | 754,651                                 | 118                      | 46                      | 767,940                                 | 117                      | 44                      |
| 996,019                                 | 95                       | 36                      | 898,908                                 | 97                       | 37                      | 948,679                                 | 92                       | 35                      |
| 34,830                                  | 941                      | 346                     | 31,733                                  | 942                      | 348                     | 32,632                                  | 846                      | 311                     |
| 4,271,453                               | 23                       | 6                       | 3,845,281                               | 23                       | 6                       | 4,045,451                               | 23                       | 5                       |
| 1,107,701                               | 86                       | 32                      | 965,805                                 | 90                       | 34                      | 1,013,936                               | 86                       | 30                      |
| 869,491                                 | 110                      | 43                      | 498,171                                 | 170                      | 65                      | 512,904                                 | 168                      | 64                      |
| 4,356,826                               | 22                       | 5                       | 3,849,133                               | 22                       | 5                       | 3,493,903                               | 27                       | 8                       |
| 226,990                                 | 301                      | 120                     | 191,420                                 | 318                      | 126                     | 185,335                                 | 331                      | 131                     |
| 1,339,164                               | 69                       | 24                      | 1,176,581                               | 70                       | 25                      | 951,367                                 | 91                       | 34                      |
| 2,545,101                               | 35                       | 13                      | 2,112,014                               | 39                       | 15                      | 2,124,970                               | 41                       | 15                      |
| 322,419                                 | 245                      | 97                      | 274,371                                 | 252                      | 100                     | 265,930                                 | 260                      | 104                     |
| 191,185                                 | 340                      | 133                     | 162,211                                 | 358                      | 142                     | 164,331                                 | 360                      | 141                     |
| 156,863                                 | 405                      | 152                     | 146,416                                 | 385                      | 148                     | 150,627                                 | 378                      | 146                     |
| 7,523,720                               | 14                       | 11                      | 7,001,204                               | 14                       | 11                      | 7,549,710                               | 13                       | 10                      |
| 1,282,824                               | 73                       | 27                      | 1,165,522                               | 71                       | 26                      | 1,195,899                               | 71                       | 25                      |
| 596,407                                 | 161                      | 59                      | 583,190                                 | 155                      | 57                      | 598,355                                 | 153                      | 57                      |
| 493,142                                 | 190                      | 74                      | 479,474                                 | 177                      | 70                      | 491,942                                 | 173                      | 67                      |
| 105,934                                 | 503                      | 179                     | 83,260                                  | 553                      | 195                     | 103,450                                 | 462                      | 169                     |
| 315,960                                 | 249                      | 99                      | 275,335                                 | 251                      | 99                      | 279,699                                 | 255                      | 102                     |
| 525,221                                 | 177                      | 109                     | 473,122                                 | 180                      | 109                     | 500,407                                 | 171                      | 105                     |
| 1,364,057                               | 68                       | 23                      | 1,261,790                               | 66                       | 22                      | 1,341,373                               | 65                       | 22                      |
| 1,612,003                               | 61                       | 21                      | 1,461,347                               | 63                       | 21                      | 1,555,703                               | 58                       | 20                      |
| 1,151,904                               | 81                       | 29                      | 1,016,732                               | 84                       | 30                      | 1,004,987                               | 87                       | 31                      |
| 307,777                                 | 253                      | 100                     | 271,180                                 | 256                      | 101                     | 280,210                                 | 254                      | 101                     |

| Endowment Assets                                                        |                                       |                                         |                          |                         |                                         |                          |                         |
|-------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2019<br>Endowment<br>Assets<br>x \$1000 | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>Endowment<br>Assets<br>x \$1000 | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                  | University of Houston - Univ. Park    | 658,493                                 | 164                      | 59                      | 641,843                                 | 165                      | 61                      |
| Public                                                                  | University of Idaho                   | 291,868                                 | 276                      | 110                     | 280,997                                 | 276                      | 110                     |
| Public                                                                  | University of Illinois - Chicago      | 357,455                                 | 243                      | 97                      | 350,744                                 | 241                      | 95                      |
| Public                                                                  | Univ. of Illinois - Urbana-Champaign  | 1,857,157                               | 58                       | 20                      | 1,800,156                               | 58                       | 20                      |
| Public                                                                  | University of Iowa                    | 1,578,933                               | 68                       | 24                      | 1,500,456                               | 68                       | 23                      |
| Public                                                                  | University of Kansas - Lawrence       | 1,419,568                               | 73                       | 27                      | 1,342,128                               | 76                       | 29                      |
| Public                                                                  | University of Kansas Medical Center   | 397,363                                 | 226                      | 90                      | 398,635                                 | 220                      | 88                      |
| Public                                                                  | University of Kentucky                | 1,407,221                               | 75                       | 28                      | 1,361,246                               | 74                       | 28                      |
| Public                                                                  | University of Louisville              | 719,816                                 | 151                      | 55                      | 712,295                                 | 151                      | 55                      |
| Public                                                                  | University of Maine - Orono           | 337,808                                 | 255                      | 102                     | 327,276                                 | 252                      | 100                     |
| Public                                                                  | University of Maryland - Baltimore    | 361,175                                 | 242                      | 96                      | 313,244                                 | 261                      | 102                     |
| Public                                                                  | Univ. of Maryland - Baltimore County  | 102,019                                 | 553                      | 201                     | 96,845                                  | 569                      | 201                     |
| Public                                                                  | University of Maryland - College Park | 652,556                                 | 165                      | 60                      | 605,540                                 | 168                      | 63                      |
| Public                                                                  | Univ. of Massachusetts - Amherst      | 367,075                                 | 239                      | 95                      | 346,953                                 | 244                      | 96                      |
| Public                                                                  | Univ. of Mass. Med. Sch. - Worcester  | 295,000                                 | 271                      | 107                     | 207,500                                 | 338                      | 133                     |
| Private                                                                 | University of Miami                   | 997,413                                 | 112                      | 67                      | 1,021,508                               | 101                      | 61                      |
| Public                                                                  | University of Michigan - Ann Arbor    | 12,448,817                              | 9                        | 3                       | 11,901,760                              | 9                        | 3                       |
| Public                                                                  | University of Minnesota - Twin Cities | 3,951,464                               | 30                       | 9                       | 3,717,476                               | 29                       | 9                       |
| Public                                                                  | University of Missouri - Columbia     | 1,052,760                               | 107                      | 43                      | 1,005,121                               | 104                      | 41                      |
| Public                                                                  | University of Montana - Missoula      | 205,046                                 | 353                      | 141                     | 189,510                                 | 365                      | 142                     |
| Public                                                                  | University of Nebraska - Lincoln      | 1,082,434                               | 101                      | 41                      | 978,745                                 | 108                      | 43                      |
| Public                                                                  | University of Nebraska Medical Ctr.   | 235,757                                 | 311                      | 124                     | 279,641                                 | 279                      | 111                     |
| Public                                                                  | University of Nevada - Reno           | 377,446                                 | 233                      | 92                      | 358,433                                 | 238                      | 93                      |
| Public                                                                  | Univ. of New Hampshire - Durham       | 403,858                                 | 222                      | 88                      | 389,492                                 | 225                      | 89                      |
| Public                                                                  | Univ. of New Mexico - Albuquerque     | 457,313                                 | 210                      | 85                      | 452,527                                 | 208                      | 86                      |
| Public                                                                  | Univ. of North Carolina - Chapel Hill | 3,671,351                               | 32                       | 11                      | 3,432,911                               | 31                       | 10                      |
| Public                                                                  | University of North Dakota            | 284,804                                 | 281                      | 113                     | 278,583                                 | 280                      | 112                     |
| Private                                                                 | University of Notre Dame              | 11,268,365                              | 10                       | 7                       | 10,727,653                              | 12                       | 9                       |
| Public                                                                  | University of Oklahoma - HSC          | 565,500                                 | 183                      | 72                      | 570,988                                 | 177                      | 68                      |
| Public                                                                  | University of Oklahoma - Norman       | 1,384,500                               | 79                       | 31                      | 1,164,539                               | 89                       | 35                      |
| Public                                                                  | University of Oregon                  | 1,131,111                               | 95                       | 39                      | 912,512                                 | 118                      | 47                      |
| Private                                                                 | University of Pennsylvania            | 14,649,762                              | 6                        | 6                       | 13,777,441                              | 6                        | 6                       |
| Public                                                                  | University of Pittsburgh - Pittsburgh | 4,311,387                               | 28                       | 8                       | 4,200,206                               | 27                       | 8                       |
| Public                                                                  | University of Rhode Island            | 149,154                                 | 441                      | 164                     | 139,578                                 | 448                      | 163                     |
| Private                                                                 | University of Rochester               | 2,239,720                               | 47                       | 31                      | 2,177,868                               | 46                       | 30                      |
| Public                                                                  | Univ. of South Carolina - Columbia    | 713,376                                 | 153                      | 56                      | 761,784                                 | 138                      | 50                      |
| Public                                                                  | University of South Florida - Tampa   | 513,545                                 | 199                      | 81                      | 480,427                                 | 203                      | 83                      |
| Private                                                                 | University of Southern California     | 5,732,101                               | 22                       | 18                      | 5,549,556                               | 20                       | 16                      |
| Public                                                                  | University of Tennessee - Knoxville   | 750,492                                 | 145                      | 54                      | 709,776                                 | 152                      | 56                      |
| Public                                                                  | University of Texas - Austin          | 13,817,599                              | 7                        | 1                       | 13,750,233                              | 7                        | 1                       |
| Public                                                                  | University of Texas - El Paso         | 267,894                                 | 288                      | 117                     | 262,396                                 | 287                      | 117                     |
| Public                                                                  | University of Texas HSC - Houston     | 552,060                                 | 189                      | 76                      | 528,594                                 | 191                      | 77                      |
| Public                                                                  | Univ. of Texas HSC - San Antonio      | 617,388                                 | 173                      | 65                      | 592,869                                 | 173                      | 66                      |
| Public                                                                  | U. of Texas MD Anderson Cancer Ctr.   | 1,405,649                               | 76                       | 29                      | 1,393,379                               | 71                       | 26                      |
| Public                                                                  | U. of Texas Med. Branch - Galveston   | 612,641                                 | 175                      | 67                      | 573,320                                 | 176                      | 67                      |
| Public                                                                  | U. of Texas SW Medical Ctr. - Dallas  | 2,007,032                               | 53                       | 19                      | 1,990,654                               | 52                       | 18                      |
| Public                                                                  | University of Utah                    | 1,225,045                               | 89                       | 36                      | 1,186,952                               | 86                       | 32                      |
| Public                                                                  | University of Vermont                 | 566,714                                 | 182                      | 71                      | 554,985                                 | 183                      | 71                      |
| Public                                                                  | University of Virginia                | 7,058,235                               | 17                       | 4                       | 6,856,309                               | 17                       | 4                       |

## The Top American Research Universities

| 2017<br>Endowment<br>Assets<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Endowment<br>Assets<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Endowment<br>Assets<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| 453,268                                 | 199                      | 79                      | 665,001                                 | 135                      | 49                      | 707,437                                 | 131                      | 48                      |
| 265,087                                 | 273                      | 109                     | 237,528                                 | 278                      | 109                     | 239,603                                 | 276                      | 109                     |
| 321,559                                 | 246                      | 98                      | 287,188                                 | 244                      | 97                      | 302,121                                 | 239                      | 97                      |
| 1,659,338                               | 60                       | 20                      | 1,489,991                               | 60                       | 20                      | 1,530,658                               | 59                       | 21                      |
| 1,397,658                               | 67                       | 22                      | 1,259,309                               | 67                       | 23                      | 1,263,043                               | 67                       | 23                      |
| 1,248,665                               | 76                       | 28                      | 1,150,623                               | 75                       | 27                      | 1,170,313                               | 73                       | 26                      |
| 363,672                                 | 222                      | 88                      | 345,852                                 | 218                      | 87                      | 330,089                                 | 224                      | 89                      |
| 1,285,114                               | 72                       | 26                      | 1,117,852                               | 78                       | 28                      | 1,142,722                               | 77                       | 27                      |
| 719,001                                 | 138                      | 51                      | 715,689                                 | 125                      | 47                      | 844,288                                 | 103                      | 39                      |
| 304,542                                 | 254                      | 101                     | 270,832                                 | 257                      | 102                     | 280,878                                 | 253                      | 100                     |
| 289,659                                 | 264                      | 103                     | 254,733                                 | 266                      | 105                     | 256,008                                 | 269                      | 105                     |
| 87,532                                  | 569                      | 200                     | 78,101                                  | 586                      | 203                     | 75,752                                  | 568                      | 199                     |
| 518,808                                 | 179                      | 70                      | 466,075                                 | 184                      | 73                      | 482,628                                 | 175                      | 69                      |
| 323,759                                 | 244                      | 96                      | 287,213                                 | 243                      | 96                      | 303,984                                 | 238                      | 96                      |
| 204,717                                 | 326                      | 127                     | 183,435                                 | 328                      | 130                     | 194,251                                 | 319                      | 127                     |
| 948,579                                 | 103                      | 62                      | 844,643                                 | 102                      | 62                      | 887,329                                 | 96                       | 60                      |
| 10,936,014                              | 8                        | 2                       | 9,743,461                               | 9                        | 3                       | 9,952,113                               | 9                        | 2                       |
| 3,493,641                               | 29                       | 9                       | 3,280,681                               | 29                       | 9                       | 3,297,460                               | 29                       | 9                       |
| 970,162                                 | 100                      | 40                      | 869,566                                 | 99                       | 39                      | 857,471                                 | 100                      | 38                      |
| 186,285                                 | 348                      | 137                     | 167,307                                 | 350                      | 138                     | 172,756                                 | 347                      | 137                     |
| 958,039                                 | 102                      | 41                      | 869,874                                 | 98                       | 38                      | 906,156                                 | 94                       | 36                      |
| 254,949                                 | 281                      | 112                     | 223,753                                 | 285                      | 115                     | 226,077                                 | 282                      | 114                     |
| 338,894                                 | 236                      | 93                      | 302,698                                 | 238                      | 94                      | 306,587                                 | 235                      | 94                      |
| 363,202                                 | 223                      | 89                      | 330,131                                 | 223                      | 90                      | 346,926                                 | 217                      | 87                      |
| 423,496                                 | 207                      | 85                      | 393,240                                 | 202                      | 83                      | 403,670                                 | 203                      | 82                      |
| 3,027,227                               | 33                       | 12                      | 2,889,679                               | 31                       | 10                      | 2,988,806                               | 32                       | 11                      |
| 265,616                                 | 272                      | 108                     | 230,461                                 | 282                      | 113                     | 230,600                                 | 279                      | 112                     |
| 9,352,376                               | 12                       | 9                       | 8,374,083                               | 12                       | 9                       | 8,566,952                               | 12                       | 9                       |
| 541,406                                 | 172                      | 66                      | 516,920                                 | 168                      | 63                      | 456,907                                 | 181                      | 73                      |
| 1,104,778                               | 87                       | 33                      | 1,003,434                               | 85                       | 31                      | 1,066,117                               | 82                       | 28                      |
| 828,459                                 | 120                      | 46                      | 758,692                                 | 117                      | 45                      | 719,111                                 | 127                      | 46                      |
| 12,213,202                              | 6                        | 6                       | 10,715,364                              | 7                        | 6                       | 10,133,569                              | 8                        | 7                       |
| 3,945,687                               | 27                       | 8                       | 3,524,904                               | 26                       | 8                       | 3,588,775                               | 25                       | 7                       |
| 128,520                                 | 455                      | 165                     | 124,629                                 | 434                      | 160                     | 131,655                                 | 409                      | 154                     |
| 2,121,390                               | 44                       | 29                      | 1,927,573                               | 43                       | 28                      | 2,050,199                               | 43                       | 28                      |
| 724,535                                 | 137                      | 50                      | 655,469                                 | 139                      | 50                      | 625,186                                 | 148                      | 53                      |
| 442,033                                 | 203                      | 82                      | 395,324                                 | 201                      | 82                      | 417,415                                 | 197                      | 81                      |
| 5,130,520                               | 20                       | 16                      | 4,608,717                               | 19                       | 15                      | 4,709,511                               | 20                       | 16                      |
| 659,489                                 | 150                      | 54                      | 597,475                                 | 153                      | 55                      | 608,873                                 | 150                      | 55                      |
| 11,867,843                              | 7                        | 1                       | 10,935,781                              | 6                        | 1                       | 10,507,795                              | 6                        | 1                       |
| 241,666                                 | 285                      | 116                     | 218,880                                 | 288                      | 117                     | 217,286                                 | 290                      | 118                     |
| 385,822                                 | 216                      | 87                      | 336,086                                 | 222                      | 89                      | 306,094                                 | 236                      | 95                      |
| 550,950                                 | 170                      | 64                      | 486,652                                 | 174                      | 68                      | 476,632                                 | 177                      | 71                      |
| 1,317,622                               | 70                       | 25                      | 1,212,099                               | 69                       | 24                      | 1,200,742                               | 70                       | 24                      |
| 539,846                                 | 173                      | 67                      | 533,972                                 | 165                      | 61                      | 531,562                                 | 165                      | 62                      |
| 1,819,970                               | 53                       | 19                      | 1,684,130                               | 50                       | 18                      | 1,620,501                               | 55                       | 19                      |
| 1,127,686                               | 84                       | 30                      | 1,071,926                               | 80                       | 29                      | 1,023,004                               | 85                       | 29                      |
| 521,867                                 | 178                      | 69                      | 467,702                                 | 182                      | 72                      | 453,653                                 | 183                      | 74                      |
| 6,393,561                               | 17                       | 4                       | 5,852,309                               | 17                       | 4                       | 6,180,515                               | 17                       | 4                       |

| Endowment Assets                                                        |                                       |                                         |                          |                         |                                         |                          |                         |
|-------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2019<br>Endowment<br>Assets<br>x \$1000 | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>Endowment<br>Assets<br>x \$1000 | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                  | University of Washington - Seattle    | 2,935,220                               | 36                       | 14                      | 2,764,166                               | 36                       | 14                      |
| Public                                                                  | University of Wisconsin - Madison     | 3,553,672                               | 33                       | 12                      | 3,365,989                               | 32                       | 11                      |
| Public                                                                  | University of Wyoming                 | 531,547                                 | 193                      | 77                      | 550,909                                 | 185                      | 73                      |
| Public                                                                  | Utah State University                 | 402,862                                 | 223                      | 89                      | 375,424                                 | 231                      | 91                      |
| Private                                                                 | Vanderbilt University                 | 6,270,877                               | 20                       | 16                      | 4,608,461                               | 24                       | 18                      |
| Public                                                                  | Virginia Commonwealth University      | 2,042,520                               | 52                       | 18                      | 1,951,337                               | 54                       | 19                      |
| Public                                                                  | Virginia Polytechnic Inst. and St. U. | 1,357,969                               | 81                       | 32                      | 1,146,055                               | 91                       | 37                      |
| Private                                                                 | Wake Forest University                | 1,375,398                               | 80                       | 49                      | 1,339,003                               | 77                       | 48                      |
| Public                                                                  | Washington State Univ. - Pullman      | 1,067,842                               | 104                      | 42                      | 1,024,380                               | 100                      | 40                      |
| Private                                                                 | Washington University in St. Louis    | 7,953,986                               | 15                       | 12                      | 7,594,159                               | 15                       | 12                      |
| Public                                                                  | Wayne State University                | 394,509                                 | 227                      | 91                      | 376,467                                 | 229                      | 90                      |
| Private                                                                 | Weill Cornell Medical College         | 1,522,808                               | 69                       | 45                      | 1,597,894                               | 67                       | 45                      |
| Public                                                                  | West Virginia University              | 589,835                                 | 177                      | 68                      | 593,085                                 | 172                      | 65                      |
| Private                                                                 | Woods Hole Oceanographic Inst.        |                                         |                          |                         |                                         |                          |                         |
| Public                                                                  | Wright State University - Dayton      | 97,080                                  | 573                      | 209                     | 92,847                                  | 577                      | 205                     |
| Private                                                                 | Yale University                       | 30,314,800                              | 2                        | 2                       | 29,351,100                              | 2                        | 2                       |
| Private                                                                 | Yeshiva University                    | 665,001                                 | 163                      | 105                     | 647,619                                 | 161                      | 103                     |

| 2017<br>Endowment<br>Assets<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Endowment<br>Assets<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Endowment<br>Assets<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|-----------------------------------------|--------------------------|-------------------------|
| 2,529,250                               | 36                       | 14                      | 2,237,511                               | 36                       | 14                      | 3,076,226                               | 30                       | 10                      |
| 3,101,888                               | 31                       | 10                      | 2,739,728                               | 32                       | 11                      | 2,792,622                               | 33                       | 12                      |
| 500,299                                 | 186                      | 72                      | 458,486                                 | 185                      | 74                      | 481,469                                 | 176                      | 70                      |
| 358,965                                 | 225                      | 90                      | 325,287                                 | 226                      | 91                      | 314,668                                 | 231                      | 92                      |
| 4,136,465                               | 25                       | 18                      | 3,795,586                               | 24                       | 18                      | 4,133,542                               | 22                       | 18                      |
| 1,843,001                               | 52                       | 18                      | 1,559,874                               | 58                       | 19                      | 1,638,147                               | 54                       | 18                      |
| 995,807                                 | 96                       | 37                      | 842,991                                 | 103                      | 41                      | 817,759                                 | 106                      | 41                      |
| 1,205,323                               | 78                       | 50                      | 1,141,211                               | 77                       | 50                      | 1,167,400                               | 75                       | 49                      |
| 974,029                                 | 99                       | 39                      | 907,828                                 | 96                       | 36                      | 885,777                                 | 97                       | 37                      |
| 7,130,514                               | 15                       | 12                      | 7,056,593                               | 13                       | 10                      | 6,818,748                               | 15                       | 12                      |
| 339,467                                 | 235                      | 92                      | 301,470                                 | 240                      | 95                      | 307,569                                 | 234                      | 93                      |
| 1,459,674                               | 65                       | 44                      | 1,233,303                               | 68                       | 45                      | 1,276,986                               | 66                       | 44                      |
| 566,426                                 | 168                      | 62                      | 511,384                                 | 169                      | 64                      | 533,599                                 | 164                      | 61                      |
|                                         |                          |                         |                                         |                          |                         |                                         |                          |                         |
| 85,798                                  | 575                      | 202                     | 82,862                                  | 557                      | 196                     | 88,661                                  | 514                      | 182                     |
| 27,176,100                              | 2                        | 2                       | 25,408,600                              | 2                        | 2                       | 25,572,100                              | 2                        | 2                       |
| 657,569                                 | 152                      | 97                      | 625,931                                 | 145                      | 94                      | 680,327                                 | 137                      | 89                      |

## The Top American Research Universities

| Annual Giving                                                           |                                        |                                   |                       |                      |                                   |                       |                      |
|-------------------------------------------------------------------------|----------------------------------------|-----------------------------------|-----------------------|----------------------|-----------------------------------|-----------------------|----------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                        | 2019<br>Annual Giving<br>x \$1000 | 2019<br>National Rank | 2019<br>Control Rank | 2018<br>Annual Giving<br>x \$1000 | 2018<br>National Rank | 2018<br>Control Rank |
| Public                                                                  | Arizona State University               | 266,131                           | 36                    | 17                   | 206,024                           | 40                    | 20                   |
| Public                                                                  | Auburn University                      | 96,605                            | 96                    | 60                   | 120,435                           | 73                    | 45                   |
| Public                                                                  | Augusta University                     | 13,656                            | 365                   | 181                  | 13,159                            | 383                   | 185                  |
| Private                                                                 | Baylor College of Medicine             | 44,086                            | 166                   | 68                   | 57,654                            | 128                   | 51                   |
| Private                                                                 | Boston University                      | 170,862                           | 50                    | 24                   | 158,458                           | 55                    | 24                   |
| Private                                                                 | Brown University                       | 239,379                           | 39                    | 21                   | 233,812                           | 37                    | 20                   |
| Private                                                                 | California Institute of Technology     | 240,241                           | 38                    | 20                   | 236,010                           | 35                    | 19                   |
| Private                                                                 | Carnegie Mellon University             | 150,237                           | 59                    | 28                   | 145,694                           | 63                    | 26                   |
| Private                                                                 | Case Western Reserve University        | 112,286                           | 81                    | 31                   | 113,012                           | 79                    | 31                   |
| Public                                                                  | Clemson University                     | 94,260                            | 97                    | 61                   | 103,855                           | 87                    | 55                   |
| Public                                                                  | Cleveland State University             | 14,276                            | 354                   | 175                  | 16,910                            | 312                   | 161                  |
| Private                                                                 | Cold Spring Harbor Laboratory          |                                   |                       |                      |                                   |                       |                      |
| Public                                                                  | Colorado State Univ. - Fort Collins    | 47,548                            | 154                   | 92                   | 79,063                            | 106                   | 65                   |
| Private                                                                 | Columbia University                    | 668,002                           | 7                     | 5                    | 1,009,762                         | 3                     | 3                    |
| Private                                                                 | Cornell University                     | 358,077                           | 25                    | 16                   | 410,909                           | 19                    | 13                   |
| Private                                                                 | Dartmouth College                      | 279,890                           | 33                    | 19                   | 272,619                           | 31                    | 16                   |
| Private                                                                 | Drexel University                      | 55,737                            | 138                   | 54                   | 86,782                            | 98                    | 39                   |
| Private                                                                 | Duke University                        | 507,090                           | 16                    | 12                   | 516,890                           | 12                    | 9                    |
| Private                                                                 | Emory University                       | 513,958                           | 15                    | 11                   | 252,223                           | 33                    | 18                   |
| Public                                                                  | Florida International University       | 39,763                            | 174                   | 102                  | 34,639                            | 197                   | 112                  |
| Public                                                                  | Florida State University               | 92,895                            | 100                   | 62                   | 82,281                            | 103                   | 62                   |
| Public                                                                  | George Mason University                | 97,695                            | 94                    | 59                   | 68,556                            | 120                   | 74                   |
| Private                                                                 | George Washington University           | 113,273                           | 79                    | 30                   | 76,683                            | 112                   | 43                   |
| Private                                                                 | Georgetown University                  | 172,119                           | 49                    | 23                   | 153,404                           | 56                    | 25                   |
| Public                                                                  | Georgia Institute of Technology        | 132,774                           | 68                    | 40                   | 140,439                           | 64                    | 38                   |
| Public                                                                  | Georgia State University               | 25,790                            | 228                   | 127                  | 36,273                            | 183                   | 105                  |
| Private                                                                 | Harvard University                     | 1,378,968                         | 2                     | 2                    | 1,418,702                         | 1                     | 1                    |
| Private                                                                 | Icahn School of Med. at Mount Sinai    | 168,366                           | 51                    | 25                   | 124,788                           | 70                    | 27                   |
| Public                                                                  | Indiana University - Bloomington       | 236,740                           | 40                    | 19                   | 243,443                           | 34                    | 16                   |
| Public                                                                  | Iowa State University                  | 122,717                           | 71                    | 43                   | 168,921                           | 51                    | 28                   |
| Private                                                                 | Johns Hopkins University               | 2,665,590                         | 1                     | 1                    | 723,599                           | 6                     | 4                    |
| Public                                                                  | Kansas State University                | 105,237                           | 87                    | 54                   | 106,979                           | 85                    | 54                   |
| Public                                                                  | Louisiana State Univ. - Baton Rouge    | 111,593                           | 82                    | 51                   | 110,268                           | 81                    | 50                   |
| Private                                                                 | Massachusetts Inst. of Technology      | 594,564                           | 11                    | 8                    | 469,933                           | 16                    | 12                   |
| Private                                                                 | Medical College of Wisconsin           | 42,907                            | 168                   | 69                   | 17,039                            | 310                   | 151                  |
| Public                                                                  | Medical University of South Carolina   | 43,318                            | 167                   | 99                   | 61,089                            | 123                   | 77                   |
| Public                                                                  | Michigan State University              | 177,728                           | 47                    | 25                   | 180,918                           | 45                    | 25                   |
| Public                                                                  | Mississippi State University           | 103,050                           | 89                    | 56                   | 80,588                            | 104                   | 63                   |
| Public                                                                  | Montana State University - Bozeman     | 37,137                            | 183                   | 108                  | 29,266                            | 217                   | 119                  |
| Public                                                                  | Naval Postgraduate School              |                                   |                       |                      |                                   |                       |                      |
| Public                                                                  | New Jersey Institute of Technology     | 13,554                            | 366                   | 182                  | 11,811                            | 413                   | 197                  |
| Public                                                                  | New Mexico State Univ. - Las Cruces    | 16,884                            | 310                   | 161                  | 17,309                            | 308                   | 159                  |
| Private                                                                 | New York University                    | 517,771                           | 14                    | 10                   | 502,407                           | 14                    | 11                   |
| Public                                                                  | North Carolina State University        | 158,539                           | 53                    | 27                   | 165,054                           | 53                    | 30                   |
| Private                                                                 | Northeastern University                | 82,655                            | 108                   | 42                   | 48,254                            | 146                   | 59                   |
| Private                                                                 | Northwestern University                | 390,138                           | 23                    | 15                   | 397,113                           | 20                    | 14                   |
| Public                                                                  | Ohio State University - Columbus       | 406,588                           | 21                    | 8                    | 436,974                           | 17                    | 5                    |
| Public                                                                  | Oklahoma State University - Stillwater | 71,089                            | 116                   | 71                   | 85,240                            | 100                   | 60                   |
| Public                                                                  | Oregon Health & Science University     | 136,236                           | 66                    | 38                   | 148,906                           | 58                    | 33                   |

# The Top American Research Universities

| 2017<br>Annual<br>Giving<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Annual<br>Giving<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Annual<br>Giving<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|--------------------------------------|--------------------------|-------------------------|--------------------------------------|--------------------------|-------------------------|--------------------------------------|--------------------------|-------------------------|
| 179,604                              | 42                       | 20                      | 140,417                              | 60                       | 34                      | 130,775                              | 61                       | 32                      |
| 104,418                              | 81                       | 51                      | 118,477                              | 70                       | 42                      | 106,353                              | 82                       | 48                      |
| 13,483                               | 356                      | 179                     | 11,544                               | 375                      | 185                     | 12,151                               | 348                      | 164                     |
| 70,927                               | 114                      | 43                      | 77,605                               | 100                      | 38                      | 61,656                               | 119                      | 44                      |
| 157,478                              | 50                       | 23                      | 156,941                              | 50                       | 23                      | 140,393                              | 56                       | 26                      |
| 241,987                              | 32                       | 17                      | 207,725                              | 34                       | 19                      | 187,754                              | 37                       | 21                      |
| 235,882                              | 34                       | 18                      | 182,869                              | 41                       | 21                      | 161,929                              | 47                       | 23                      |
| 155,209                              | 51                       | 24                      | 155,302                              | 51                       | 24                      | 139,563                              | 57                       | 27                      |
| 113,767                              | 74                       | 29                      | 158,323                              | 48                       | 22                      | 132,826                              | 58                       | 28                      |
| 85,795                               | 101                      | 62                      | 90,623                               | 91                       | 57                      | 81,861                               | 103                      | 63                      |
| 14,959                               | 333                      | 170                     | 11,802                               | 370                      | 182                     | 17,732                               | 266                      | 130                     |
|                                      |                          |                         |                                      |                          |                         |                                      |                          |                         |
| 60,531                               | 128                      | 79                      | 42,798                               | 155                      | 92                      | 41,342                               | 154                      | 92                      |
| 603,077                              | 8                        | 8                       | 584,809                              | 6                        | 5                       | 552,682                              | 6                        | 5                       |
| 621,155                              | 7                        | 7                       | 427,089                              | 15                       | 11                      | 434,465                              | 17                       | 14                      |
| 216,825                              | 38                       | 21                      | 227,038                              | 32                       | 18                      | 218,832                              | 32                       | 19                      |
| 68,965                               | 116                      | 45                      | 60,905                               | 122                      | 44                      | 88,916                               | 95                       | 38                      |
| 581,051                              | 10                       | 10                      | 506,441                              | 10                       | 8                       | 472,008                              | 11                       | 9                       |
| 218,501                              | 37                       | 20                      | 192,700                              | 38                       | 20                      | 228,034                              | 31                       | 18                      |
| 37,504                               | 177                      | 102                     | 27,820                               | 202                      | 113                     | 23,312                               | 212                      | 110                     |
| 77,268                               | 112                      | 70                      | 75,413                               | 103                      | 65                      | 68,634                               | 112                      | 70                      |
| 66,474                               | 119                      | 73                      | 67,940                               | 113                      | 73                      | 53,164                               | 128                      | 80                      |
| 95,034                               | 93                       | 37                      | 101,391                              | 77                       | 32                      | 248,030                              | 28                       | 16                      |
| 143,251                              | 58                       | 25                      | 153,384                              | 52                       | 25                      | 172,452                              | 43                       | 22                      |
| 119,142                              | 72                       | 44                      | 129,304                              | 64                       | 38                      | 119,118                              | 73                       | 42                      |
| 32,908                               | 189                      | 108                     | 25,164                               | 215                      | 117                     | 16,074                               | 290                      | 146                     |
| 1,283,740                            | 1                        | 1                       | 1,187,530                            | 1                        | 1                       | 1,045,872                            | 2                        | 2                       |
| 98,578                               | 87                       | 33                      | 120,327                              | 68                       | 28                      | 109,733                              | 78                       | 33                      |
| 276,434                              | 27                       | 11                      | 195,908                              | 37                       | 18                      | 211,471                              | 34                       | 15                      |
| 175,453                              | 46                       | 24                      | 90,148                               | 93                       | 58                      | 105,512                              | 83                       | 49                      |
| 636,911                              | 5                        | 5                       | 657,293                              | 4                        | 4                       | 582,675                              | 5                        | 4                       |
| 84,883                               | 104                      | 64                      | 96,626                               | 86                       | 52                      | 98,094                               | 88                       | 53                      |
| 121,572                              | 67                       | 39                      | 147,998                              | 55                       | 30                      | 130,763                              | 62                       | 33                      |
| 672,939                              | 3                        | 3                       | 419,752                              | 16                       | 12                      | 439,404                              | 16                       | 13                      |
| 38,743                               | 169                      | 71                      | 19,028                               | 267                      | 132                     | 20,907                               | 230                      | 112                     |
| 47,569                               | 145                      | 89                      | 44,310                               | 154                      | 91                      | 31,498                               | 178                      | 103                     |
| 199,928                              | 39                       | 18                      | 176,131                              | 43                       | 22                      | 131,499                              | 60                       | 31                      |
| 89,521                               | 97                       | 60                      | 69,763                               | 108                      | 68                      | 56,857                               | 125                      | 78                      |
| 89,511                               | 98                       | 61                      | 21,161                               | 249                      | 130                     | 13,299                               | 331                      | 161                     |
|                                      |                          |                         |                                      |                          |                         |                                      |                          |                         |
| 11,725                               | 394                      | 193                     | 0                                    | 978                      | 499                     | 8,821                                | 443                      | 199                     |
| 16,826                               | 302                      | 155                     | 16,539                               | 306                      | 155                     | 16,568                               | 282                      | 142                     |
| 567,121                              | 11                       | 11                      | 461,150                              | 12                       | 9                       | 439,662                              | 15                       | 12                      |
| 147,125                              | 56                       | 32                      | 129,948                              | 63                       | 37                      | 119,150                              | 72                       | 41                      |
| 125,342                              | 63                       | 27                      | 56,292                               | 134                      | 51                      | 59,857                               | 122                      | 46                      |
| 344,299                              | 20                       | 14                      | 401,679                              | 17                       | 13                      | 536,831                              | 8                        | 7                       |
| 401,850                              | 19                       | 6                       | 386,112                              | 18                       | 5                       | 359,798                              | 21                       | 6                       |
| 98,640                               | 86                       | 54                      | 98,781                               | 82                       | 49                      | 77,009                               | 104                      | 64                      |
| 175,675                              | 45                       | 23                      | 156,961                              | 49                       | 27                      | 141,018                              | 55                       | 30                      |

| Annual Giving                                                           |                                         |                                   |                       |                      |                                   |                       |                      |
|-------------------------------------------------------------------------|-----------------------------------------|-----------------------------------|-----------------------|----------------------|-----------------------------------|-----------------------|----------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                         | 2019<br>Annual Giving<br>x \$1000 | 2019<br>National Rank | 2019<br>Control Rank | 2018<br>Annual Giving<br>x \$1000 | 2018<br>National Rank | 2018<br>Control Rank |
| Public                                                                  | Oregon State University                 | 112,749                           | 80                    | 50                   | 109,726                           | 82                    | 51                   |
| Public                                                                  | Penn. State Univ. - Hershey Med. Ctr.   | 39,180                            | 176                   | 103                  | 53,311                            | 139                   | 84                   |
| Public                                                                  | Pennsylvania State Univ. - Univ. Park   | 153,738                           | 55                    | 28                   | 205,747                           | 41                    | 21                   |
| Private                                                                 | Princeton University                    | 326,263                           | 27                    | 17                   | 269,924                           | 32                    | 17                   |
| Public                                                                  | Purdue University - West Lafayette      | 190,858                           | 44                    | 22                   | 192,303                           | 44                    | 24                   |
| Private                                                                 | Rensselaer Polytechnic Institute        | 57,776                            | 132                   | 50                   | 45,185                            | 152                   | 61                   |
| Private                                                                 | Rice University                         | 160,405                           | 52                    | 26                   | 114,496                           | 77                    | 29                   |
| Private                                                                 | Rockefeller University                  | 101,644                           | 90                    | 34                   | 70,811                            | 117                   | 45                   |
| Private                                                                 | Rush University                         | 11,352                            | 403                   | 207                  | 16,534                            | 318                   | 154                  |
| Public                                                                  | Rutgers University - New Brunswick      | 152,940                           | 56                    | 29                   | 159,477                           | 54                    | 31                   |
| Private                                                                 | Scripps Research Institute              |                                   |                       |                      |                                   |                       |                      |
| Private                                                                 | Stanford University                     | 1,112,229                         | 3                     | 3                    | 1,097,061                         | 2                     | 2                    |
| Public                                                                  | St. Univ. of NY - Polytechnic Institute | 568                               | 901                   | 464                  | 342                               | 933                   | 478                  |
| Public                                                                  | Stony Brook University                  | 68,501                            | 118                   | 73                   | 52,223                            | 142                   | 85                   |
| Public                                                                  | Temple University                       | 66,149                            | 121                   | 75                   | 76,685                            | 111                   | 69                   |
| Public                                                                  | Texas A&M Univ. - College Station       | 287,998                           | 31                    | 13                   | 305,657                           | 26                    | 11                   |
| Private                                                                 | Thomas Jefferson University             | 93,490                            | 99                    | 38                   | 56,281                            | 133                   | 53                   |
| Private                                                                 | Tufts University                        | 85,612                            | 106                   | 41                   | 70,564                            | 118                   | 46                   |
| Private                                                                 | Tulane University                       | 109,091                           | 85                    | 33                   | 103,705                           | 88                    | 33                   |
| Public                                                                  | Uniformed Services Univ. of the HS      |                                   |                       |                      |                                   |                       |                      |
| Public                                                                  | University at Albany                    | 9,660                             | 448                   | 211                  | 9,161                             | 473                   | 215                  |
| Public                                                                  | University at Buffalo                   | 58,842                            | 130                   | 81                   | 55,829                            | 135                   | 82                   |
| Public                                                                  | University of Alabama - Birmingham      | 90,237                            | 101                   | 63                   | 78,934                            | 107                   | 66                   |
| Public                                                                  | University of Alabama - Huntsville      | 1,949                             | 799                   | 377                  | 2,851                             | 761                   | 335                  |
| Public                                                                  | University of Alaska - Fairbanks        | 36,720                            | 184                   | 109                  | 35,317                            | 189                   | 108                  |
| Public                                                                  | University of Arizona                   | 244,738                           | 37                    | 18                   | 277,938                           | 28                    | 13                   |
| Public                                                                  | University of Arkansas - Fayetteville   | 136,604                           | 65                    | 37                   | 221,916                           | 39                    | 19                   |
| Public                                                                  | Univ. of Arkansas for Med. Sciences     | 19,840                            | 281                   | 145                  | 19,908                            | 268                   | 139                  |
| Public                                                                  | University of California - Berkeley     | 550,602                           | 12                    | 4                    | 419,366                           | 18                    | 6                    |
| Public                                                                  | University of California - Davis        | 182,539                           | 46                    | 24                   | 172,062                           | 49                    | 26                   |
| Public                                                                  | University of California - Irvine       | 115,600                           | 77                    | 48                   | 203,370                           | 42                    | 22                   |
| Public                                                                  | University of California - Los Angeles  | 733,013                           | 4                     | 1                    | 786,651                           | 4                     | 1                    |
| Public                                                                  | University of California - Riverside    | 23,776                            | 241                   | 133                  | 23,011                            | 249                   | 133                  |
| Public                                                                  | University of California - San Diego    | 289,034                           | 30                    | 12                   | 280,002                           | 27                    | 12                   |
| Public                                                                  | Univ. of California - San Francisco     | 622,751                           | 10                    | 3                    | 730,268                           | 5                     | 2                    |
| Public                                                                  | Univ. of California - Santa Barbara     | 182,898                           | 45                    | 23                   | 92,563                            | 96                    | 59                   |
| Public                                                                  | University of California - Santa Cruz   | 31,070                            | 200                   | 114                  | 38,038                            | 178                   | 102                  |
| Public                                                                  | University of Central Florida           | 56,841                            | 136                   | 84                   | 39,060                            | 169                   | 99                   |
| Private                                                                 | University of Chicago                   | 535,050                           | 13                    | 9                    | 576,038                           | 11                    | 8                    |
| Public                                                                  | University of Cincinnati - Cincinnati   | 115,042                           | 78                    | 49                   | 120,086                           | 74                    | 46                   |
| Public                                                                  | University of Colorado - Boulder        | 136,225                           | 67                    | 39                   | 148,257                           | 60                    | 35                   |
| Public                                                                  | U. of Colorado - Denver/Anschutz Med.   | 175,877                           | 48                    | 26                   | 167,184                           | 52                    | 29                   |
| Public                                                                  | University of Connecticut - Health Ctr. | 5,200                             | 612                   | 266                  | 5,218                             | 620                   | 266                  |
| Public                                                                  | University of Connecticut - Storrs      | 55,552                            | 139                   | 85                   | 49,705                            | 144                   | 86                   |
| Private                                                                 | University of Dayton                    | 27,671                            | 218                   | 99                   | 34,768                            | 195                   | 85                   |
| Public                                                                  | University of Delaware                  | 64,419                            | 123                   | 77                   | 48,165                            | 147                   | 88                   |
| Public                                                                  | University of Florida                   | 289,665                           | 29                    | 11                   | 339,867                           | 25                    | 10                   |
| Public                                                                  | University of Georgia                   | 142,504                           | 62                    | 34                   | 170,352                           | 50                    | 27                   |
| Public                                                                  | University of Hawaii - Manoa            | 45,942                            | 162                   | 97                   | 42,970                            | 155                   | 93                   |

# The Top American Research Universities

| 2017<br>Annual<br>Giving<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Annual<br>Giving<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Annual<br>Giving<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|--------------------------------------|--------------------------|-------------------------|--------------------------------------|--------------------------|-------------------------|--------------------------------------|--------------------------|-------------------------|
| 92,755                               | 94                       | 57                      | 97,101                               | 85                       | 51                      | 99,318                               | 87                       | 52                      |
| 34,781                               | 184                      | 105                     | 35,472                               | 173                      | 99                      | 35,023                               | 171                      | 100                     |
| 148,864                              | 55                       | 31                      | 147,570                              | 56                       | 31                      | 155,658                              | 50                       | 26                      |
| 303,394                              | 24                       | 15                      | 267,876                              | 27                       | 16                      | 549,840                              | 7                        | 6                       |
| 152,638                              | 53                       | 29                      | 151,217                              | 53                       | 28                      | 172,219                              | 44                       | 22                      |
| 46,571                               | 148                      | 59                      | 37,798                               | 167                      | 72                      | 38,364                               | 164                      | 68                      |
| 98,158                               | 88                       | 34                      | 102,977                              | 76                       | 31                      | 122,186                              | 67                       | 30                      |
| 18,357                               | 278                      | 136                     | 67,659                               | 115                      | 41                      | 18,562                               | 262                      | 133                     |
| 6,375                                | 554                      | 312                     | 3,070                                | 727                      | 424                     | 3,689                                | 681                      | 402                     |
| 113,555                              | 75                       | 46                      | 118,493                              | 69                       | 41                      | 127,846                              | 63                       | 34                      |
|                                      |                          |                         |                                      |                          |                         |                                      |                          |                         |
| 1,129,330                            | 2                        | 2                       | 951,149                              | 2                        | 2                       | 1,625,036                            | 1                        | 1                       |
| 1,028                                | 927                      | 432                     | 0                                    | 978                      | 499                     | 549                                  | 920                      | 446                     |
| 53,224                               | 135                      | 84                      | 76,704                               | 101                      | 63                      | 86,687                               | 98                       | 59                      |
| 67,339                               | 118                      | 72                      | 62,254                               | 119                      | 77                      | 58,792                               | 124                      | 77                      |
| 290,458                              | 25                       | 10                      | 276,475                              | 25                       | 11                      | 255,179                              | 26                       | 11                      |
| 52,137                               | 140                      | 53                      | 56,821                               | 133                      | 50                      | 38,809                               | 162                      | 67                      |
| 103,248                              | 82                       | 31                      | 60,405                               | 124                      | 45                      | 62,131                               | 118                      | 43                      |
| 86,033                               | 100                      | 39                      | 98,919                               | 81                       | 33                      | 88,422                               | 96                       | 39                      |
|                                      |                          |                         |                                      |                          |                         |                                      |                          |                         |
| 11,409                               | 401                      | 195                     | 9,122                                | 432                      | 200                     | 9,439                                | 419                      | 191                     |
| 36,919                               | 179                      | 104                     | 36,219                               | 170                      | 97                      | 30,565                               | 184                      | 105                     |
| 81,250                               | 108                      | 67                      | 88,043                               | 95                       | 59                      | 76,612                               | 106                      | 65                      |
| 2,884                                | 785                      | 337                     | 2,297                                | 792                      | 342                     | 2,032                                | 803                      | 348                     |
| 24,561                               | 234                      | 121                     | 27,865                               | 201                      | 112                     | 26,959                               | 195                      | 107                     |
| 219,929                              | 36                       | 17                      | 186,870                              | 40                       | 20                      | 190,184                              | 36                       | 16                      |
| 83,555                               | 105                      | 65                      | 76,693                               | 102                      | 64                      | 97,619                               | 90                       | 54                      |
| 20,958                               | 256                      | 132                     | 24,655                               | 220                      | 119                     | 16,815                               | 273                      | 134                     |
| 404,588                              | 18                       | 5                       | 348,865                              | 20                       | 6                       | 366,116                              | 20                       | 5                       |
| 163,088                              | 49                       | 27                      | 129,224                              | 65                       | 39                      | 185,840                              | 38                       | 17                      |
| 97,056                               | 92                       | 56                      | 73,657                               | 106                      | 67                      | 66,617                               | 114                      | 72                      |
| 550,934                              | 13                       | 2                       | 498,800                              | 11                       | 3                       | 473,205                              | 10                       | 2                       |
| 25,586                               | 227                      | 117                     | 24,369                               | 224                      | 120                     | 16,985                               | 272                      | 133                     |
| 240,076                              | 33                       | 16                      | 206,873                              | 35                       | 16                      | 171,059                              | 46                       | 24                      |
| 422,172                              | 17                       | 4                       | 595,940                              | 5                        | 1                       | 608,580                              | 4                        | 1                       |
| 145,824                              | 57                       | 33                      | 101,177                              | 78                       | 46                      | 63,413                               | 116                      | 74                      |
| 38,313                               | 172                      | 99                      | 69,052                               | 112                      | 72                      | 24,831                               | 202                      | 109                     |
| 33,043                               | 188                      | 107                     | 22,427                               | 237                      | 128                     | 32,779                               | 176                      | 102                     |
| 483,470                              | 14                       | 12                      | 443,305                              | 13                       | 10                      | 443,792                              | 13                       | 10                      |
| 106,272                              | 77                       | 48                      | 162,076                              | 45                       | 24                      | 119,700                              | 71                       | 40                      |
| 134,126                              | 62                       | 36                      | 160,445                              | 46                       | 25                      | 151,553                              | 52                       | 27                      |
| 178,660                              | 43                       | 21                      | 106,963                              | 73                       | 44                      | 171,102                              | 45                       | 23                      |
| 4,748                                | 636                      | 267                     | 6,747                                | 519                      | 228                     | 8,475                                | 451                      | 202                     |
| 52,458                               | 137                      | 86                      | 65,620                               | 117                      | 76                      | 40,751                               | 156                      | 94                      |
| 37,840                               | 174                      | 74                      | 21,668                               | 246                      | 117                     | 28,219                               | 189                      | 84                      |
| 43,001                               | 156                      | 92                      | 56,843                               | 132                      | 83                      | 44,896                               | 147                      | 89                      |
| 267,350                              | 29                       | 13                      | 243,666                              | 30                       | 14                      | 215,580                              | 33                       | 14                      |
| 163,545                              | 48                       | 26                      | 133,881                              | 62                       | 36                      | 104,108                              | 84                       | 50                      |
| 49,665                               | 143                      | 88                      | 42,209                               | 157                      | 93                      | 90,650                               | 93                       | 56                      |

| Annual Giving                                                           |                                       |                                   |                       |                      |                                   |                       |                      |
|-------------------------------------------------------------------------|---------------------------------------|-----------------------------------|-----------------------|----------------------|-----------------------------------|-----------------------|----------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2019<br>Annual Giving<br>x \$1000 | 2019<br>National Rank | 2019<br>Control Rank | 2018<br>Annual Giving<br>x \$1000 | 2018<br>National Rank | 2018<br>Control Rank |
| Public                                                                  | University of Houston - Univ. Park    | 89,416                            | 104                   | 65                   | 98,061                            | 90                    | 57                   |
| Public                                                                  | University of Idaho                   | 30,747                            | 203                   | 115                  | 29,486                            | 215                   | 117                  |
| Public                                                                  | University of Illinois - Chicago      | 55,212                            | 140                   | 86                   | 57,134                            | 129                   | 78                   |
| Public                                                                  | Univ. of Illinois - Urbana-Champaign  | 215,212                           | 42                    | 20                   | 233,316                           | 38                    | 18                   |
| Public                                                                  | University of Iowa                    | 144,574                           | 61                    | 33                   | 135,616                           | 65                    | 39                   |
| Public                                                                  | University of Kansas - Lawrence       | 208,245                           | 43                    | 21                   | 146,788                           | 62                    | 37                   |
| Public                                                                  | University of Kansas Medical Center   | 49,740                            | 151                   | 91                   | 39,019                            | 170                   | 100                  |
| Public                                                                  | University of Kentucky                | 130,982                           | 69                    | 41                   | 149,327                           | 57                    | 32                   |
| Public                                                                  | University of Louisville              | 77,321                            | 112                   | 69                   | 79,121                            | 105                   | 64                   |
| Public                                                                  | University of Maine - Orono           | 28,374                            | 217                   | 119                  | 25,151                            | 231                   | 123                  |
| Public                                                                  | University of Maryland - Baltimore    | 75,305                            | 114                   | 70                   | 57,074                            | 130                   | 79                   |
| Public                                                                  | Univ. of Maryland - Baltimore County  | 15,739                            | 327                   | 165                  | 14,756                            | 351                   | 176                  |
| Public                                                                  | University of Maryland - College Park | 152,798                           | 57                    | 30                   | 124,853                           | 69                    | 43                   |
| Public                                                                  | Univ. of Massachusetts - Amherst      | 41,175                            | 171                   | 101                  | 40,530                            | 166                   | 98                   |
| Public                                                                  | Univ. of Mass. Med. Sch. - Worcester  | 35,709                            | 189                   | 111                  | 35,953                            | 185                   | 106                  |
| Private                                                                 | University of Miami                   | 294,135                           | 28                    | 18                   | 180,100                           | 46                    | 21                   |
| Public                                                                  | University of Michigan - Ann Arbor    | 500,987                           | 17                    | 5                    | 490,035                           | 15                    | 4                    |
| Public                                                                  | University of Minnesota - Twin Cities | 373,210                           | 24                    | 9                    | 367,442                           | 22                    | 8                    |
| Public                                                                  | University of Missouri - Columbia     | 100,290                           | 91                    | 57                   | 147,709                           | 61                    | 36                   |
| Public                                                                  | University of Montana - Missoula      | 46,711                            | 157                   | 94                   | 41,397                            | 161                   | 96                   |
| Public                                                                  | University of Nebraska - Lincoln      | 107,651                           | 86                    | 53                   | 117,989                           | 75                    | 47                   |
| Public                                                                  | Univ. of Nebraska Medical Center      | 117,117                           | 76                    | 47                   | 96,300                            | 92                    | 58                   |
| Public                                                                  | University of Nevada - Reno           | 46,212                            | 160                   | 96                   | 43,455                            | 154                   | 92                   |
| Public                                                                  | Univ. of New Hampshire - Durham       | 25,989                            | 224                   | 124                  | 25,000                            | 232                   | 124                  |
| Public                                                                  | Univ. of New Mexico - Albuquerque     | 60,157                            | 127                   | 79                   | 75,639                            | 113                   | 70                   |
| Public                                                                  | Univ. of North Carolina - Chapel Hill | 412,669                           | 20                    | 7                    | 374,534                           | 21                    | 7                    |
| Public                                                                  | University of North Dakota            | 26,644                            | 222                   | 122                  | 24,385                            | 237                   | 126                  |
| Private                                                                 | University of Notre Dame              | 444,877                           | 18                    | 13                   | 502,771                           | 13                    | 10                   |
| Public                                                                  | University of Oklahoma - HSC          | 17,174                            | 309                   | 160                  | 11,922                            | 412                   | 196                  |
| Public                                                                  | University of Oklahoma - Norman       | 119,126                           | 74                    | 46                   | 107,297                           | 84                    | 53                   |
| Public                                                                  | University of Oregon                  | 279,154                           | 35                    | 16                   | 193,186                           | 43                    | 23                   |
| Private                                                                 | University of Pennsylvania            | 626,235                           | 9                     | 7                    | 717,529                           | 7                     | 5                    |
| Public                                                                  | University of Pittsburgh - Pittsburgh | 142,451                           | 63                    | 35                   | 130,049                           | 67                    | 41                   |
| Public                                                                  | University of Rhode Island            | 30,709                            | 205                   | 117                  | 24,189                            | 238                   | 127                  |
| Private                                                                 | University of Rochester               | 117,629                           | 75                    | 29                   | 113,327                           | 78                    | 30                   |
| Public                                                                  | Univ. of South Carolina - Columbia    | 104,246                           | 88                    | 55                   | 110,419                           | 80                    | 49                   |
| Public                                                                  | University of South Florida - Tampa   | 65,533                            | 122                   | 76                   | 56,208                            | 134                   | 81                   |
| Private                                                                 | University of Southern California     | 687,363                           | 6                     | 4                    | 649,971                           | 9                     | 6                    |
| Public                                                                  | University of Tennessee - Knoxville   | 109,536                           | 84                    | 52                   | 103,170                           | 89                    | 56                   |
| Public                                                                  | University of Texas - Austin          | 423,913                           | 19                    | 6                    | 357,950                           | 23                    | 9                    |
| Public                                                                  | University of Texas - El Paso         | 13,176                            | 372                   | 186                  | 18,544                            | 291                   | 149                  |
| Public                                                                  | University of Texas HSC - Houston     | 58,347                            | 131                   | 82                   | 56,482                            | 131                   | 80                   |
| Public                                                                  | Univ. of Texas HSC - San Antonio      | 68,798                            | 117                   | 72                   | 42,085                            | 158                   | 94                   |
| Public                                                                  | U. of Texas MD Anderson Cancer Ctr.   | 137,227                           | 64                    | 36                   | 148,283                           | 59                    | 34                   |
| Public                                                                  | U. of Texas Med. Branch - Galveston   | 60,679                            | 126                   | 78                   | 69,410                            | 119                   | 73                   |
| Public                                                                  | Univ. of Texas SW Med. Ctr. - Dallas  | 147,421                           | 60                    | 32                   | 115,719                           | 76                    | 48                   |
| Public                                                                  | University of Utah                    | 279,746                           | 34                    | 15                   | 234,016                           | 36                    | 17                   |
| Public                                                                  | University of Vermont                 | 45,710                            | 163                   | 98                   | 41,776                            | 160                   | 95                   |
| Public                                                                  | University of Virginia                | 342,867                           | 26                    | 10                   | 275,712                           | 29                    | 14                   |

## The Top American Research Universities

| 2017<br>Annual Giving<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Annual Giving<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Annual Giving<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|-----------------------------------|--------------------------|-------------------------|-----------------------------------|--------------------------|-------------------------|-----------------------------------|--------------------------|-------------------------|
| 109,231                           | 76                       | 47                      | 98,449                            | 83                       | 50                      | 95,602                            | 91                       | 55                      |
| 22,343                            | 244                      | 128                     | 16,842                            | 305                      | 154                     | 19,358                            | 254                      | 126                     |
| 56,597                            | 131                      | 82                      | 53,815                            | 137                      | 85                      | 62,590                            | 117                      | 75                      |
| 198,897                           | 40                       | 19                      | 159,693                           | 47                       | 26                      | 177,235                           | 40                       | 19                      |
| 137,193                           | 61                       | 35                      | 192,262                           | 39                       | 19                      | 159,532                           | 48                       | 25                      |
| 137,330                           | 60                       | 34                      | 149,771                           | 54                       | 29                      | 176,704                           | 42                       | 21                      |
| 34,333                            | 185                      | 106                     | 37,443                            | 168                      | 96                      | 44,176                            | 148                      | 90                      |
| 119,920                           | 70                       | 42                      | 163,919                           | 44                       | 23                      | 118,190                           | 74                       | 43                      |
| 90,820                            | 95                       | 58                      | 85,186                            | 97                       | 60                      | 86,309                            | 100                      | 61                      |
| 18,118                            | 282                      | 143                     | 19,362                            | 263                      | 134                     | 21,682                            | 221                      | 115                     |
| 62,651                            | 126                      | 78                      | 57,911                            | 129                      | 82                      | 69,153                            | 109                      | 67                      |
| 12,258                            | 382                      | 188                     | 13,788                            | 340                      | 167                     | 7,663                             | 476                      | 212                     |
| 115,151                           | 73                       | 45                      | 146,044                           | 57                       | 32                      | 122,694                           | 66                       | 37                      |
| 63,084                            | 124                      | 76                      | 32,805                            | 183                      | 106                     | 35,327                            | 170                      | 99                      |
| 6,413                             | 550                      | 242                     | 7,550                             | 487                      | 216                     | 8,328                             | 458                      | 204                     |
| 221,706                           | 35                       | 19                      | 236,334                           | 31                       | 17                      | 193,809                           | 35                       | 20                      |
| 456,132                           | 15                       | 3                       | 433,776                           | 14                       | 4                       | 394,310                           | 18                       | 4                       |
| 326,158                           | 21                       | 7                       | 332,851                           | 22                       | 8                       | 344,303                           | 22                       | 7                       |
| 119,526                           | 71                       | 43                      | 113,079                           | 71                       | 43                      | 108,689                           | 79                       | 46                      |
| 30,737                            | 199                      | 112                     | 25,987                            | 210                      | 115                     | 31,417                            | 179                      | 104                     |
| 104,678                           | 80                       | 50                      | 100,542                           | 79                       | 47                      | 177,321                           | 39                       | 18                      |
| 106,010                           | 78                       | 49                      | 91,702                            | 89                       | 55                      | 89,054                            | 94                       | 57                      |
| 57,084                            | 130                      | 81                      | 69,521                            | 109                      | 69                      | 100,048                           | 85                       | 51                      |
| 24,510                            | 235                      | 122                     | 14,372                            | 332                      | 163                     | 9,605                             | 413                      | 188                     |
| 90,227                            | 96                       | 59                      | 66,077                            | 116                      | 75                      | 68,992                            | 110                      | 68                      |
| 325,932                           | 22                       | 8                       | 308,694                           | 24                       | 10                      | 301,177                           | 25                       | 10                      |
| 31,447                            | 195                      | 109                     | 27,965                            | 198                      | 111                     | 9,284                             | 427                      | 194                     |
| 451,433                           | 16                       | 13                      | 371,762                           | 19                       | 14                      | 379,869                           | 19                       | 15                      |
| 42,763                            | 157                      | 93                      | 69,440                            | 110                      | 70                      | 64,872                            | 115                      | 73                      |
| 260,220                           | 30                       | 14                      | 252,996                           | 28                       | 12                      | 252,475                           | 27                       | 12                      |
| 177,447                           | 44                       | 22                      | 136,295                           | 61                       | 35                      | 145,109                           | 54                       | 29                      |
| 626,485                           | 6                        | 6                       | 542,851                           | 7                        | 6                       | 517,198                           | 9                        | 8                       |
| 121,564                           | 68                       | 40                      | 127,155                           | 66                       | 40                      | 124,602                           | 65                       | 36                      |
| 21,435                            | 250                      | 131                     | 15,788                            | 318                      | 159                     | 17,563                            | 267                      | 131                     |
| 97,233                            | 91                       | 36                      | 107,297                           | 72                       | 29                      | 108,217                           | 80                       | 34                      |
| 174,208                           | 47                       | 25                      | 94,103                            | 87                       | 53                      | 113,506                           | 76                       | 44                      |
| 52,986                            | 136                      | 85                      | 45,583                            | 152                      | 89                      | 59,903                            | 121                      | 76                      |
| 668,332                           | 4                        | 4                       | 666,641                           | 3                        | 3                       | 653,025                           | 3                        | 3                       |
| 98,124                            | 89                       | 55                      | 91,456                            | 90                       | 56                      | 119,749                           | 70                       | 39                      |
| 304,294                           | 23                       | 9                       | 345,992                           | 21                       | 7                       | 310,212                           | 24                       | 9                       |
| 17,592                            | 290                      | 149                     | 19,194                            | 265                      | 135                     | 16,668                            | 279                      | 140                     |
| 53,566                            | 134                      | 83                      | 55,453                            | 135                      | 84                      | 46,346                            | 144                      | 87                      |
| 65,776                            | 121                      | 75                      | 40,458                            | 160                      | 94                      | 42,764                            | 151                      | 91                      |
| 149,750                           | 54                       | 30                      | 208,482                           | 33                       | 15                      | 176,908                           | 41                       | 20                      |
| 40,071                            | 166                      | 96                      | 44,659                            | 153                      | 90                      | 41,039                            | 155                      | 93                      |
| 121,379                           | 69                       | 41                      | 181,153                           | 42                       | 21                      | 149,243                           | 53                       | 28                      |
| 153,527                           | 52                       | 28                      | 201,854                           | 36                       | 17                      | 126,244                           | 64                       | 35                      |
| 41,020                            | 163                      | 95                      | 61,407                            | 121                      | 78                      | 40,458                            | 157                      | 95                      |
| 268,407                           | 28                       | 12                      | 245,392                           | 29                       | 13                      | 233,218                           | 30                       | 13                      |

| Annual Giving                                                           |                                       |                                      |                          |                         |                                      |                          |                         |
|-------------------------------------------------------------------------|---------------------------------------|--------------------------------------|--------------------------|-------------------------|--------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2019<br>Annual<br>Giving<br>x \$1000 | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>Annual<br>Giving<br>x \$1000 | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                  | University of Washington - Seattle    | 711,063                              | 5                        | 2                       | 681,053                              | 8                        | 3                       |
| Public                                                                  | University of Wisconsin - Madison     | 284,393                              | 32                       | 14                      | 274,966                              | 30                       | 15                      |
| Public                                                                  | University of Wyoming                 | 36,632                               | 185                      | 110                     | 47,933                               | 148                      | 89                      |
| Public                                                                  | Utah State University                 | 37,242                               | 182                      | 107                     | 29,318                               | 216                      | 118                     |
| Private                                                                 | Vanderbilt University                 | 226,809                              | 41                       | 22                      | 173,651                              | 48                       | 23                      |
| Public                                                                  | Virginia Commonwealth University      | 82,365                               | 109                      | 67                      | 71,054                               | 116                      | 72                      |
| Public                                                                  | Virginia Polytechnic Inst. and St. U. | 119,795                              | 73                       | 45                      | 132,907                              | 66                       | 40                      |
| Private                                                                 | Wake Forest University                | 110,854                              | 83                       | 32                      | 178,098                              | 47                       | 22                      |
| Public                                                                  | Washington State Univ. - Pullman      | 98,680                               | 93                       | 58                      | 85,128                               | 101                      | 61                      |
| Private                                                                 | Washington University in St. Louis    | 406,133                              | 22                       | 14                      | 346,973                              | 24                       | 15                      |
| Public                                                                  | Wayne State University                | 50,499                               | 150                      | 90                      | 77,076                               | 110                      | 68                      |
| Private                                                                 | Weill Cornell Medical College         | 75,234                               | 115                      | 45                      | 96,386                               | 91                       | 34                      |
| Public                                                                  | West Virginia University              | 122,060                              | 72                       | 44                      | 108,376                              | 83                       | 52                      |
| Private                                                                 | Woods Hole Oceanographic Inst.        |                                      |                          |                         |                                      |                          |                         |
| Public                                                                  | Wright State University - Dayton      | 6,360                                | 555                      | 244                     | 9,078                                | 475                      | 216                     |
| Private                                                                 | Yale University                       | 657,109                              | 8                        | 6                       | 585,947                              | 10                       | 7                       |
| Private                                                                 | Yeshiva University                    | 31,379                               | 198                      | 85                      | 33,176                               | 206                      | 93                      |

| 2017<br>Annual<br>Giving<br>x \$1000 | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Annual<br>Giving<br>x \$1000 | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Annual<br>Giving<br>x \$1000 | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|--------------------------------------|--------------------------|-------------------------|--------------------------------------|--------------------------|-------------------------|--------------------------------------|--------------------------|-------------------------|
| 553,891                              | 12                       | 1                       | 541,444                              | 8                        | 2                       | 447,021                              | 12                       | 3                       |
| 258,645                              | 31                       | 15                      | 318,828                              | 23                       | 9                       | 330,454                              | 23                       | 8                       |
| 37,130                               | 178                      | 103                     | 49,374                               | 141                      | 86                      | 48,390                               | 140                      | 83                      |
| 38,751                               | 168                      | 98                      | 34,359                               | 180                      | 104                     | 52,076                               | 130                      | 81                      |
| 193,581                              | 41                       | 22                      | 143,605                              | 58                       | 26                      | 121,909                              | 69                       | 31                      |
| 57,270                               | 129                      | 80                      | 69,180                               | 111                      | 71                      | 67,256                               | 113                      | 71                      |
| 122,042                              | 65                       | 37                      | 100,057                              | 80                       | 48                      | 86,391                               | 99                       | 60                      |
| 105,164                              | 79                       | 30                      | 88,787                               | 94                       | 36                      | 99,763                               | 86                       | 35                      |
| 82,555                               | 107                      | 66                      | 103,845                              | 75                       | 45                      | 106,370                              | 81                       | 47                      |
| 281,491                              | 26                       | 16                      | 269,877                              | 26                       | 15                      | 246,714                              | 29                       | 17                      |
| 77,544                               | 111                      | 69                      | 60,708                               | 123                      | 79                      | 47,983                               | 141                      | 84                      |
| 122,348                              | 64                       | 28                      | 85,207                               | 96                       | 37                      | 156,176                              | 49                       | 24                      |
| 100,497                              | 83                       | 52                      | 74,882                               | 105                      | 66                      | 110,384                              | 77                       | 45                      |
|                                      |                          |                         |                                      |                          |                         |                                      |                          |                         |
| 7,697                                | 505                      | 229                     | 17,658                               | 286                      | 145                     | 7,164                                | 496                      | 219                     |
| 595,886                              | 9                        | 9                       | 519,146                              | 9                        | 7                       | 440,807                              | 14                       | 11                      |
| 41,343                               | 161                      | 68                      | 39,298                               | 165                      | 71                      | 59,420                               | 123                      | 47                      |

| National Academy Membership                                             |                                        |                                           |                          |                         |                                           |                          |                         |
|-------------------------------------------------------------------------|----------------------------------------|-------------------------------------------|--------------------------|-------------------------|-------------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                        | 2019<br>National<br>Academy<br>Membership | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>National<br>Academy<br>Membership | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                  | Arizona State University               | 24                                        | 50                       | 27                      | 21                                        | 57                       | 30                      |
| Public                                                                  | Auburn University                      | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | Augusta University                     | 0                                         | 233                      | 145                     | 0                                         | 230                      | 142                     |
| Private                                                                 | Baylor College of Medicine             | 23                                        | 54                       | 25                      | 22                                        | 54                       | 27                      |
| Private                                                                 | Boston University                      | 21                                        | 59                       | 28                      | 20                                        | 59                       | 28                      |
| Private                                                                 | Brown University                       | 24                                        | 50                       | 24                      | 24                                        | 50                       | 24                      |
| Private                                                                 | California Institute of Technology     | 116                                       | 13                       | 9                       | 113                                       | 12                       | 8                       |
| Private                                                                 | Carnegie Mellon University             | 41                                        | 31                       | 18                      | 39                                        | 31                       | 18                      |
| Private                                                                 | Case Western Reserve University        | 20                                        | 60                       | 29                      | 20                                        | 59                       | 28                      |
| Public                                                                  | Clemson University                     | 3                                         | 124                      | 74                      | 2                                         | 139                      | 83                      |
| Public                                                                  | Cleveland State University             | 0                                         | 233                      | 145                     | 0                                         | 230                      | 142                     |
| Private                                                                 | Cold Spring Harbor Laboratory          | 6                                         | 99                       | 39                      | 5                                         | 105                      | 42                      |
| Public                                                                  | Colorado State Univ. - Fort Collins    | 10                                        | 78                       | 44                      | 9                                         | 82                       | 46                      |
| Private                                                                 | Columbia University                    | 144                                       | 5                        | 4                       | 141                                       | 5                        | 4                       |
| Private                                                                 | Cornell University                     | 69                                        | 19                       | 12                      | 64                                        | 20                       | 12                      |
| Private                                                                 | Dartmouth College                      | 15                                        | 63                       | 31                      | 14                                        | 67                       | 31                      |
| Private                                                                 | Drexel University                      | 6                                         | 99                       | 39                      | 7                                         | 95                       | 38                      |
| Private                                                                 | Duke University                        | 73                                        | 17                       | 11                      | 70                                        | 19                       | 11                      |
| Private                                                                 | Emory University                       | 33                                        | 39                       | 20                      | 33                                        | 37                       | 19                      |
| Public                                                                  | Florida International University       | 3                                         | 124                      | 74                      | 3                                         | 122                      | 74                      |
| Public                                                                  | Florida State University               | 8                                         | 90                       | 54                      | 8                                         | 87                       | 51                      |
| Public                                                                  | George Mason University                | 2                                         | 140                      | 84                      | 2                                         | 139                      | 83                      |
| Private                                                                 | George Washington University           | 10                                        | 78                       | 35                      | 11                                        | 73                       | 34                      |
| Private                                                                 | Georgetown University                  | 11                                        | 74                       | 34                      | 10                                        | 75                       | 35                      |
| Public                                                                  | Georgia Institute of Technology        | 35                                        | 34                       | 16                      | 34                                        | 35                       | 17                      |
| Public                                                                  | Georgia State University               | 0                                         | 233                      | 145                     | 0                                         | 230                      | 142                     |
| Private                                                                 | Harvard University                     | 428                                       | 1                        | 1                       | 408                                       | 1                        | 1                       |
| Private                                                                 | Icahn School of Med. at Mount Sinai    | 25                                        | 49                       | 23                      | 24                                        | 50                       | 24                      |
| Public                                                                  | Indiana University - Bloomington       | 16                                        | 62                       | 32                      | 15                                        | 64                       | 34                      |
| Public                                                                  | Iowa State University                  | 8                                         | 90                       | 54                      | 10                                        | 75                       | 41                      |
| Private                                                                 | Johns Hopkins University               | 120                                       | 10                       | 8                       | 112                                       | 13                       | 9                       |
| Public                                                                  | Kansas State University                | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | Louisiana State Univ. - Baton Rouge    | 3                                         | 124                      | 74                      | 3                                         | 122                      | 74                      |
| Private                                                                 | Massachusetts Inst. of Technology      | 283                                       | 3                        | 3                       | 276                                       | 3                        | 3                       |
| Private                                                                 | Medical College of Wisconsin           | 2                                         | 140                      | 57                      | 2                                         | 139                      | 57                      |
| Public                                                                  | Medical University of South Carolina   | 4                                         | 116                      | 70                      | 3                                         | 122                      | 74                      |
| Public                                                                  | Michigan State University              | 15                                        | 63                       | 33                      | 15                                        | 64                       | 34                      |
| Public                                                                  | Mississippi State University           | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | Montana State University - Bozeman     | 2                                         | 140                      | 84                      | 2                                         | 139                      | 83                      |
| Public                                                                  | Naval Postgraduate School              | 2                                         | 140                      | 84                      | 2                                         | 139                      | 83                      |
| Public                                                                  | New Jersey Institute of Technology     | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | New Mexico State Univ. - Las Cruces    | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Private                                                                 | New York University                    | 60                                        | 21                       | 13                      | 57                                        | 21                       | 13                      |
| Public                                                                  | North Carolina State University        | 24                                        | 50                       | 27                      | 24                                        | 50                       | 27                      |
| Private                                                                 | Northeastern University                | 5                                         | 107                      | 43                      | 5                                         | 105                      | 42                      |
| Private                                                                 | Northwestern University                | 53                                        | 23                       | 15                      | 49                                        | 26                       | 16                      |
| Public                                                                  | Ohio State University - Columbus       | 33                                        | 39                       | 20                      | 31                                        | 41                       | 21                      |
| Public                                                                  | Oklahoma State University - Stillwater | 3                                         | 124                      | 74                      | 3                                         | 122                      | 74                      |
| Public                                                                  | Oregon Health & Science University     | 13                                        | 69                       | 38                      | 10                                        | 75                       | 41                      |

# The Top American Research Universities

| 2017<br>National<br>Academy<br>Membership | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>National<br>Academy<br>Membership | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>National<br>Academy<br>Membership | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|-------------------------------------------|--------------------------|-------------------------|-------------------------------------------|--------------------------|-------------------------|-------------------------------------------|--------------------------|-------------------------|
| 22                                        | 56                       | 29                      | 22                                        | 53                       | 28                      | 22                                        | 55                       | 29                      |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 1                                         | 163                      | 100                     |
| 0                                         | 228                      | 141                     | 0                                         | 224                      | 138                     | 0                                         | 221                      | 136                     |
| 25                                        | 49                       | 24                      | 25                                        | 50                       | 24                      | 24                                        | 50                       | 24                      |
| 19                                        | 61                       | 30                      | 19                                        | 61                       | 30                      | 20                                        | 58                       | 28                      |
| 23                                        | 52                       | 26                      | 21                                        | 56                       | 28                      | 22                                        | 55                       | 27                      |
| 114                                       | 12                       | 8                       | 114                                       | 11                       | 8                       | 112                                       | 12                       | 8                       |
| 44                                        | 29                       | 18                      | 43                                        | 28                       | 17                      | 39                                        | 31                       | 18                      |
| 22                                        | 56                       | 28                      | 22                                        | 53                       | 26                      | 20                                        | 58                       | 28                      |
| 2                                         | 137                      | 83                      | 2                                         | 136                      | 81                      | 2                                         | 142                      | 87                      |
| 0                                         | 228                      | 141                     | 0                                         | 224                      | 138                     | 0                                         | 221                      | 136                     |
| 6                                         | 100                      | 42                      | 5                                         | 103                      | 42                      | 5                                         | 104                      | 43                      |
| 8                                         | 86                       | 49                      | 8                                         | 87                       | 50                      | 9                                         | 77                       | 41                      |
| 133                                       | 6                        | 4                       | 136                                       | 5                        | 4                       | 134                                       | 6                        | 4                       |
| 63                                        | 20                       | 12                      | 63                                        | 20                       | 12                      | 62                                        | 20                       | 12                      |
| 16                                        | 62                       | 31                      | 16                                        | 62                       | 31                      | 15                                        | 62                       | 31                      |
| 8                                         | 86                       | 38                      | 8                                         | 87                       | 38                      | 7                                         | 92                       | 39                      |
| 70                                        | 17                       | 10                      | 67                                        | 19                       | 11                      | 66                                        | 19                       | 11                      |
| 33                                        | 35                       | 19                      | 31                                        | 38                       | 20                      | 32                                        | 35                       | 20                      |
| 2                                         | 137                      | 83                      | 2                                         | 136                      | 81                      | 1                                         | 163                      | 100                     |
| 8                                         | 86                       | 49                      | 8                                         | 87                       | 50                      | 7                                         | 92                       | 54                      |
| 2                                         | 137                      | 83                      | 2                                         | 136                      | 81                      | 2                                         | 142                      | 87                      |
| 11                                        | 72                       | 34                      | 11                                        | 71                       | 35                      | 12                                        | 68                       | 33                      |
| 10                                        | 75                       | 37                      | 9                                         | 78                       | 37                      | 9                                         | 77                       | 37                      |
| 31                                        | 39                       | 19                      | 31                                        | 38                       | 19                      | 31                                        | 38                       | 18                      |
| 0                                         | 228                      | 141                     | 0                                         | 224                      | 138                     | 0                                         | 221                      | 136                     |
| 401                                       | 1                        | 1                       | 382                                       | 1                        | 1                       | 371                                       | 1                        | 1                       |
| 23                                        | 52                       | 26                      | 20                                        | 59                       | 29                      | 17                                        | 61                       | 30                      |
| 15                                        | 64                       | 33                      | 13                                        | 67                       | 36                      | 8                                         | 84                       | 47                      |
| 10                                        | 75                       | 39                      | 9                                         | 78                       | 42                      | 8                                         | 84                       | 47                      |
| 107                                       | 14                       | 9                       | 101                                       | 14                       | 9                       | 97                                        | 15                       | 9                       |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 1                                         | 163                      | 100                     |
| 3                                         | 120                      | 74                      | 2                                         | 136                      | 81                      | 3                                         | 119                      | 73                      |
| 271                                       | 3                        | 3                       | 267                                       | 3                        | 3                       | 268                                       | 3                        | 3                       |
| 3                                         | 120                      | 47                      | 3                                         | 120                      | 48                      | 3                                         | 119                      | 47                      |
| 3                                         | 120                      | 74                      | 2                                         | 136                      | 81                      | 3                                         | 119                      | 73                      |
| 15                                        | 64                       | 33                      | 14                                        | 63                       | 32                      | 13                                        | 65                       | 34                      |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 1                                         | 163                      | 100                     |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 0                                         | 221                      | 136                     |
| 3                                         | 120                      | 74                      | 3                                         | 120                      | 73                      | 3                                         | 119                      | 73                      |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 1                                         | 163                      | 100                     |
| 0                                         | 228                      | 141                     | 0                                         | 224                      | 138                     | 0                                         | 221                      | 136                     |
| 58                                        | 21                       | 13                      | 56                                        | 22                       | 13                      | 59                                        | 21                       | 13                      |
| 22                                        | 56                       | 29                      | 21                                        | 56                       | 29                      | 20                                        | 58                       | 31                      |
| 3                                         | 120                      | 47                      | 3                                         | 120                      | 48                      | 3                                         | 119                      | 47                      |
| 45                                        | 28                       | 17                      | 42                                        | 29                       | 18                      | 43                                        | 28                       | 17                      |
| 32                                        | 36                       | 17                      | 33                                        | 35                       | 16                      | 32                                        | 35                       | 16                      |
| 3                                         | 120                      | 74                      | 3                                         | 120                      | 73                      | 3                                         | 119                      | 73                      |
| 10                                        | 75                       | 39                      | 10                                        | 74                       | 38                      | 10                                        | 73                       | 37                      |

| National Academy Membership                                             |                                        |                                           |                          |                         |                                           |                          |                         |
|-------------------------------------------------------------------------|----------------------------------------|-------------------------------------------|--------------------------|-------------------------|-------------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                        | 2019<br>National<br>Academy<br>Membership | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>National<br>Academy<br>Membership | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                  | Oregon State University                | 4                                         | 116                      | 70                      | 4                                         | 116                      | 70                      |
| Public                                                                  | Penn. State Univ. - Hershey Med. Ctr.  | 3                                         | 124                      | 74                      | 2                                         | 139                      | 83                      |
| Public                                                                  | Pennsylvania State Univ. - Univ. Park  | 30                                        | 42                       | 22                      | 27                                        | 47                       | 25                      |
| Private                                                                 | Princeton University                   | 124                                       | 9                        | 7                       | 126                                       | 9                        | 7                       |
| Public                                                                  | Purdue University - West Lafayette     | 28                                        | 45                       | 24                      | 28                                        | 44                       | 23                      |
| Private                                                                 | Rensselaer Polytechnic Institute       | 7                                         | 95                       | 38                      | 7                                         | 95                       | 38                      |
| Private                                                                 | Rice University                        | 22                                        | 56                       | 26                      | 24                                        | 50                       | 24                      |
| Private                                                                 | Rockefeller University                 | 51                                        | 25                       | 16                      | 52                                        | 24                       | 15                      |
| Private                                                                 | Rush University                        | 3                                         | 124                      | 51                      | 3                                         | 122                      | 49                      |
| Public                                                                  | Rutgers University - New Brunswick     | 38                                        | 32                       | 14                      | 35                                        | 33                       | 15                      |
| Private                                                                 | Scripps Research Institute             | 30                                        | 42                       | 21                      | 30                                        | 42                       | 21                      |
| Private                                                                 | Stanford University                    | 336                                       | 2                        | 2                       | 338                                       | 2                        | 2                       |
| Public                                                                  | State Univ. of NY - Polytechnic Inst.  | 0                                         | 233                      | 145                     | 0                                         | 230                      | 142                     |
| Public                                                                  | Stony Brook University                 | 14                                        | 66                       | 35                      | 14                                        | 67                       | 37                      |
| Public                                                                  | Temple University                      | 5                                         | 107                      | 65                      | 5                                         | 105                      | 64                      |
| Public                                                                  | Texas A&M Univ. - College Station      | 45                                        | 28                       | 12                      | 44                                        | 30                       | 13                      |
| Private                                                                 | Thomas Jefferson University            | 4                                         | 116                      | 47                      | 3                                         | 122                      | 49                      |
| Private                                                                 | Tufts University                       | 8                                         | 90                       | 37                      | 8                                         | 87                       | 37                      |
| Private                                                                 | Tulane University                      | 3                                         | 124                      | 51                      | 3                                         | 122                      | 49                      |
| Public                                                                  | Uniformed Services Univ. of the HS     | 3                                         | 124                      | 74                      | 3                                         | 122                      | 74                      |
| Public                                                                  | University at Albany                   | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | University at Buffalo                  | 7                                         | 95                       | 58                      | 8                                         | 87                       | 51                      |
| Public                                                                  | University of Alabama - Birmingham     | 8                                         | 90                       | 54                      | 7                                         | 95                       | 58                      |
| Public                                                                  | University of Alabama - Huntsville     | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | University of Alaska - Fairbanks       | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | University of Arizona                  | 32                                        | 41                       | 21                      | 32                                        | 40                       | 20                      |
| Public                                                                  | University of Arkansas - Fayetteville  | 4                                         | 116                      | 70                      | 4                                         | 116                      | 70                      |
| Public                                                                  | Univ. of Arkansas for Med. Sciences    | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | University of California - Berkeley    | 237                                       | 4                        | 1                       | 227                                       | 4                        | 1                       |
| Public                                                                  | University of California - Davis       | 48                                        | 27                       | 11                      | 48                                        | 27                       | 11                      |
| Public                                                                  | University of California - Irvine      | 35                                        | 34                       | 16                      | 34                                        | 35                       | 17                      |
| Public                                                                  | University of California - Los Angeles | 109                                       | 14                       | 5                       | 106                                       | 14                       | 5                       |
| Public                                                                  | University of California - Riverside   | 11                                        | 74                       | 41                      | 10                                        | 75                       | 41                      |
| Public                                                                  | University of California - San Diego   | 119                                       | 12                       | 4                       | 117                                       | 11                       | 4                       |
| Public                                                                  | Univ. of California - San Francisco    | 140                                       | 6                        | 2                       | 136                                       | 6                        | 2                       |
| Public                                                                  | Univ. of California - Santa Barbara    | 53                                        | 23                       | 9                       | 53                                        | 23                       | 9                       |
| Public                                                                  | University of California - Santa Cruz  | 12                                        | 71                       | 39                      | 10                                        | 75                       | 41                      |
| Public                                                                  | University of Central Florida          | 6                                         | 99                       | 61                      | 6                                         | 102                      | 61                      |
| Private                                                                 | University of Chicago                  | 75                                        | 16                       | 10                      | 72                                        | 17                       | 10                      |
| Public                                                                  | University of Cincinnati - Cincinnati  | 8                                         | 90                       | 54                      | 8                                         | 87                       | 51                      |
| Public                                                                  | University of Colorado - Boulder       | 34                                        | 37                       | 19                      | 33                                        | 37                       | 19                      |
| Public                                                                  | U. of Colorado - Denver/Anschutz Med.  | 14                                        | 66                       | 35                      | 16                                        | 62                       | 32                      |
| Public                                                                  | Univ. of Connecticut - Health Center   | 3                                         | 124                      | 74                      | 5                                         | 105                      | 64                      |
| Public                                                                  | University of Connecticut - Storrs     | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Private                                                                 | University of Dayton                   | 0                                         | 233                      | 89                      | 0                                         | 230                      | 89                      |
| Public                                                                  | University of Delaware                 | 9                                         | 83                       | 47                      | 9                                         | 82                       | 46                      |
| Public                                                                  | University of Florida                  | 27                                        | 46                       | 25                      | 28                                        | 44                       | 23                      |
| Public                                                                  | University of Georgia                  | 9                                         | 83                       | 47                      | 8                                         | 87                       | 51                      |
| Public                                                                  | University of Hawaii - Manoa           | 11                                        | 74                       | 41                      | 11                                        | 73                       | 40                      |

# The Top American Research Universities

| 2017<br>National<br>Academy<br>Membership | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>National<br>Academy<br>Membership | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>National<br>Academy<br>Membership | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|-------------------------------------------|--------------------------|-------------------------|-------------------------------------------|--------------------------|-------------------------|-------------------------------------------|--------------------------|-------------------------|
| 4                                         | 113                      | 70                      | 5                                         | 103                      | 62                      | 5                                         | 104                      | 62                      |
| 2                                         | 137                      | 83                      | 2                                         | 136                      | 81                      | 2                                         | 142                      | 87                      |
| 27                                        | 45                       | 23                      | 28                                        | 43                       | 23                      | 27                                        | 43                       | 22                      |
| 125                                       | 8                        | 6                       | 126                                       | 7                        | 5                       | 120                                       | 7                        | 5                       |
| 27                                        | 45                       | 23                      | 28                                        | 43                       | 23                      | 27                                        | 43                       | 22                      |
| 7                                         | 96                       | 39                      | 7                                         | 94                       | 39                      | 7                                         | 92                       | 39                      |
| 24                                        | 50                       | 25                      | 24                                        | 51                       | 25                      | 25                                        | 48                       | 23                      |
| 54                                        | 24                       | 14                      | 51                                        | 24                       | 14                      | 51                                        | 24                       | 14                      |
| 3                                         | 120                      | 47                      | 3                                         | 120                      | 48                      | 2                                         | 142                      | 56                      |
| 36                                        | 32                       | 14                      | 36                                        | 32                       | 14                      | 39                                        | 31                       | 14                      |
| 29                                        | 42                       | 21                      | 27                                        | 46                       | 22                      | 26                                        | 46                       | 22                      |
| 342                                       | 2                        | 2                       | 340                                       | 2                        | 2                       | 320                                       | 2                        | 2                       |
| 0                                         | 228                      | 141                     | 0                                         | 224                      | 138                     | 0                                         | 221                      | 136                     |
| 14                                        | 66                       | 35                      | 14                                        | 63                       | 32                      | 14                                        | 63                       | 32                      |
| 5                                         | 104                      | 62                      | 5                                         | 103                      | 62                      | 4                                         | 111                      | 68                      |
| 38                                        | 31                       | 13                      | 32                                        | 36                       | 17                      | 27                                        | 43                       | 22                      |
| 3                                         | 120                      | 47                      | 4                                         | 111                      | 44                      | 4                                         | 111                      | 44                      |
| 11                                        | 72                       | 34                      | 12                                        | 70                       | 34                      | 11                                        | 70                       | 34                      |
| 2                                         | 137                      | 55                      | 2                                         | 136                      | 56                      | 1                                         | 163                      | 64                      |
| 4                                         | 113                      | 70                      | 4                                         | 111                      | 68                      | 4                                         | 111                      | 68                      |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 2                                         | 142                      | 87                      |
| 7                                         | 96                       | 58                      | 8                                         | 87                       | 50                      | 8                                         | 84                       | 47                      |
| 8                                         | 86                       | 49                      | 7                                         | 94                       | 56                      | 8                                         | 84                       | 47                      |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 0                                         | 221                      | 136                     |
| 1                                         | 161                      | 97                      | 2                                         | 136                      | 81                      | 2                                         | 142                      | 87                      |
| 30                                        | 41                       | 21                      | 29                                        | 41                       | 21                      | 31                                        | 38                       | 18                      |
| 3                                         | 120                      | 74                      | 3                                         | 120                      | 73                      | 3                                         | 119                      | 73                      |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 1                                         | 163                      | 100                     |
| 227                                       | 4                        | 1                       | 230                                       | 4                        | 1                       | 230                                       | 4                        | 1                       |
| 47                                        | 26                       | 11                      | 46                                        | 27                       | 11                      | 45                                        | 27                       | 11                      |
| 31                                        | 39                       | 19                      | 30                                        | 40                       | 20                      | 31                                        | 38                       | 18                      |
| 102                                       | 15                       | 6                       | 100                                       | 15                       | 6                       | 101                                       | 14                       | 6                       |
| 8                                         | 86                       | 49                      | 9                                         | 78                       | 42                      | 8                                         | 84                       | 47                      |
| 118                                       | 9                        | 3                       | 119                                       | 8                        | 3                       | 117                                       | 8                        | 3                       |
| 134                                       | 5                        | 2                       | 133                                       | 6                        | 2                       | 135                                       | 5                        | 2                       |
| 56                                        | 22                       | 9                       | 58                                        | 21                       | 9                       | 56                                        | 22                       | 9                       |
| 10                                        | 75                       | 39                      | 9                                         | 78                       | 42                      | 10                                        | 73                       | 37                      |
| 5                                         | 104                      | 62                      | 1                                         | 162                      | 98                      | 1                                         | 163                      | 100                     |
| 70                                        | 17                       | 10                      | 70                                        | 17                       | 10                      | 69                                        | 17                       | 10                      |
| 8                                         | 86                       | 49                      | 8                                         | 87                       | 50                      | 8                                         | 84                       | 47                      |
| 32                                        | 36                       | 17                      | 29                                        | 41                       | 21                      | 30                                        | 41                       | 21                      |
| 14                                        | 66                       | 35                      | 14                                        | 63                       | 32                      | 14                                        | 63                       | 32                      |
| 5                                         | 104                      | 62                      | 4                                         | 111                      | 68                      | 4                                         | 111                      | 68                      |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 1                                         | 163                      | 100                     |
| 0                                         | 228                      | 88                      | 0                                         | 224                      | 87                      | 0                                         | 221                      | 86                      |
| 8                                         | 86                       | 49                      | 8                                         | 87                       | 50                      | 7                                         | 92                       | 54                      |
| 29                                        | 42                       | 22                      | 26                                        | 49                       | 26                      | 25                                        | 48                       | 26                      |
| 8                                         | 86                       | 49                      | 7                                         | 94                       | 56                      | 6                                         | 99                       | 58                      |
| 10                                        | 75                       | 39                      | 10                                        | 74                       | 38                      | 10                                        | 73                       | 37                      |

| National Academy Membership                                             |                                       |                                           |                          |                         |                                           |                          |                         |
|-------------------------------------------------------------------------|---------------------------------------|-------------------------------------------|--------------------------|-------------------------|-------------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2019<br>National<br>Academy<br>Membership | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>National<br>Academy<br>Membership | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                  | University of Houston - Univ. Park    | 15                                        | 63                       | 33                      | 15                                        | 64                       | 34                      |
| Public                                                                  | University of Idaho                   | 1                                         | 159                      | 97                      | 0                                         | 230                      | 142                     |
| Public                                                                  | University of Illinois - Chicago      | 6                                         | 99                       | 61                      | 6                                         | 102                      | 61                      |
| Public                                                                  | Univ. of Illinois - Urbana-Champaign  | 50                                        | 26                       | 10                      | 51                                        | 25                       | 10                      |
| Public                                                                  | University of Iowa                    | 23                                        | 54                       | 30                      | 22                                        | 54                       | 28                      |
| Public                                                                  | University of Kansas - Lawrence       | 5                                         | 107                      | 65                      | 5                                         | 105                      | 64                      |
| Public                                                                  | University of Kansas Medical Center   | 2                                         | 140                      | 84                      | 2                                         | 139                      | 83                      |
| Public                                                                  | University of Kentucky                | 2                                         | 140                      | 84                      | 2                                         | 139                      | 83                      |
| Public                                                                  | University of Louisville              | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | University of Maine - Orono           | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | University of Maryland - Baltimore    | 9                                         | 83                       | 47                      | 8                                         | 87                       | 51                      |
| Public                                                                  | Univ. of Maryland - Baltimore County  | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | University of Maryland - College Park | 27                                        | 46                       | 25                      | 22                                        | 54                       | 28                      |
| Public                                                                  | Univ. of Massachusetts - Amherst      | 9                                         | 83                       | 47                      | 8                                         | 87                       | 51                      |
| Public                                                                  | Univ. of Mass. Med. Sch. - Worcester  | 9                                         | 83                       | 47                      | 9                                         | 82                       | 46                      |
| Private                                                                 | University of Miami                   | 12                                        | 71                       | 33                      | 13                                        | 69                       | 32                      |
| Public                                                                  | University of Michigan - Ann Arbor    | 120                                       | 10                       | 3                       | 118                                       | 10                       | 3                       |
| Public                                                                  | University of Minnesota - Twin Cities | 45                                        | 28                       | 12                      | 45                                        | 28                       | 12                      |
| Public                                                                  | University of Missouri - Columbia     | 10                                        | 78                       | 44                      | 9                                         | 82                       | 46                      |
| Public                                                                  | University of Montana - Missoula      | 1                                         | 159                      | 97                      | 0                                         | 230                      | 142                     |
| Public                                                                  | University of Nebraska - Lincoln      | 1                                         | 159                      | 97                      | 2                                         | 139                      | 83                      |
| Public                                                                  | University of Nebraska Medical Ctr.   | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | University of Nevada - Reno           | 2                                         | 140                      | 84                      | 2                                         | 139                      | 83                      |
| Public                                                                  | Univ. of New Hampshire - Durham       | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | Univ. of New Mexico - Albuquerque     | 5                                         | 107                      | 65                      | 5                                         | 105                      | 64                      |
| Public                                                                  | Univ. of North Carolina - Chapel Hill | 38                                        | 32                       | 14                      | 37                                        | 32                       | 14                      |
| Public                                                                  | University of North Dakota            | 0                                         | 233                      | 145                     | 0                                         | 230                      | 142                     |
| Private                                                                 | University of Notre Dame              | 3                                         | 124                      | 51                      | 3                                         | 122                      | 49                      |
| Public                                                                  | University of Oklahoma - HSC          | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | University of Oklahoma - Norman       | 0                                         | 233                      | 145                     | 0                                         | 230                      | 142                     |
| Public                                                                  | University of Oregon                  | 11                                        | 74                       | 41                      | 12                                        | 72                       | 39                      |
| Private                                                                 | University of Pennsylvania            | 136                                       | 7                        | 5                       | 130                                       | 7                        | 5                       |
| Public                                                                  | University of Pittsburgh - Pittsburgh | 29                                        | 44                       | 23                      | 29                                        | 43                       | 22                      |
| Public                                                                  | University of Rhode Island            | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Private                                                                 | University of Rochester               | 19                                        | 61                       | 30                      | 20                                        | 59                       | 28                      |
| Public                                                                  | Univ. of South Carolina - Columbia    | 1                                         | 159                      | 97                      | 1                                         | 159                      | 97                      |
| Public                                                                  | University of South Florida - Tampa   | 10                                        | 78                       | 44                      | 10                                        | 75                       | 41                      |
| Private                                                                 | University of Southern California     | 44                                        | 30                       | 17                      | 45                                        | 28                       | 17                      |
| Public                                                                  | University of Tennessee - Knoxville   | 7                                         | 95                       | 58                      | 7                                         | 95                       | 58                      |
| Public                                                                  | University of Texas - Austin          | 69                                        | 19                       | 8                       | 75                                        | 16                       | 7                       |
| Public                                                                  | University of Texas - El Paso         | 0                                         | 233                      | 145                     | 0                                         | 230                      | 142                     |
| Public                                                                  | University of Texas HSC - Houston     | 6                                         | 99                       | 61                      | 5                                         | 105                      | 64                      |
| Public                                                                  | Univ. of Texas HSC - San Antonio      | 6                                         | 99                       | 61                      | 6                                         | 102                      | 61                      |
| Public                                                                  | U. of Texas MD Anderson Cancer Ctr.   | 14                                        | 66                       | 35                      | 16                                        | 62                       | 32                      |
| Public                                                                  | U. of Texas Med. Branch - Galveston   | 2                                         | 140                      | 84                      | 4                                         | 116                      | 70                      |
| Public                                                                  | U. of Texas SW Medical Ctr. - Dallas  | 35                                        | 34                       | 16                      | 35                                        | 33                       | 15                      |
| Public                                                                  | University of Utah                    | 24                                        | 50                       | 27                      | 25                                        | 49                       | 26                      |
| Public                                                                  | University of Vermont                 | 2                                         | 140                      | 84                      | 1                                         | 159                      | 97                      |
| Public                                                                  | University of Virginia                | 22                                        | 56                       | 31                      | 21                                        | 57                       | 30                      |

# The Top American Research Universities

| 2017<br>National<br>Academy<br>Membership | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>National<br>Academy<br>Membership | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>National<br>Academy<br>Membership | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|-------------------------------------------|--------------------------|-------------------------|-------------------------------------------|--------------------------|-------------------------|-------------------------------------------|--------------------------|-------------------------|
| 14                                        | 66                       | 35                      | 10                                        | 74                       | 38                      | 9                                         | 77                       | 41                      |
| 0                                         | 228                      | 141                     | 0                                         | 224                      | 138                     | 0                                         | 221                      | 136                     |
| 6                                         | 100                      | 59                      | 6                                         | 99                       | 59                      | 6                                         | 99                       | 58                      |
| 55                                        | 23                       | 10                      | 56                                        | 22                       | 10                      | 56                                        | 22                       | 9                       |
| 20                                        | 60                       | 31                      | 20                                        | 59                       | 31                      | 22                                        | 55                       | 29                      |
| 5                                         | 104                      | 62                      | 5                                         | 103                      | 62                      | 5                                         | 104                      | 62                      |
| 2                                         | 137                      | 83                      | 2                                         | 136                      | 81                      | 3                                         | 119                      | 73                      |
| 2                                         | 137                      | 83                      | 2                                         | 136                      | 81                      | 3                                         | 119                      | 73                      |
| 1                                         | 161                      | 97                      | 2                                         | 136                      | 81                      | 2                                         | 142                      | 87                      |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 1                                         | 163                      | 100                     |
| 9                                         | 82                       | 45                      | 9                                         | 78                       | 42                      | 9                                         | 77                       | 41                      |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 0                                         | 221                      | 136                     |
| 24                                        | 50                       | 26                      | 27                                        | 46                       | 25                      | 26                                        | 46                       | 25                      |
| 8                                         | 86                       | 49                      | 9                                         | 78                       | 42                      | 7                                         | 92                       | 54                      |
| 8                                         | 86                       | 49                      | 7                                         | 94                       | 56                      | 7                                         | 92                       | 54                      |
| 12                                        | 71                       | 33                      | 13                                        | 67                       | 32                      | 11                                        | 70                       | 34                      |
| 118                                       | 9                        | 3                       | 113                                       | 12                       | 4                       | 108                                       | 13                       | 5                       |
| 43                                        | 30                       | 12                      | 41                                        | 30                       | 12                      | 41                                        | 29                       | 12                      |
| 9                                         | 82                       | 45                      | 9                                         | 78                       | 42                      | 9                                         | 77                       | 41                      |
| 0                                         | 228                      | 141                     | 0                                         | 224                      | 138                     | 0                                         | 221                      | 136                     |
| 2                                         | 137                      | 83                      | 3                                         | 120                      | 73                      | 3                                         | 119                      | 73                      |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 1                                         | 163                      | 100                     |
| 2                                         | 137                      | 83                      | 2                                         | 136                      | 81                      | 2                                         | 142                      | 87                      |
| 0                                         | 228                      | 141                     | 0                                         | 224                      | 138                     | 0                                         | 221                      | 136                     |
| 5                                         | 104                      | 62                      | 5                                         | 103                      | 62                      | 5                                         | 104                      | 62                      |
| 36                                        | 32                       | 14                      | 38                                        | 31                       | 13                      | 38                                        | 33                       | 15                      |
| 0                                         | 228                      | 141                     | 0                                         | 224                      | 138                     | 0                                         | 221                      | 136                     |
| 4                                         | 113                      | 44                      | 4                                         | 111                      | 44                      | 4                                         | 111                      | 44                      |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 1                                         | 163                      | 100                     |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 1                                         | 163                      | 100                     |
| 10                                        | 75                       | 39                      | 9                                         | 78                       | 42                      | 9                                         | 77                       | 41                      |
| 127                                       | 7                        | 5                       | 118                                       | 9                        | 6                       | 117                                       | 8                        | 6                       |
| 27                                        | 45                       | 23                      | 32                                        | 36                       | 17                      | 32                                        | 35                       | 16                      |
| 2                                         | 137                      | 83                      | 2                                         | 136                      | 81                      | 2                                         | 142                      | 87                      |
| 22                                        | 56                       | 28                      | 22                                        | 53                       | 26                      | 24                                        | 50                       | 24                      |
| 1                                         | 161                      | 97                      | 0                                         | 224                      | 138                     | 1                                         | 163                      | 100                     |
| 10                                        | 75                       | 39                      | 8                                         | 87                       | 50                      | 8                                         | 84                       | 47                      |
| 46                                        | 27                       | 16                      | 48                                        | 25                       | 15                      | 50                                        | 25                       | 15                      |
| 6                                         | 100                      | 59                      | 6                                         | 99                       | 59                      | 5                                         | 104                      | 62                      |
| 69                                        | 19                       | 8                       | 70                                        | 17                       | 8                       | 69                                        | 17                       | 8                       |
| 0                                         | 228                      | 141                     | 0                                         | 224                      | 138                     | 0                                         | 221                      | 136                     |
| 5                                         | 104                      | 62                      | 4                                         | 111                      | 68                      | 3                                         | 119                      | 73                      |
| 5                                         | 104                      | 62                      | 5                                         | 103                      | 62                      | 5                                         | 104                      | 62                      |
| 16                                        | 62                       | 32                      | 11                                        | 71                       | 37                      | 12                                        | 68                       | 36                      |
| 3                                         | 120                      | 74                      | 3                                         | 120                      | 73                      | 3                                         | 119                      | 73                      |
| 36                                        | 32                       | 14                      | 36                                        | 32                       | 14                      | 40                                        | 30                       | 13                      |
| 23                                        | 52                       | 27                      | 21                                        | 56                       | 29                      | 23                                        | 54                       | 28                      |
| 2                                         | 137                      | 83                      | 2                                         | 136                      | 81                      | 2                                         | 142                      | 87                      |
| 23                                        | 52                       | 27                      | 23                                        | 52                       | 27                      | 24                                        | 50                       | 27                      |

### National Academy Membership

| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                       | 2019<br>National<br>Academy<br>Membership | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>National<br>Academy<br>Membership | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
|----------------------------------------------------------------------------|---------------------------------------|-------------------------------------------|--------------------------|-------------------------|-------------------------------------------|--------------------------|-------------------------|
| Public                                                                     | University of Washington - Seattle    | 104                                       | 15                       | 6                       | 104                                       | 15                       | 6                       |
| Public                                                                     | University of Wisconsin - Madison     | 71                                        | 18                       | 7                       | 72                                        | 17                       | 8                       |
| Public                                                                     | University of Wyoming                 | 2                                         | 140                      | 84                      | 2                                         | 139                      | 83                      |
| Public                                                                     | Utah State University                 | 1                                         | 159                      | 97                      | 0                                         | 230                      | 142                     |
| Private                                                                    | Vanderbilt University                 | 34                                        | 37                       | 19                      | 33                                        | 37                       | 19                      |
| Public                                                                     | Virginia Commonwealth University      | 7                                         | 95                       | 58                      | 7                                         | 95                       | 58                      |
| Public                                                                     | Virginia Polytechnic Inst. and St. U. | 12                                        | 71                       | 39                      | 13                                        | 69                       | 38                      |
| Private                                                                    | Wake Forest University                | 6                                         | 99                       | 39                      | 7                                         | 95                       | 38                      |
| Public                                                                     | Washington State Univ. - Pullman      | 9                                         | 83                       | 47                      | 9                                         | 82                       | 46                      |
| Private                                                                    | Washington University in St. Louis    | 56                                        | 22                       | 14                      | 57                                        | 21                       | 13                      |
| Public                                                                     | Wayne State University                | 3                                         | 124                      | 74                      | 3                                         | 122                      | 74                      |
| Private                                                                    | Weill Cornell Medical College         | 22                                        | 56                       | 26                      | 26                                        | 48                       | 23                      |
| Public                                                                     | West Virginia University              | 2                                         | 140                      | 84                      | 2                                         | 139                      | 83                      |
| Private                                                                    | Woods Hole Oceanographic Inst.        | 3                                         | 124                      | 51                      | 3                                         | 122                      | 49                      |
| Public                                                                     | Wright State University - Dayton      | 0                                         | 233                      | 145                     | 1                                         | 159                      | 97                      |
| Private                                                                    | Yale University                       | 129                                       | 8                        | 6                       | 127                                       | 8                        | 6                       |
| Private                                                                    | Yeshiva University                    | 13                                        | 69                       | 32                      | 13                                        | 69                       | 32                      |

| 2017<br>National<br>Academy<br>Membership | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>National<br>Academy<br>Membership | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>National<br>Academy<br>Membership | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|-------------------------------------------|--------------------------|-------------------------|-------------------------------------------|--------------------------|-------------------------|-------------------------------------------|--------------------------|-------------------------|
| 111                                       | 13                       | 5                       | 110                                       | 13                       | 5                       | 115                                       | 10                       | 4                       |
| 75                                        | 16                       | 7                       | 77                                        | 16                       | 7                       | 77                                        | 16                       | 7                       |
| 2                                         | 137                      | 83                      | 2                                         | 136                      | 81                      | 2                                         | 142                      | 87                      |
| 0                                         | 228                      | 141                     | 0                                         | 224                      | 138                     | 0                                         | 221                      | 136                     |
| 32                                        | 36                       | 20                      | 34                                        | 34                       | 19                      | 36                                        | 34                       | 19                      |
| 6                                         | 100                      | 59                      | 6                                         | 99                       | 59                      | 6                                         | 99                       | 58                      |
| 14                                        | 66                       | 35                      | 14                                        | 63                       | 32                      | 13                                        | 65                       | 34                      |
| 7                                         | 96                       | 39                      | 6                                         | 99                       | 41                      | 7                                         | 92                       | 39                      |
| 9                                         | 82                       | 45                      | 9                                         | 78                       | 42                      | 9                                         | 77                       | 41                      |
| 53                                        | 25                       | 15                      | 48                                        | 25                       | 15                      | 46                                        | 26                       | 16                      |
| 3                                         | 120                      | 74                      | 3                                         | 120                      | 73                      | 3                                         | 119                      | 73                      |
| 27                                        | 45                       | 23                      | 28                                        | 43                       | 21                      | 28                                        | 42                       | 21                      |
| 2                                         | 137                      | 83                      | 2                                         | 136                      | 81                      | 2                                         | 142                      | 87                      |
| 2                                         | 137                      | 55                      | 3                                         | 120                      | 48                      | 3                                         | 119                      | 47                      |
| 1                                         | 161                      | 97                      | 1                                         | 162                      | 98                      | 1                                         | 163                      | 100                     |
| 118                                       | 9                        | 7                       | 117                                       | 10                       | 7                       | 114                                       | 11                       | 7                       |
| 13                                        | 70                       | 32                      | 13                                        | 67                       | 32                      | 13                                        | 65                       | 32                      |

| Faculty Awards                                                          |                                        |                           |                          |                         |                           |                          |                         |
|-------------------------------------------------------------------------|----------------------------------------|---------------------------|--------------------------|-------------------------|---------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                        | 2019<br>Faculty<br>Awards | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>Faculty<br>Awards | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                  | Arizona State University               | 28                        | 17                       | 8                       | 13                        | 55                       | 35                      |
| Public                                                                  | Auburn University                      | 3                         | 160                      | 108                     | 3                         | 155                      | 109                     |
| Public                                                                  | Augusta University                     | 0                         | 490                      | 291                     | 0                         | 481                      | 291                     |
| Private                                                                 | Baylor College of Medicine             | 3                         | 160                      | 53                      | 6                         | 101                      | 37                      |
| Private                                                                 | Boston University                      | 14                        | 52                       | 21                      | 11                        | 61                       | 23                      |
| Private                                                                 | Brown University                       | 16                        | 43                       | 17                      | 9                         | 74                       | 27                      |
| Private                                                                 | California Institute of Technology     | 10                        | 75                       | 27                      | 15                        | 44                       | 19                      |
| Private                                                                 | Carnegie Mellon University             | 12                        | 62                       | 23                      | 16                        | 41                       | 18                      |
| Private                                                                 | Case Western Reserve University        | 12                        | 62                       | 23                      | 9                         | 74                       | 27                      |
| Public                                                                  | Clemson University                     | 8                         | 91                       | 61                      | 10                        | 66                       | 42                      |
| Public                                                                  | Cleveland State University             | 1                         | 280                      | 175                     | 3                         | 155                      | 109                     |
| Private                                                                 | Cold Spring Harbor Laboratory          | 3                         | 160                      | 53                      | 1                         | 274                      | 96                      |
| Public                                                                  | Colorado State Univ. - Fort Collins    | 14                        | 52                       | 32                      | 10                        | 66                       | 42                      |
| Private                                                                 | Columbia University                    | 41                        | 6                        | 3                       | 24                        | 21                       | 11                      |
| Private                                                                 | Cornell University                     | 23                        | 25                       | 11                      | 34                        | 6                        | 3                       |
| Private                                                                 | Dartmouth College                      | 13                        | 57                       | 22                      | 12                        | 58                       | 21                      |
| Private                                                                 | Drexel University                      | 12                        | 62                       | 23                      | 11                        | 61                       | 23                      |
| Private                                                                 | Duke University                        | 22                        | 28                       | 14                      | 21                        | 26                       | 13                      |
| Private                                                                 | Emory University                       | 15                        | 47                       | 19                      | 14                        | 49                       | 20                      |
| Public                                                                  | Florida International University       | 11                        | 68                       | 43                      | 5                         | 112                      | 74                      |
| Public                                                                  | Florida State University               | 14                        | 52                       | 32                      | 15                        | 44                       | 26                      |
| Public                                                                  | George Mason University                | 10                        | 75                       | 49                      | 3                         | 155                      | 109                     |
| Private                                                                 | George Washington University           | 9                         | 83                       | 29                      | 10                        | 66                       | 25                      |
| Private                                                                 | Georgetown University                  | 6                         | 108                      | 34                      | 2                         | 193                      | 64                      |
| Public                                                                  | Georgia Institute of Technology        | 17                        | 39                       | 23                      | 22                        | 23                       | 12                      |
| Public                                                                  | Georgia State University               | 3                         | 160                      | 108                     | 5                         | 112                      | 74                      |
| Private                                                                 | Harvard University                     | 76                        | 1                        | 1                       | 80                        | 1                        | 1                       |
| Private                                                                 | Icahn School of Med. at Mount Sinai    | 10                        | 75                       | 27                      | 6                         | 101                      | 37                      |
| Public                                                                  | Indiana University - Bloomington       | 10                        | 75                       | 49                      | 10                        | 66                       | 42                      |
| Public                                                                  | Iowa State University                  | 12                        | 62                       | 40                      | 15                        | 44                       | 26                      |
| Private                                                                 | Johns Hopkins University               | 23                        | 25                       | 11                      | 29                        | 11                       | 6                       |
| Public                                                                  | Kansas State University                | 5                         | 119                      | 83                      | 6                         | 101                      | 65                      |
| Public                                                                  | Louisiana State Univ. - Baton Rouge    | 4                         | 131                      | 90                      | 3                         | 155                      | 109                     |
| Private                                                                 | Massachusetts Inst. of Technology      | 30                        | 11                       | 6                       | 29                        | 11                       | 6                       |
| Private                                                                 | Medical College of Wisconsin           | 1                         | 280                      | 106                     | 0                         | 481                      | 190                     |
| Public                                                                  | Medical University of South Carolina   | 2                         | 208                      | 132                     | 1                         | 274                      | 179                     |
| Public                                                                  | Michigan State University              | 19                        | 36                       | 20                      | 20                        | 29                       | 16                      |
| Public                                                                  | Mississippi State University           | 2                         | 208                      | 132                     | 2                         | 193                      | 130                     |
| Public                                                                  | Montana State University - Bozeman     | 5                         | 119                      | 83                      | 6                         | 101                      | 65                      |
| Public                                                                  | Naval Postgraduate School              | 0                         | 490                      | 291                     | 0                         | 481                      | 291                     |
| Public                                                                  | New Jersey Institute of Technology     | 4                         | 131                      | 90                      | 5                         | 112                      | 74                      |
| Public                                                                  | New Mexico State Univ. - Las Cruces    | 0                         | 490                      | 291                     | 3                         | 155                      | 109                     |
| Private                                                                 | New York University                    | 29                        | 15                       | 9                       | 31                        | 9                        | 4                       |
| Public                                                                  | North Carolina State University        | 20                        | 31                       | 16                      | 18                        | 34                       | 21                      |
| Private                                                                 | Northeastern University                | 11                        | 68                       | 26                      | 18                        | 34                       | 14                      |
| Private                                                                 | Northwestern University                | 30                        | 11                       | 6                       | 25                        | 18                       | 10                      |
| Public                                                                  | Ohio State University - Columbus       | 13                        | 57                       | 36                      | 25                        | 18                       | 9                       |
| Public                                                                  | Oklahoma State University - Stillwater | 6                         | 108                      | 75                      | 2                         | 193                      | 130                     |
| Public                                                                  | Oregon Health & Science University     | 6                         | 108                      | 75                      | 7                         | 92                       | 59                      |

| 2017<br>Faculty<br>Awards | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Faculty<br>Awards | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Faculty<br>Awards | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|---------------------------|--------------------------|-------------------------|---------------------------|--------------------------|-------------------------|---------------------------|--------------------------|-------------------------|
| 25                        | 21                       | 9                       | 19                        | 28                       | 15                      | 23                        | 24                       | 10                      |
| 3                         | 149                      | 99                      | 5                         | 101                      | 66                      | 3                         | 144                      | 92                      |
| 0                         | 488                      | 296                     | 0                         | 460                      | 272                     | 0                         | 473                      | 284                     |
| 7                         | 87                       | 34                      | 4                         | 121                      | 44                      | 6                         | 98                       | 33                      |
| 13                        | 44                       | 18                      | 10                        | 58                       | 22                      | 16                        | 40                       | 18                      |
| 14                        | 43                       | 17                      | 16                        | 35                       | 16                      | 20                        | 29                       | 16                      |
| 17                        | 37                       | 16                      | 8                         | 69                       | 27                      | 16                        | 40                       | 18                      |
| 9                         | 69                       | 27                      | 16                        | 35                       | 16                      | 13                        | 49                       | 24                      |
| 10                        | 60                       | 24                      | 12                        | 51                       | 21                      | 11                        | 58                       | 26                      |
| 9                         | 69                       | 43                      | 5                         | 101                      | 66                      | 3                         | 144                      | 92                      |
| 0                         | 488                      | 296                     | 0                         | 460                      | 272                     | 2                         | 178                      | 115                     |
| 2                         | 187                      | 64                      | 1                         | 246                      | 89                      | 2                         | 178                      | 64                      |
| 5                         | 113                      | 75                      | 4                         | 121                      | 78                      | 11                        | 58                       | 33                      |
| 31                        | 13                       | 9                       | 25                        | 15                       | 6                       | 34                        | 8                        | 4                       |
| 29                        | 16                       | 10                      | 20                        | 25                       | 12                      | 30                        | 12                       | 7                       |
| 9                         | 69                       | 27                      | 9                         | 63                       | 25                      | 6                         | 98                       | 33                      |
| 4                         | 125                      | 42                      | 5                         | 101                      | 36                      | 5                         | 110                      | 39                      |
| 27                        | 18                       | 12                      | 25                        | 15                       | 6                       | 30                        | 12                       | 7                       |
| 12                        | 48                       | 20                      | 18                        | 30                       | 14                      | 19                        | 33                       | 17                      |
| 2                         | 187                      | 124                     | 3                         | 142                      | 93                      | 13                        | 49                       | 26                      |
| 10                        | 60                       | 37                      | 9                         | 63                       | 39                      | 9                         | 76                       | 48                      |
| 5                         | 113                      | 75                      | 3                         | 142                      | 93                      | 5                         | 110                      | 72                      |
| 10                        | 60                       | 24                      | 8                         | 69                       | 27                      | 14                        | 45                       | 21                      |
| 8                         | 78                       | 31                      | 2                         | 178                      | 64                      | 4                         | 127                      | 45                      |
| 19                        | 32                       | 18                      | 19                        | 28                       | 15                      | 21                        | 27                       | 12                      |
| 5                         | 113                      | 75                      | 5                         | 101                      | 66                      | 2                         | 178                      | 115                     |
| 75                        | 1                        | 1                       | 66                        | 1                        | 1                       | 84                        | 1                        | 1                       |
| 5                         | 113                      | 39                      | 5                         | 101                      | 36                      | 6                         | 98                       | 33                      |
| 20                        | 28                       | 15                      | 16                        | 35                       | 20                      | 15                        | 42                       | 23                      |
| 11                        | 54                       | 33                      | 7                         | 81                       | 51                      | 6                         | 98                       | 66                      |
| 28                        | 17                       | 11                      | 21                        | 21                       | 9                       | 33                        | 9                        | 5                       |
| 7                         | 87                       | 54                      | 7                         | 81                       | 51                      | 2                         | 178                      | 115                     |
| 6                         | 102                      | 66                      | 3                         | 142                      | 93                      | 5                         | 110                      | 72                      |
| 43                        | 6                        | 3                       | 33                        | 8                        | 4                       | 41                        | 5                        | 3                       |
| 0                         | 488                      | 191                     | 0                         | 460                      | 187                     | 0                         | 473                      | 190                     |
| 1                         | 270                      | 178                     | 1                         | 246                      | 158                     | 1                         | 263                      | 166                     |
| 13                        | 44                       | 27                      | 12                        | 51                       | 31                      | 11                        | 58                       | 33                      |
| 0                         | 488                      | 296                     | 1                         | 246                      | 158                     | 4                         | 127                      | 83                      |
| 3                         | 149                      | 99                      | 3                         | 142                      | 93                      | 2                         | 178                      | 115                     |
| 0                         | 488                      | 296                     | 1                         | 246                      | 158                     | 0                         | 473                      | 284                     |
| 4                         | 125                      | 84                      | 3                         | 142                      | 93                      | 0                         | 473                      | 284                     |
| 2                         | 187                      | 124                     | 2                         | 178                      | 115                     | 6                         | 98                       | 66                      |
| 20                        | 28                       | 14                      | 18                        | 30                       | 14                      | 27                        | 22                       | 13                      |
| 19                        | 32                       | 18                      | 20                        | 25                       | 14                      | 11                        | 58                       | 33                      |
| 12                        | 48                       | 20                      | 9                         | 63                       | 25                      | 14                        | 45                       | 21                      |
| 36                        | 10                       | 7                       | 25                        | 15                       | 6                       | 33                        | 9                        | 5                       |
| 20                        | 28                       | 15                      | 21                        | 21                       | 13                      | 17                        | 38                       | 21                      |
| 0                         | 488                      | 296                     | 3                         | 142                      | 93                      | 3                         | 144                      | 92                      |
| 9                         | 69                       | 43                      | 4                         | 121                      | 78                      | 8                         | 85                       | 56                      |

| Faculty Awards                                                             |                                         |                               |                              |                             |                               |                              |                             |
|----------------------------------------------------------------------------|-----------------------------------------|-------------------------------|------------------------------|-----------------------------|-------------------------------|------------------------------|-----------------------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                         | 2019<br><br>Faculty<br>Awards | 2019<br><br>National<br>Rank | 2019<br><br>Control<br>Rank | 2018<br><br>Faculty<br>Awards | 2018<br><br>National<br>Rank | 2018<br><br>Control<br>Rank |
| Public                                                                     | Oregon State University                 | 12                            | 62                           | 40                          | 7                             | 92                           | 59                          |
| Public                                                                     | Penn. State Univ. - Hershey Med. Ctr.   | 3                             | 160                          | 108                         | 2                             | 193                          | 130                         |
| Public                                                                     | Pennsylvania State Univ. - Univ. Park   | 30                            | 11                           | 6                           | 22                            | 23                           | 12                          |
| Private                                                                    | Princeton University                    | 30                            | 11                           | 6                           | 27                            | 14                           | 8                           |
| Public                                                                     | Purdue University - West Lafayette      | 28                            | 17                           | 8                           | 16                            | 41                           | 24                          |
| Private                                                                    | Rensselaer Polytechnic Institute        | 5                             | 119                          | 37                          | 4                             | 128                          | 40                          |
| Private                                                                    | Rice University                         | 5                             | 119                          | 37                          | 4                             | 128                          | 40                          |
| Private                                                                    | Rockefeller University                  | 5                             | 119                          | 37                          | 10                            | 66                           | 25                          |
| Private                                                                    | Rush University                         | 0                             | 490                          | 200                         | 0                             | 481                          | 190                         |
| Public                                                                     | Rutgers University - New Brunswick      | 17                            | 39                           | 23                          | 18                            | 34                           | 21                          |
| Private                                                                    | Scripps Research Institute              | 7                             | 97                           | 32                          | 9                             | 74                           | 27                          |
| Private                                                                    | Stanford University                     | 51                            | 3                            | 2                           | 52                            | 2                            | 2                           |
| Public                                                                     | State Univ. of NY - Polytechnic Inst.   | 0                             | 490                          | 291                         | 0                             | 481                          | 291                         |
| Public                                                                     | Stony Brook University                  | 10                            | 75                           | 49                          | 7                             | 92                           | 59                          |
| Public                                                                     | Temple University                       | 8                             | 91                           | 61                          | 7                             | 92                           | 59                          |
| Public                                                                     | Texas A&M Univ. - College Station       | 21                            | 29                           | 15                          | 14                            | 49                           | 30                          |
| Private                                                                    | Thomas Jefferson University             | 4                             | 131                          | 42                          | 3                             | 155                          | 47                          |
| Private                                                                    | Tufts University                        | 3                             | 160                          | 53                          | 3                             | 155                          | 47                          |
| Private                                                                    | Tulane University                       | 5                             | 119                          | 37                          | 7                             | 92                           | 34                          |
| Public                                                                     | Uniformed Services Univ. of the HS      | 0                             | 490                          | 291                         | 0                             | 481                          | 291                         |
| Public                                                                     | University at Albany                    | 7                             | 97                           | 66                          | 3                             | 155                          | 109                         |
| Public                                                                     | University at Buffalo                   | 15                            | 47                           | 29                          | 9                             | 74                           | 48                          |
| Public                                                                     | University of Alabama - Birmingham      | 1                             | 280                          | 175                         | 4                             | 128                          | 89                          |
| Public                                                                     | University of Alabama - Huntsville      | 0                             | 490                          | 291                         | 0                             | 481                          | 291                         |
| Public                                                                     | University of Alaska - Fairbanks        | 2                             | 208                          | 132                         | 4                             | 128                          | 89                          |
| Public                                                                     | University of Arizona                   | 11                            | 68                           | 43                          | 15                            | 44                           | 26                          |
| Public                                                                     | University of Arkansas - Fayetteville   | 7                             | 97                           | 66                          | 11                            | 61                           | 39                          |
| Public                                                                     | Univ. of Arkansas for Med. Sciences     | 1                             | 280                          | 175                         | 0                             | 481                          | 291                         |
| Public                                                                     | University of California - Berkeley     | 45                            | 5                            | 3                           | 36                            | 4                            | 2                           |
| Public                                                                     | University of California - Davis        | 29                            | 15                           | 7                           | 19                            | 31                           | 18                          |
| Public                                                                     | University of California - Irvine       | 17                            | 39                           | 23                          | 21                            | 26                           | 14                          |
| Public                                                                     | University of California - Los Angeles  | 27                            | 19                           | 10                          | 32                            | 8                            | 5                           |
| Public                                                                     | University of California - Riverside    | 11                            | 68                           | 43                          | 16                            | 41                           | 24                          |
| Public                                                                     | University of California - San Diego    | 26                            | 21                           | 11                          | 34                            | 6                            | 4                           |
| Public                                                                     | Univ. of California - San Francisco     | 24                            | 24                           | 14                          | 13                            | 55                           | 35                          |
| Public                                                                     | Univ. of California - Santa Barbara     | 16                            | 43                           | 27                          | 6                             | 101                          | 65                          |
| Public                                                                     | University of California - Santa Cruz   | 8                             | 91                           | 61                          | 11                            | 61                           | 39                          |
| Public                                                                     | University of Central Florida           | 11                            | 68                           | 43                          | 5                             | 112                          | 74                          |
| Private                                                                    | University of Chicago                   | 27                            | 19                           | 10                          | 22                            | 23                           | 12                          |
| Public                                                                     | University of Cincinnati - Cincinnati   | 9                             | 83                           | 55                          | 5                             | 112                          | 74                          |
| Public                                                                     | University of Colorado - Boulder        | 19                            | 36                           | 20                          | 13                            | 55                           | 35                          |
| Public                                                                     | U. of Colorado - Denver/Anschutz Med.   | 7                             | 97                           | 66                          | 5                             | 112                          | 74                          |
| Public                                                                     | University of Connecticut - Health Ctr. | 2                             | 208                          | 132                         | 2                             | 193                          | 130                         |
| Public                                                                     | University of Connecticut - Storrs      | 15                            | 47                           | 29                          | 14                            | 49                           | 30                          |
| Private                                                                    | University of Dayton                    | 1                             | 280                          | 106                         | 0                             | 481                          | 190                         |
| Public                                                                     | University of Delaware                  | 4                             | 131                          | 90                          | 5                             | 112                          | 74                          |
| Public                                                                     | University of Florida                   | 13                            | 57                           | 36                          | 14                            | 49                           | 30                          |
| Public                                                                     | University of Georgia                   | 13                            | 57                           | 36                          | 10                            | 66                           | 42                          |
| Public                                                                     | University of Hawaii - Manoa            | 9                             | 83                           | 55                          | 8                             | 82                           | 52                          |

| 2017<br>Faculty<br>Awards | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Faculty<br>Awards | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Faculty<br>Awards | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|---------------------------|--------------------------|-------------------------|---------------------------|--------------------------|-------------------------|---------------------------|--------------------------|-------------------------|
| 7                         | 87                       | 54                      | 10                        | 58                       | 37                      | 5                         | 110                      | 72                      |
| 2                         | 187                      | 124                     | 2                         | 178                      | 115                     | 2                         | 178                      | 115                     |
| 24                        | 22                       | 10                      | 22                        | 19                       | 11                      | 19                        | 33                       | 17                      |
| 40                        | 7                        | 4                       | 20                        | 25                       | 12                      | 22                        | 26                       | 15                      |
| 12                        | 48                       | 29                      | 27                        | 12                       | 7                       | 19                        | 33                       | 17                      |
| 2                         | 187                      | 64                      | 4                         | 121                      | 44                      | 5                         | 110                      | 39                      |
| 7                         | 87                       | 34                      | 8                         | 69                       | 27                      | 6                         | 98                       | 33                      |
| 9                         | 69                       | 27                      | 7                         | 81                       | 31                      | 7                         | 90                       | 31                      |
| 0                         | 488                      | 191                     | 0                         | 460                      | 187                     | 0                         | 473                      | 190                     |
| 16                        | 41                       | 25                      | 12                        | 51                       | 31                      | 20                        | 29                       | 14                      |
| 8                         | 78                       | 31                      | 10                        | 58                       | 22                      | 8                         | 85                       | 30                      |
| 62                        | 2                        | 2                       | 48                        | 2                        | 2                       | 56                        | 2                        | 2                       |
| 0                         | 488                      | 296                     | 0                         | 460                      | 272                     | 0                         | 473                      | 284                     |
| 8                         | 78                       | 48                      | 8                         | 69                       | 43                      | 10                        | 67                       | 40                      |
| 8                         | 78                       | 48                      | 5                         | 101                      | 66                      | 10                        | 67                       | 40                      |
| 8                         | 78                       | 48                      | 8                         | 69                       | 43                      | 14                        | 45                       | 25                      |
| 0                         | 488                      | 191                     | 0                         | 460                      | 187                     | 1                         | 263                      | 98                      |
| 8                         | 78                       | 31                      | 8                         | 69                       | 27                      | 6                         | 98                       | 33                      |
| 5                         | 113                      | 39                      | 6                         | 92                       | 34                      | 4                         | 127                      | 45                      |
| 0                         | 488                      | 296                     | 2                         | 178                      | 115                     | 2                         | 178                      | 115                     |
| 3                         | 149                      | 99                      | 2                         | 178                      | 115                     | 4                         | 127                      | 83                      |
| 11                        | 54                       | 33                      | 6                         | 92                       | 59                      | 6                         | 98                       | 66                      |
| 2                         | 187                      | 124                     | 3                         | 142                      | 93                      | 0                         | 473                      | 284                     |
| 2                         | 187                      | 124                     | 0                         | 460                      | 272                     | 2                         | 178                      | 115                     |
| 2                         | 187                      | 124                     | 0                         | 460                      | 272                     | 2                         | 178                      | 115                     |
| 12                        | 48                       | 29                      | 13                        | 46                       | 27                      | 9                         | 76                       | 48                      |
| 4                         | 125                      | 84                      | 5                         | 101                      | 66                      | 4                         | 127                      | 83                      |
| 0                         | 488                      | 296                     | 0                         | 460                      | 272                     | 0                         | 473                      | 284                     |
| 44                        | 5                        | 3                       | 36                        | 5                        | 3                       | 45                        | 3                        | 1                       |
| 10                        | 60                       | 37                      | 14                        | 45                       | 26                      | 12                        | 54                       | 30                      |
| 22                        | 27                       | 14                      | 15                        | 41                       | 22                      | 20                        | 29                       | 14                      |
| 30                        | 14                       | 5                       | 22                        | 19                       | 11                      | 29                        | 19                       | 8                       |
| 17                        | 37                       | 22                      | 12                        | 51                       | 31                      | 7                         | 90                       | 60                      |
| 30                        | 14                       | 5                       | 25                        | 15                       | 10                      | 29                        | 19                       | 8                       |
| 18                        | 34                       | 20                      | 28                        | 9                        | 5                       | 31                        | 11                       | 5                       |
| 7                         | 87                       | 54                      | 8                         | 69                       | 43                      | 12                        | 54                       | 30                      |
| 6                         | 102                      | 66                      | 8                         | 69                       | 43                      | 8                         | 85                       | 56                      |
| 7                         | 87                       | 54                      | 8                         | 69                       | 43                      | 7                         | 90                       | 60                      |
| 33                        | 12                       | 8                       | 21                        | 21                       | 9                       | 25                        | 23                       | 14                      |
| 6                         | 102                      | 66                      | 13                        | 46                       | 27                      | 10                        | 67                       | 40                      |
| 18                        | 34                       | 20                      | 16                        | 35                       | 20                      | 21                        | 27                       | 12                      |
| 4                         | 125                      | 84                      | 7                         | 81                       | 51                      | 5                         | 110                      | 72                      |
| 2                         | 187                      | 124                     | 2                         | 178                      | 115                     | 3                         | 144                      | 92                      |
| 10                        | 60                       | 37                      | 15                        | 41                       | 22                      | 9                         | 76                       | 48                      |
| 1                         | 270                      | 93                      | 0                         | 460                      | 187                     | 0                         | 473                      | 190                     |
| 11                        | 54                       | 33                      | 4                         | 121                      | 78                      | 9                         | 76                       | 48                      |
| 17                        | 37                       | 22                      | 15                        | 41                       | 22                      | 23                        | 24                       | 10                      |
| 10                        | 60                       | 37                      | 9                         | 63                       | 39                      | 6                         | 98                       | 66                      |
| 6                         | 102                      | 66                      | 5                         | 101                      | 66                      | 4                         | 127                      | 83                      |

| Faculty Awards                                                          |                                       |                            |                           |                          |                            |                           |                          |
|-------------------------------------------------------------------------|---------------------------------------|----------------------------|---------------------------|--------------------------|----------------------------|---------------------------|--------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2019<br><br>Faculty Awards | 2019<br><br>National Rank | 2019<br><br>Control Rank | 2018<br><br>Faculty Awards | 2018<br><br>National Rank | 2018<br><br>Control Rank |
| Public                                                                  | University of Houston - Univ. Park    | 6                          | 108                       | 75                       | 10                         | 66                        | 42                       |
| Public                                                                  | University of Idaho                   | 5                          | 119                       | 83                       | 2                          | 193                       | 130                      |
| Public                                                                  | University of Illinois - Chicago      | 7                          | 97                        | 66                       | 9                          | 74                        | 48                       |
| Public                                                                  | Univ. of Illinois - Urbana-Champaign  | 32                         | 8                         | 4                        | 35                         | 5                         | 3                        |
| Public                                                                  | University of Iowa                    | 11                         | 68                        | 43                       | 9                          | 74                        | 48                       |
| Public                                                                  | University of Kansas - Lawrence       | 9                          | 83                        | 55                       | 4                          | 128                       | 89                       |
| Public                                                                  | University of Kansas Medical Center   | 2                          | 208                       | 132                      | 1                          | 274                       | 179                      |
| Public                                                                  | University of Kentucky                | 14                         | 52                        | 32                       | 8                          | 82                        | 52                       |
| Public                                                                  | University of Louisville              | 2                          | 208                       | 132                      | 4                          | 128                       | 89                       |
| Public                                                                  | University of Maine - Orono           | 2                          | 208                       | 132                      | 4                          | 128                       | 89                       |
| Public                                                                  | University of Maryland - Baltimore    | 3                          | 160                       | 108                      | 4                          | 128                       | 89                       |
| Public                                                                  | Univ. of Maryland - Baltimore County  | 2                          | 208                       | 132                      | 2                          | 193                       | 130                      |
| Public                                                                  | University of Maryland - College Park | 17                         | 39                        | 23                       | 19                         | 31                        | 18                       |
| Public                                                                  | Univ. of Massachusetts - Amherst      | 20                         | 31                        | 16                       | 15                         | 44                        | 26                       |
| Public                                                                  | Univ. of Mass. Med. Sch. - Worcester  | 9                          | 83                        | 55                       | 8                          | 82                        | 52                       |
| Private                                                                 | University of Miami                   | 6                          | 108                       | 34                       | 4                          | 128                       | 40                       |
| Public                                                                  | University of Michigan - Ann Arbor    | 56                         | 2                         | 1                        | 38                         | 3                         | 1                        |
| Public                                                                  | University of Minnesota - Twin Cities | 31                         | 9                         | 5                        | 25                         | 18                        | 9                        |
| Public                                                                  | University of Missouri - Columbia     | 9                          | 83                        | 55                       | 5                          | 112                       | 74                       |
| Public                                                                  | University of Montana - Missoula      | 2                          | 208                       | 132                      | 1                          | 274                       | 179                      |
| Public                                                                  | University of Nebraska - Lincoln      | 10                         | 75                        | 49                       | 17                         | 39                        | 23                       |
| Public                                                                  | University of Nebraska Medical Ctr.   | 1                          | 280                       | 175                      | 1                          | 274                       | 179                      |
| Public                                                                  | University of Nevada - Reno           | 10                         | 75                        | 49                       | 4                          | 128                       | 89                       |
| Public                                                                  | Univ. of New Hampshire - Durham       | 4                          | 131                       | 90                       | 2                          | 193                       | 130                      |
| Public                                                                  | Univ. of New Mexico - Albuquerque     | 14                         | 52                        | 32                       | 10                         | 66                        | 42                       |
| Public                                                                  | Univ. of North Carolina - Chapel Hill | 26                         | 21                        | 11                       | 28                         | 13                        | 6                        |
| Public                                                                  | University of North Dakota            | 0                          | 490                       | 291                      | 2                          | 193                       | 130                      |
| Private                                                                 | University of Notre Dame              | 15                         | 47                        | 19                       | 9                          | 74                        | 27                       |
| Public                                                                  | University of Oklahoma - HSC          | 1                          | 280                       | 175                      | 1                          | 274                       | 179                      |
| Public                                                                  | University of Oklahoma - Norman       | 4                          | 131                       | 90                       | 8                          | 82                        | 52                       |
| Public                                                                  | University of Oregon                  | 7                          | 97                        | 66                       | 12                         | 58                        | 38                       |
| Private                                                                 | University of Pennsylvania            | 41                         | 6                         | 3                        | 30                         | 10                        | 5                        |
| Public                                                                  | University of Pittsburgh - Pittsburgh | 20                         | 31                        | 16                       | 21                         | 26                        | 14                       |
| Public                                                                  | University of Rhode Island            | 4                          | 131                       | 90                       | 2                          | 193                       | 130                      |
| Private                                                                 | University of Rochester               | 16                         | 43                        | 17                       | 18                         | 34                        | 14                       |
| Public                                                                  | Univ. of South Carolina - Columbia    | 6                          | 108                       | 75                       | 5                          | 112                       | 74                       |
| Public                                                                  | University of South Florida - Tampa   | 13                         | 57                        | 36                       | 14                         | 49                        | 30                       |
| Private                                                                 | University of Southern California     | 23                         | 25                        | 11                       | 17                         | 39                        | 17                       |
| Public                                                                  | University of Tennessee - Knoxville   | 12                         | 62                        | 40                       | 14                         | 49                        | 30                       |
| Public                                                                  | University of Texas - Austin          | 19                         | 36                        | 20                       | 27                         | 14                        | 7                        |
| Public                                                                  | University of Texas - El Paso         | 1                          | 280                       | 175                      | 2                          | 193                       | 130                      |
| Public                                                                  | University of Texas HSC - Houston     | 1                          | 280                       | 175                      | 1                          | 274                       | 179                      |
| Public                                                                  | Univ. of Texas HSC - San Antonio      | 1                          | 280                       | 175                      | 0                          | 481                       | 291                      |
| Public                                                                  | U. of Texas MD Anderson Cancer Ctr.   | 5                          | 119                       | 83                       | 7                          | 92                        | 59                       |
| Public                                                                  | U. of Texas Med. Branch - Galveston   | 0                          | 490                       | 291                      | 1                          | 274                       | 179                      |
| Public                                                                  | Univ. of Texas SW Med. Ctr. - Dallas  | 7                          | 97                        | 66                       | 11                         | 61                        | 39                       |
| Public                                                                  | University of Utah                    | 15                         | 47                        | 29                       | 20                         | 29                        | 16                       |
| Public                                                                  | University of Vermont                 | 5                          | 119                       | 83                       | 7                          | 92                        | 59                       |
| Public                                                                  | University of Virginia                | 20                         | 31                        | 16                       | 8                          | 82                        | 52                       |

# The Top American Research Universities

| 2017<br>Faculty<br>Awards | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Faculty<br>Awards | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Faculty<br>Awards | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|---------------------------|--------------------------|-------------------------|---------------------------|--------------------------|-------------------------|---------------------------|--------------------------|-------------------------|
| 7                         | 87                       | 54                      | 7                         | 81                       | 51                      | 4                         | 127                      | 83                      |
| 3                         | 149                      | 99                      | 3                         | 142                      | 93                      | 2                         | 178                      | 115                     |
| 12                        | 48                       | 29                      | 11                        | 56                       | 35                      | 11                        | 58                       | 33                      |
| 35                        | 11                       | 4                       | 38                        | 4                        | 2                       | 30                        | 12                       | 6                       |
| 7                         | 87                       | 54                      | 9                         | 63                       | 39                      | 10                        | 67                       | 40                      |
| 8                         | 78                       | 48                      | 4                         | 121                      | 78                      | 11                        | 58                       | 33                      |
| 1                         | 270                      | 178                     | 0                         | 460                      | 272                     | 0                         | 473                      | 284                     |
| 9                         | 69                       | 43                      | 7                         | 81                       | 51                      | 10                        | 67                       | 40                      |
| 6                         | 102                      | 66                      | 1                         | 246                      | 158                     | 5                         | 110                      | 72                      |
| 1                         | 270                      | 178                     | 1                         | 246                      | 158                     | 1                         | 263                      | 166                     |
| 4                         | 125                      | 84                      | 2                         | 178                      | 115                     | 3                         | 144                      | 92                      |
| 7                         | 87                       | 54                      | 3                         | 142                      | 93                      | 2                         | 178                      | 115                     |
| 15                        | 42                       | 26                      | 13                        | 46                       | 27                      | 20                        | 29                       | 14                      |
| 13                        | 44                       | 27                      | 8                         | 69                       | 43                      | 17                        | 38                       | 21                      |
| 10                        | 60                       | 37                      | 11                        | 56                       | 35                      | 12                        | 54                       | 30                      |
| 10                        | 60                       | 24                      | 5                         | 101                      | 36                      | 7                         | 90                       | 31                      |
| 54                        | 3                        | 1                       | 48                        | 2                        | 1                       | 42                        | 4                        | 2                       |
| 26                        | 20                       | 8                       | 27                        | 12                       | 7                       | 35                        | 7                        | 4                       |
| 7                         | 87                       | 54                      | 7                         | 81                       | 51                      | 9                         | 76                       | 48                      |
| 6                         | 102                      | 66                      | 4                         | 121                      | 78                      | 2                         | 178                      | 115                     |
| 7                         | 87                       | 54                      | 8                         | 69                       | 43                      | 3                         | 144                      | 92                      |
| 1                         | 270                      | 178                     | 0                         | 460                      | 272                     | 0                         | 473                      | 284                     |
| 3                         | 149                      | 99                      | 2                         | 178                      | 115                     | 0                         | 473                      | 284                     |
| 2                         | 187                      | 124                     | 6                         | 92                       | 59                      | 3                         | 144                      | 92                      |
| 11                        | 54                       | 33                      | 9                         | 63                       | 39                      | 10                        | 67                       | 40                      |
| 24                        | 22                       | 10                      | 28                        | 9                        | 5                       | 19                        | 33                       | 17                      |
| 1                         | 270                      | 178                     | 0                         | 460                      | 272                     | 2                         | 178                      | 115                     |
| 23                        | 26                       | 13                      | 16                        | 35                       | 16                      | 14                        | 45                       | 21                      |
| 1                         | 270                      | 178                     | 1                         | 246                      | 158                     | 0                         | 473                      | 284                     |
| 2                         | 187                      | 124                     | 4                         | 121                      | 78                      | 9                         | 76                       | 48                      |
| 7                         | 87                       | 54                      | 8                         | 69                       | 43                      | 11                        | 58                       | 33                      |
| 40                        | 7                        | 4                       | 34                        | 7                        | 3                       | 30                        | 12                       | 7                       |
| 24                        | 22                       | 10                      | 17                        | 33                       | 18                      | 13                        | 49                       | 26                      |
| 4                         | 125                      | 84                      | 3                         | 142                      | 93                      | 2                         | 178                      | 115                     |
| 9                         | 69                       | 27                      | 5                         | 101                      | 36                      | 12                        | 54                       | 25                      |
| 12                        | 48                       | 29                      | 5                         | 101                      | 66                      | 9                         | 76                       | 48                      |
| 10                        | 60                       | 37                      | 13                        | 46                       | 27                      | 13                        | 49                       | 26                      |
| 18                        | 34                       | 15                      | 21                        | 21                       | 9                       | 30                        | 12                       | 7                       |
| 8                         | 78                       | 48                      | 17                        | 33                       | 18                      | 8                         | 85                       | 56                      |
| 24                        | 22                       | 10                      | 18                        | 30                       | 17                      | 19                        | 33                       | 17                      |
| 0                         | 488                      | 296                     | 0                         | 460                      | 272                     | 1                         | 263                      | 166                     |
| 4                         | 125                      | 84                      | 1                         | 246                      | 158                     | 2                         | 178                      | 115                     |
| 1                         | 270                      | 178                     | 0                         | 460                      | 272                     | 0                         | 473                      | 284                     |
| 2                         | 187                      | 124                     | 2                         | 178                      | 115                     | 3                         | 144                      | 92                      |
| 0                         | 488                      | 296                     | 0                         | 460                      | 272                     | 0                         | 473                      | 284                     |
| 9                         | 69                       | 43                      | 12                        | 51                       | 31                      | 13                        | 49                       | 26                      |
| 7                         | 87                       | 54                      | 15                        | 41                       | 22                      | 10                        | 67                       | 40                      |
| 5                         | 113                      | 75                      | 5                         | 101                      | 66                      | 5                         | 110                      | 72                      |
| 20                        | 28                       | 15                      | 7                         | 81                       | 51                      | 15                        | 42                       | 23                      |

| Faculty Awards                                                          |                                       |                     |                    |                   |                     |                    |                   |
|-------------------------------------------------------------------------|---------------------------------------|---------------------|--------------------|-------------------|---------------------|--------------------|-------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2019 Faculty Awards | 2019 National Rank | 2019 Control Rank | 2018 Faculty Awards | 2018 National Rank | 2018 Control Rank |
| Public                                                                  | University of Washington - Seattle    | 46                  | 4                  | 2                 | 27                  | 14                 | 7                 |
| Public                                                                  | University of Wisconsin - Madison     | 26                  | 21                 | 11                | 24                  | 21                 | 11                |
| Public                                                                  | University of Wyoming                 | 3                   | 160                | 108               | 4                   | 128                | 89                |
| Public                                                                  | Utah State University                 | 6                   | 108                | 75                | 8                   | 82                 | 52                |
| Private                                                                 | Vanderbilt University                 | 21                  | 29                 | 15                | 18                  | 34                 | 14                |
| Public                                                                  | Virginia Commonwealth University      | 7                   | 97                 | 66                | 6                   | 101                | 65                |
| Public                                                                  | Virginia Polytechnic Inst. and St. U. | 16                  | 43                 | 27                | 19                  | 31                 | 18                |
| Private                                                                 | Wake Forest University                | 4                   | 131                | 42                | 5                   | 112                | 39                |
| Public                                                                  | Washington State Univ. - Pullman      | 11                  | 68                 | 43                | 9                   | 74                 | 48                |
| Private                                                                 | Washington University in St. Louis    | 20                  | 31                 | 16                | 12                  | 58                 | 21                |
| Public                                                                  | Wayne State University                | 5                   | 119                | 83                | 5                   | 112                | 74                |
| Private                                                                 | Weill Cornell Medical College         | 7                   | 97                 | 32                | 4                   | 128                | 40                |
| Public                                                                  | West Virginia University              | 9                   | 83                 | 55                | 6                   | 101                | 65                |
| Private                                                                 | Woods Hole Oceanographic Inst.        | 0                   | 490                | 200               | 0                   | 481                | 190               |
| Public                                                                  | Wright State University - Dayton      | 1                   | 280                | 175               | 1                   | 274                | 179               |
| Private                                                                 | Yale University                       | 31                  | 9                  | 5                 | 27                  | 14                 | 8                 |
| Private                                                                 | Yeshiva University                    | 3                   | 160                | 53                | 7                   | 92                 | 34                |

| 2017<br>Faculty<br>Awards | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Faculty<br>Awards | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Faculty<br>Awards | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|---------------------------|--------------------------|-------------------------|---------------------------|--------------------------|-------------------------|---------------------------|--------------------------|-------------------------|
| 49                        | 4                        | 2                       | 35                        | 6                        | 4                       | 39                        | 6                        | 3                       |
| 27                        | 18                       | 7                       | 27                        | 12                       | 7                       | 30                        | 12                       | 6                       |
| 6                         | 102                      | 66                      | 1                         | 246                      | 158                     | 3                         | 144                      | 92                      |
| 8                         | 78                       | 48                      | 7                         | 81                       | 51                      | 3                         | 144                      | 92                      |
| 11                        | 54                       | 22                      | 13                        | 46                       | 20                      | 15                        | 42                       | 20                      |
| 6                         | 102                      | 66                      | 2                         | 178                      | 115                     | 6                         | 98                       | 66                      |
| 17                        | 37                       | 22                      | 6                         | 92                       | 59                      | 10                        | 67                       | 40                      |
| 4                         | 125                      | 42                      | 3                         | 142                      | 50                      | 3                         | 144                      | 53                      |
| 6                         | 102                      | 66                      | 10                        | 58                       | 37                      | 7                         | 90                       | 60                      |
| 13                        | 44                       | 18                      | 16                        | 35                       | 16                      | 29                        | 19                       | 12                      |
| 4                         | 125                      | 84                      | 3                         | 142                      | 93                      | 5                         | 110                      | 72                      |
| 11                        | 54                       | 22                      | 10                        | 58                       | 22                      | 10                        | 67                       | 28                      |
| 5                         | 113                      | 75                      | 5                         | 101                      | 66                      | 8                         | 85                       | 56                      |
| 0                         | 488                      | 191                     | 0                         | 460                      | 187                     | 1                         | 263                      | 98                      |
| 1                         | 270                      | 178                     | 2                         | 178                      | 115                     | 1                         | 263                      | 166                     |
| 37                        | 9                        | 6                       | 28                        | 9                        | 5                       | 30                        | 12                       | 7                       |
| 3                         | 149                      | 51                      | 4                         | 121                      | 44                      | 5                         | 110                      | 39                      |

## The Top American Research Universities

| Doctorates Awarded                                                      |                                        |                    |                       |                      |                    |                       |                      |
|-------------------------------------------------------------------------|----------------------------------------|--------------------|-----------------------|----------------------|--------------------|-----------------------|----------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                        | 2019<br>Doctorates | 2019<br>National Rank | 2019<br>Control Rank | 2018<br>Doctorates | 2018<br>National Rank | 2018<br>Control Rank |
| Public                                                                  | Arizona State University               | 714                | 17                    | 14                   | 692                | 17                    | 13                   |
| Public                                                                  | Auburn University                      | 244                | 88                    | 64                   | 253                | 85                    | 59                   |
| Public                                                                  | Augusta University                     | 31                 | 331                   | 192                  | 35                 | 311                   | 187                  |
| Private                                                                 | Baylor College of Medicine             | 129                | 148                   | 47                   | 100                | 173                   | 57                   |
| Private                                                                 | Boston University                      | 491                | 35                    | 12                   | 535                | 30                    | 11                   |
| Private                                                                 | Brown University                       | 225                | 97                    | 28                   | 208                | 100                   | 30                   |
| Private                                                                 | California Institute of Technology     | 207                | 104                   | 30                   | 191                | 107                   | 33                   |
| Private                                                                 | Carnegie Mellon University             | 322                | 68                    | 18                   | 322                | 66                    | 19                   |
| Private                                                                 | Case Western Reserve University        | 207                | 104                   | 30                   | 219                | 97                    | 28                   |
| Public                                                                  | Clemson University                     | 243                | 89                    | 65                   | 232                | 92                    | 66                   |
| Public                                                                  | Cleveland State University             | 47                 | 276                   | 169                  | 46                 | 276                   | 170                  |
| Private                                                                 | Cold Spring Harbor Laboratory          |                    |                       |                      |                    |                       |                      |
| Public                                                                  | Colorado State Univ. - Fort Collins    | 263                | 80                    | 59                   | 250                | 86                    | 60                   |
| Private                                                                 | Columbia University                    | 576                | 22                    | 6                    | 669                | 18                    | 5                    |
| Private                                                                 | Cornell University                     | 531                | 29                    | 10                   | 540                | 29                    | 10                   |
| Private                                                                 | Dartmouth College                      | 100                | 177                   | 60                   | 81                 | 204                   | 73                   |
| Private                                                                 | Drexel University                      | 223                | 98                    | 29                   | 231                | 94                    | 27                   |
| Private                                                                 | Duke University                        | 551                | 25                    | 7                    | 669                | 18                    | 5                    |
| Private                                                                 | Emory University                       | 246                | 87                    | 24                   | 276                | 78                    | 22                   |
| Public                                                                  | Florida International University       | 215                | 101                   | 72                   | 200                | 105                   | 73                   |
| Public                                                                  | Florida State University               | 422                | 44                    | 29                   | 422                | 44                    | 29                   |
| Public                                                                  | George Mason University                | 293                | 77                    | 56                   | 300                | 71                    | 52                   |
| Private                                                                 | George Washington University           | 240                | 91                    | 26                   | 265                | 79                    | 23                   |
| Private                                                                 | Georgetown University                  | 123                | 157                   | 52                   | 131                | 143                   | 43                   |
| Public                                                                  | Georgia Institute of Technology        | 526                | 31                    | 21                   | 530                | 32                    | 21                   |
| Public                                                                  | Georgia State University               | 273                | 79                    | 58                   | 259                | 83                    | 57                   |
| Private                                                                 | Harvard University                     | 771                | 9                     | 2                    | 750                | 11                    | 3                    |
| Private                                                                 | Icahn School of Med. at Mount Sinai    | 32                 | 327                   | 136                  | 49                 | 265                   | 100                  |
| Public                                                                  | Indiana University - Bloomington       | 504                | 34                    | 23                   | 500                | 36                    | 25                   |
| Public                                                                  | Iowa State University                  | 416                | 46                    | 31                   | 416                | 47                    | 32                   |
| Private                                                                 | Johns Hopkins University               | 537                | 28                    | 9                    | 591                | 24                    | 8                    |
| Public                                                                  | Kansas State University                | 207                | 104                   | 75                   | 180                | 113                   | 79                   |
| Public                                                                  | Louisiana State Univ. - Baton Rouge    | 325                | 67                    | 50                   | 299                | 72                    | 53                   |
| Private                                                                 | Massachusetts Inst. of Technology      | 687                | 18                    | 4                    | 645                | 21                    | 7                    |
| Private                                                                 | Medical College of Wisconsin           | 33                 | 324                   | 134                  | 32                 | 320                   | 129                  |
| Public                                                                  | Medical University of South Carolina   | 150                | 131                   | 92                   | 163                | 121                   | 85                   |
| Public                                                                  | Michigan State University              | 562                | 24                    | 18                   | 553                | 26                    | 18                   |
| Public                                                                  | Mississippi State University           | 179                | 119                   | 84                   | 173                | 116                   | 81                   |
| Public                                                                  | Montana State University - Bozeman     | 74                 | 217                   | 139                  | 71                 | 215                   | 138                  |
| Public                                                                  | Naval Postgraduate School              | 10                 | 497                   | 253                  | 12                 | 464                   | 242                  |
| Public                                                                  | New Jersey Institute of Technology     | 56                 | 253                   | 157                  | 73                 | 213                   | 137                  |
| Public                                                                  | New Mexico State Univ. - Las Cruces    | 116                | 163                   | 109                  | 126                | 149                   | 103                  |
| Private                                                                 | New York University                    | 430                | 40                    | 13                   | 435                | 42                    | 14                   |
| Public                                                                  | North Carolina State University        | 571                | 23                    | 17                   | 533                | 31                    | 20                   |
| Private                                                                 | Northeastern University                | 200                | 110                   | 32                   | 184                | 111                   | 34                   |
| Private                                                                 | Northwestern University                | 518                | 32                    | 11                   | 443                | 40                    | 12                   |
| Public                                                                  | Ohio State University - Columbus       | 886                | 2                     | 1                    | 855                | 3                     | 3                    |
| Public                                                                  | Oklahoma State University - Stillwater | 231                | 94                    | 67                   | 243                | 90                    | 64                   |
| Public                                                                  | Oregon Health & Science University     | 38                 | 309                   | 183                  | 54                 | 252                   | 157                  |

| 2017<br>Doctorates | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Doctorates | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Doctorates | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|--------------------|--------------------------|-------------------------|--------------------|--------------------------|-------------------------|--------------------|--------------------------|-------------------------|
| 677                | 18                       | 13                      | 674                | 14                       | 11                      | 687                | 14                       | 12                      |
| 289                | 72                       | 54                      | 272                | 79                       | 59                      | 257                | 80                       | 58                      |
| 17                 | 389                      | 221                     | 20                 | 376                      | 215                     | 29                 | 314                      | 191                     |
| 99                 | 174                      | 56                      | 94                 | 179                      | 59                      | 111                | 157                      | 50                      |
| 509                | 33                       | 10                      | 579                | 22                       | 7                       | 484                | 36                       | 11                      |
| 210                | 100                      | 30                      | 235                | 88                       | 24                      | 215                | 94                       | 26                      |
| 180                | 113                      | 36                      | 190                | 105                      | 32                      | 182                | 110                      | 32                      |
| 288                | 73                       | 19                      | 323                | 60                       | 18                      | 333                | 62                       | 19                      |
| 206                | 103                      | 32                      | 230                | 90                       | 25                      | 197                | 101                      | 30                      |
| 231                | 93                       | 67                      | 233                | 89                       | 65                      | 237                | 88                       | 64                      |
| 51                 | 255                      | 161                     | 54                 | 239                      | 154                     | 59                 | 232                      | 154                     |
|                    |                          |                         |                    |                          |                         |                    |                          |                         |
| 223                | 96                       | 68                      | 249                | 85                       | 62                      | 251                | 81                       | 59                      |
| 570                | 23                       | 8                       | 587                | 21                       | 6                       | 564                | 24                       | 7                       |
| 501                | 35                       | 11                      | 497                | 35                       | 11                      | 487                | 34                       | 9                       |
| 83                 | 197                      | 65                      | 87                 | 185                      | 62                      | 85                 | 192                      | 65                      |
| 227                | 95                       | 28                      | 214                | 95                       | 28                      | 213                | 96                       | 27                      |
| 685                | 16                       | 4                       | 537                | 26                       | 9                       | 485                | 35                       | 10                      |
| 251                | 86                       | 23                      | 251                | 84                       | 23                      | 264                | 78                       | 22                      |
| 199                | 106                      | 74                      | 151                | 123                      | 86                      | 189                | 108                      | 77                      |
| 398                | 46                       | 33                      | 386                | 48                       | 33                      | 424                | 46                       | 31                      |
| 283                | 75                       | 55                      | 322                | 62                       | 44                      | 249                | 82                       | 60                      |
| 251                | 86                       | 23                      | 264                | 81                       | 22                      | 222                | 91                       | 25                      |
| 124                | 148                      | 44                      | 124                | 146                      | 49                      | 114                | 154                      | 48                      |
| 508                | 34                       | 24                      | 531                | 28                       | 19                      | 526                | 29                       | 21                      |
| 262                | 83                       | 62                      | 223                | 91                       | 66                      | 231                | 90                       | 66                      |
| 718                | 13                       | 3                       | 713                | 12                       | 3                       | 745                | 9                        | 1                       |
| 49                 | 261                      | 97                      | 23                 | 351                      | 152                     | 28                 | 320                      | 127                     |
| 485                | 37                       | 26                      | 485                | 38                       | 26                      | 538                | 26                       | 19                      |
| 374                | 50                       | 35                      | 327                | 59                       | 42                      | 336                | 60                       | 42                      |
| 553                | 26                       | 9                       | 528                | 30                       | 10                      | 535                | 27                       | 8                       |
| 191                | 109                      | 76                      | 179                | 110                      | 76                      | 190                | 107                      | 76                      |
| 315                | 66                       | 48                      | 344                | 56                       | 39                      | 331                | 63                       | 44                      |
| 622                | 21                       | 6                       | 646                | 17                       | 5                       | 606                | 20                       | 5                       |
| 29                 | 342                      | 146                     | 24                 | 344                      | 147                     | 26                 | 330                      | 134                     |
| 179                | 115                      | 79                      | 181                | 109                      | 75                      | 191                | 106                      | 75                      |
| 552                | 27                       | 18                      | 533                | 27                       | 18                      | 577                | 22                       | 17                      |
| 176                | 117                      | 80                      | 153                | 121                      | 85                      | 146                | 127                      | 91                      |
| 66                 | 218                      | 145                     | 52                 | 249                      | 159                     | 79                 | 204                      | 136                     |
| 19                 | 379                      | 214                     | 15                 | 417                      | 231                     | 15                 | 395                      | 224                     |
| 59                 | 231                      | 151                     | 57                 | 233                      | 151                     | 65                 | 224                      | 149                     |
| 103                | 167                      | 116                     | 105                | 167                      | 113                     | 131                | 138                      | 97                      |
| 445                | 40                       | 13                      | 489                | 37                       | 12                      | 438                | 39                       | 12                      |
| 540                | 29                       | 20                      | 518                | 33                       | 23                      | 512                | 31                       | 23                      |
| 228                | 94                       | 27                      | 186                | 107                      | 33                      | 157                | 121                      | 35                      |
| 454                | 39                       | 12                      | 467                | 40                       | 13                      | 438                | 39                       | 12                      |
| 818                | 5                        | 5                       | 807                | 4                        | 4                       | 832                | 4                        | 4                       |
| 223                | 96                       | 68                      | 256                | 82                       | 60                      | 242                | 84                       | 61                      |
| 49                 | 261                      | 165                     | 44                 | 273                      | 174                     | 43                 | 268                      | 171                     |

| Doctorates Awarded                                                      |                                         |                 |                    |                   |                 |                    |                   |
|-------------------------------------------------------------------------|-----------------------------------------|-----------------|--------------------|-------------------|-----------------|--------------------|-------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                         | 2019 Doctorates | 2019 National Rank | 2019 Control Rank | 2018 Doctorates | 2018 National Rank | 2018 Control Rank |
| Public                                                                  | Oregon State University                 | 296             | 75                 | 55                | 249             | 87                 | 61                |
| Public                                                                  | Penn. State Univ. - Hershey Med. Ctr.   | 24              | 360                | 206               | 37              | 301                | 181               |
| Public                                                                  | Pennsylvania State Univ. - Univ. Park   | 632             | 20                 | 15                | 668             | 20                 | 14                |
| Private                                                                 | Princeton University                    | 398             | 49                 | 16                | 396             | 49                 | 16                |
| Public                                                                  | Purdue University - West Lafayette      | 730             | 15                 | 12                | 745             | 12                 | 9                 |
| Private                                                                 | Rensselaer Polytechnic Institute        | 148             | 132                | 40                | 164             | 119                | 36                |
| Private                                                                 | Rice University                         | 233             | 92                 | 27                | 207             | 101                | 31                |
| Private                                                                 | Rockefeller University                  | 30              | 335                | 142               | 30              | 328                | 137               |
| Private                                                                 | Rush University                         | 17              | 418                | 188               | 14              | 437                | 207               |
| Public                                                                  | Rutgers University - New Brunswick      | 744             | 13                 | 10                | 737             | 13                 | 10                |
| Private                                                                 | Scripps Research Institute              |                 |                    |                   |                 |                    |                   |
| Private                                                                 | Stanford University                     | 770             | 10                 | 3                 | 726             | 14                 | 4                 |
| Public                                                                  | State Univ. of NY - Polytechnic Inst.   | 7               | 547                | 264               | 5               | 571                | 276               |
| Public                                                                  | Stony Brook University                  | 367             | 56                 | 40                | 311             | 68                 | 49                |
| Public                                                                  | Temple University                       | 250             | 84                 | 62                | 217             | 98                 | 70                |
| Public                                                                  | Texas A&M Univ. - College Station       | 774             | 8                  | 7                 | 758             | 10                 | 8                 |
| Private                                                                 | Thomas Jefferson University             | 31              | 331                | 140               | 15              | 424                | 197               |
| Private                                                                 | Tufts University                        | 141             | 137                | 42                | 158             | 130                | 41                |
| Private                                                                 | Tulane University                       | 125             | 155                | 50                | 130             | 144                | 44                |
| Public                                                                  | Uniformed Services Univ. of the HS      |                 |                    |                   |                 |                    |                   |
| Public                                                                  | University at Albany                    | 129             | 148                | 102               | 172             | 117                | 82                |
| Public                                                                  | University at Buffalo                   | 387             | 52                 | 36                | 332             | 62                 | 45                |
| Public                                                                  | University of Alabama - Birmingham      | 146             | 133                | 93                | 161             | 125                | 87                |
| Public                                                                  | University of Alabama - Huntsville      | 38              | 309                | 183               | 25              | 353                | 197               |
| Public                                                                  | University of Alaska - Fairbanks        | 37              | 312                | 185               | 55              | 246                | 154               |
| Public                                                                  | University of Arizona                   | 448             | 38                 | 26                | 451             | 39                 | 28                |
| Public                                                                  | University of Arkansas - Fayetteville   | 209             | 103                | 74                | 204             | 103                | 71                |
| Public                                                                  | Univ. of Arkansas for Med. Sciences     | 27              | 345                | 199               | 42              | 287                | 174               |
| Public                                                                  | University of California - Berkeley     | 881             | 3                  | 2                 | 871             | 2                  | 2                 |
| Public                                                                  | University of California - Davis        | 546             | 27                 | 19                | 562             | 25                 | 17                |
| Public                                                                  | University of California - Irvine       | 407             | 48                 | 33                | 380             | 53                 | 37                |
| Public                                                                  | University of California - Los Angeles  | 733             | 14                 | 11                | 721             | 15                 | 11                |
| Public                                                                  | University of California - Riverside    | 293             | 77                 | 56                | 305             | 70                 | 51                |
| Public                                                                  | University of California - San Diego    | 528             | 30                 | 20                | 515             | 33                 | 22                |
| Public                                                                  | Univ. of California - San Francisco     | 131             | 145                | 100               | 135             | 139                | 98                |
| Public                                                                  | Univ. of California - Santa Barbara     | 327             | 66                 | 49                | 361             | 55                 | 39                |
| Public                                                                  | University of California - Santa Cruz   | 192             | 114                | 81                | 159             | 127                | 88                |
| Public                                                                  | University of Central Florida           | 251             | 83                 | 61                | 277             | 77                 | 56                |
| Private                                                                 | University of Chicago                   | 423             | 43                 | 15                | 439             | 41                 | 13                |
| Public                                                                  | University of Cincinnati - Cincinnati   | 250             | 84                 | 62                | 244             | 88                 | 62                |
| Public                                                                  | University of Colorado - Boulder        | 409             | 47                 | 32                | 407             | 48                 | 33                |
| Public                                                                  | U. of Colorado - Denver/Anschutz Med.   | 206             | 107                | 76                | 128             | 146                | 102               |
| Public                                                                  | University of Connecticut - Health Ctr. | 30              | 335                | 194               | 26              | 348                | 195               |
| Public                                                                  | University of Connecticut - Storrs      | 334             | 64                 | 48                | 316             | 67                 | 48                |
| Private                                                                 | University of Dayton                    | 46              | 280                | 109               | 41              | 290                | 115               |
| Public                                                                  | University of Delaware                  | 263             | 80                 | 59                | 258             | 84                 | 58                |
| Public                                                                  | University of Florida                   | 750             | 12                 | 9                 | 772             | 7                  | 7                 |
| Public                                                                  | University of Georgia                   | 488             | 36                 | 24                | 546             | 28                 | 19                |
| Public                                                                  | University of Hawaii - Manoa            | 206             | 107                | 76                | 204             | 103                | 71                |

| 2017<br>Doctorates | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Doctorates | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Doctorates | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|--------------------|--------------------------|-------------------------|--------------------|--------------------------|-------------------------|--------------------|--------------------------|-------------------------|
| 276                | 78                       | 57                      | 214                | 95                       | 68                      | 215                | 94                       | 69                      |
| 21                 | 365                      | 206                     | 24                 | 344                      | 198                     | 26                 | 330                      | 197                     |
| 695                | 15                       | 12                      | 659                | 16                       | 12                      | 673                | 17                       | 14                      |
| 358                | 53                       | 16                      | 373                | 50                       | 17                      | 371                | 51                       | 17                      |
| 746                | 11                       | 9                       | 727                | 8                        | 7                       | 717                | 12                       | 11                      |
| 122                | 150                      | 46                      | 142                | 132                      | 41                      | 164                | 119                      | 34                      |
| 215                | 98                       | 29                      | 211                | 97                       | 29                      | 176                | 113                      | 33                      |
| 23                 | 356                      | 156                     | 31                 | 316                      | 129                     | 28                 | 320                      | 127                     |
| 13                 | 435                      | 200                     | 20                 | 376                      | 162                     | 17                 | 382                      | 162                     |
| 636                | 19                       | 14                      | 620                | 19                       | 14                      | 597                | 21                       | 16                      |
|                    |                          |                         |                    |                          |                         |                    |                          |                         |
| 752                | 10                       | 2                       | 763                | 7                        | 1                       | 688                | 13                       | 2                       |
| 0                  | 641                      | 287                     | 1                  | 598                      | 276                     | 0                  | 622                      | 288                     |
| 317                | 64                       | 46                      | 350                | 53                       | 36                      | 347                | 57                       | 40                      |
| 274                | 79                       | 58                      | 256                | 82                       | 60                      | 197                | 101                      | 72                      |
| 761                | 9                        | 8                       | 705                | 13                       | 10                      | 740                | 10                       | 9                       |
| 30                 | 335                      | 142                     | 13                 | 427                      | 195                     | 21                 | 352                      | 143                     |
| 139                | 133                      | 40                      | 135                | 136                      | 43                      | 116                | 153                      | 47                      |
| 146                | 130                      | 39                      | 135                | 136                      | 43                      | 123                | 147                      | 45                      |
|                    |                          |                         |                    |                          |                         |                    |                          |                         |
| 167                | 121                      | 84                      | 193                | 104                      | 73                      | 164                | 119                      | 86                      |
| 343                | 56                       | 40                      | 340                | 57                       | 40                      | 342                | 58                       | 41                      |
| 126                | 144                      | 101                     | 149                | 127                      | 89                      | 170                | 115                      | 82                      |
| 41                 | 291                      | 178                     | 34                 | 305                      | 184                     | 33                 | 294                      | 181                     |
| 49                 | 261                      | 165                     | 47                 | 264                      | 168                     | 40                 | 273                      | 173                     |
| 442                | 41                       | 28                      | 524                | 32                       | 22                      | 528                | 28                       | 20                      |
| 168                | 120                      | 83                      | 178                | 112                      | 78                      | 173                | 114                      | 81                      |
| 41                 | 291                      | 178                     | 48                 | 258                      | 165                     | 38                 | 281                      | 176                     |
| 818                | 5                        | 5                       | 576                | 23                       | 16                      | 826                | 6                        | 6                       |
| 517                | 31                       | 22                      | 513                | 34                       | 24                      | 553                | 25                       | 18                      |
| 403                | 45                       | 32                      | 393                | 47                       | 32                      | 390                | 49                       | 33                      |
| 770                | 8                        | 7                       | 775                | 6                        | 6                       | 774                | 7                        | 7                       |
| 268                | 80                       | 59                      | 239                | 87                       | 64                      | 272                | 75                       | 55                      |
| 531                | 30                       | 21                      | 529                | 29                       | 20                      | 505                | 32                       | 24                      |
| 138                | 134                      | 94                      | 123                | 149                      | 100                     | 130                | 139                      | 98                      |
| 321                | 63                       | 45                      | 346                | 54                       | 37                      | 349                | 56                       | 39                      |
| 167                | 121                      | 84                      | 174                | 114                      | 79                      | 151                | 124                      | 88                      |
| 279                | 77                       | 56                      | 299                | 75                       | 55                      | 286                | 72                       | 52                      |
| 395                | 47                       | 14                      | 396                | 46                       | 15                      | 392                | 48                       | 16                      |
| 233                | 92                       | 66                      | 284                | 77                       | 57                      | 213                | 96                       | 70                      |
| 408                | 44                       | 31                      | 410                | 45                       | 31                      | 434                | 43                       | 30                      |
| 132                | 138                      | 97                      | 123                | 149                      | 100                     | 103                | 168                      | 114                     |
| 33                 | 324                      | 193                     | 27                 | 335                      | 196                     | 16                 | 389                      | 221                     |
| 328                | 61                       | 43                      | 309                | 70                       | 51                      | 323                | 66                       | 47                      |
| 39                 | 301                      | 118                     | 39                 | 291                      | 111                     | 34                 | 290                      | 110                     |
| 254                | 85                       | 63                      | 283                | 78                       | 58                      | 237                | 88                       | 64                      |
| 728                | 12                       | 10                      | 723                | 10                       | 9                       | 754                | 8                        | 8                       |
| 543                | 28                       | 19                      | 526                | 31                       | 21                      | 467                | 37                       | 26                      |
| 190                | 111                      | 77                      | 204                | 101                      | 71                      | 239                | 87                       | 63                      |

| Doctorates Awarded                                                      |                                       |                 |                    |                   |                 |                    |                   |
|-------------------------------------------------------------------------|---------------------------------------|-----------------|--------------------|-------------------|-----------------|--------------------|-------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2019 Doctorates | 2019 National Rank | 2019 Control Rank | 2018 Doctorates | 2018 National Rank | 2018 Control Rank |
| Public                                                                  | University of Houston - Univ. Park    | 346             | 59                 | 43                | 389             | 51                 | 35                |
| Public                                                                  | University of Idaho                   | 54              | 257                | 160               | 47              | 274                | 169               |
| Public                                                                  | University of Illinois - Chicago      | 343             | 60                 | 44                | 349             | 58                 | 41                |
| Public                                                                  | Univ. of Illinois - Urbana-Champaign  | 814             | 7                  | 6                 | 816             | 5                  | 5                 |
| Public                                                                  | University of Iowa                    | 418             | 45                 | 30                | 452             | 38                 | 27                |
| Public                                                                  | University of Kansas - Lawrence       | 317             | 70                 | 51                | 325             | 64                 | 47                |
| Public                                                                  | University of Kansas Medical Center   | 39              | 303                | 180               | 41              | 290                | 176               |
| Public                                                                  | University of Kentucky                | 337             | 63                 | 47                | 309             | 69                 | 50                |
| Public                                                                  | University of Louisville              | 165             | 124                | 88                | 164             | 119                | 84                |
| Public                                                                  | University of Maine - Orono           | 69              | 226                | 146               | 55              | 246                | 154               |
| Public                                                                  | University of Maryland - Baltimore    | 73              | 221                | 141               | 88              | 194                | 128               |
| Public                                                                  | Univ. of Maryland - Baltimore County  | 81              | 207                | 133               | 94              | 181                | 120               |
| Public                                                                  | University of Maryland - College Park | 612             | 21                 | 16                | 641             | 22                 | 15                |
| Public                                                                  | Univ. of Massachusetts - Amherst      | 350             | 58                 | 42                | 295             | 74                 | 54                |
| Public                                                                  | Univ. of Mass. Med. Sch. - Worcester  | 52              | 262                | 162               | 68              | 224                | 143               |
| Private                                                                 | University of Miami                   | 195             | 112                | 33                | 212             | 99                 | 29                |
| Public                                                                  | University of Michigan - Ann Arbor    | 827             | 6                  | 5                 | 874             | 1                  | 1                 |
| Public                                                                  | University of Minnesota - Twin Cities | 751             | 11                 | 8                 | 702             | 16                 | 12                |
| Public                                                                  | University of Missouri - Columbia     | 426             | 42                 | 28                | 501             | 34                 | 23                |
| Public                                                                  | University of Montana - Missoula      | 51              | 264                | 163               | 39              | 295                | 179               |
| Public                                                                  | University of Nebraska - Lincoln      | 316             | 71                 | 52                | 283             | 75                 | 55                |
| Public                                                                  | University of Nebraska Medical Ctr.   | 74              | 217                | 139               | 65              | 230                | 148               |
| Public                                                                  | University of Nevada - Reno           | 123             | 157                | 106               | 134             | 140                | 99                |
| Public                                                                  | Univ. of New Hampshire - Durham       | 77              | 212                | 137               | 76              | 209                | 133               |
| Public                                                                  | Univ. of New Mexico - Albuquerque     | 220             | 99                 | 70                | 198             | 106                | 74                |
| Public                                                                  | Univ. of North Carolina - Chapel Hill | 514             | 33                 | 22                | 501             | 34                 | 23                |
| Public                                                                  | University of North Dakota            | 83              | 205                | 131               | 74              | 211                | 135               |
| Private                                                                 | University of Notre Dame              | 242             | 90                 | 25                | 281             | 76                 | 21                |
| Public                                                                  | University of Oklahoma - HSC          | 19              | 399                | 223               | 25              | 353                | 197               |
| Public                                                                  | University of Oklahoma - Norman       | 233             | 92                 | 66                | 239             | 91                 | 65                |
| Public                                                                  | University of Oregon                  | 183             | 117                | 82                | 182             | 112                | 78                |
| Private                                                                 | University of Pennsylvania            | 548             | 26                 | 8                 | 551             | 27                 | 9                 |
| Public                                                                  | University of Pittsburgh - Pittsburgh | 391             | 51                 | 35                | 419             | 46                 | 31                |
| Public                                                                  | University of Rhode Island            | 106             | 172                | 114               | 110             | 168                | 116               |
| Private                                                                 | University of Rochester               | 253             | 82                 | 22                | 261             | 82                 | 26                |
| Public                                                                  | Univ. of South Carolina - Columbia    | 431             | 39                 | 27                | 388             | 52                 | 36                |
| Public                                                                  | University of South Florida - Tampa   | 373             | 55                 | 39                | 374             | 54                 | 38                |
| Private                                                                 | University of Southern California     | 917             | 1                  | 1                 | 762             | 9                  | 2                 |
| Public                                                                  | University of Tennessee - Knoxville   | 383             | 53                 | 37                | 393             | 50                 | 34                |
| Public                                                                  | University of Texas - Austin          | 873             | 4                  | 3                 | 855             | 3                  | 3                 |
| Public                                                                  | University of Texas - El Paso         | 101             | 175                | 116               | 92              | 187                | 125               |
| Public                                                                  | University of Texas HSC - Houston     | 211             | 102                | 73                | 178             | 115                | 80                |
| Public                                                                  | Univ. of Texas HSC - San Antonio      | 42              | 291                | 173               | 48              | 269                | 167               |
| Public                                                                  | U. of Texas MD Anderson Cancer Ctr.   |                 |                    |                   |                 |                    |                   |
| Public                                                                  | U. of Texas Med. Branch - Galveston   | 37              | 312                | 185               | 40              | 294                | 178               |
| Public                                                                  | Univ. of Texas SW Med. Ctr. - Dallas  | 99              | 180                | 119               | 78              | 207                | 132               |
| Public                                                                  | University of Utah                    | 376             | 54                 | 38                | 346             | 60                 | 43                |
| Public                                                                  | University of Vermont                 | 100             | 177                | 118               | 66              | 227                | 145               |
| Public                                                                  | University of Virginia                | 343             | 60                 | 44                | 360             | 56                 | 40                |

# The Top American Research Universities

| 2017<br>Doctorates | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Doctorates | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Doctorates | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|--------------------|--------------------------|-------------------------|--------------------|--------------------------|-------------------------|--------------------|--------------------------|-------------------------|
| 358                | 53                       | 38                      | 358                | 51                       | 34                      | 326                | 64                       | 45                      |
| 54                 | 243                      | 156                     | 69                 | 210                      | 139                     | 80                 | 201                      | 134                     |
| 370                | 51                       | 36                      | 346                | 54                       | 37                      | 314                | 68                       | 49                      |
| 827                | 2                        | 2                       | 726                | 9                        | 8                       | 829                | 5                        | 5                       |
| 464                | 38                       | 27                      | 468                | 39                       | 27                      | 453                | 38                       | 27                      |
| 310                | 68                       | 50                      | 314                | 67                       | 48                      | 365                | 53                       | 36                      |
| 43                 | 281                      | 173                     | 22                 | 360                      | 207                     | 25                 | 336                      | 199                     |
| 326                | 62                       | 44                      | 313                | 69                       | 50                      | 295                | 69                       | 50                      |
| 158                | 124                      | 87                      | 147                | 128                      | 90                      | 170                | 115                      | 82                      |
| 58                 | 234                      | 152                     | 60                 | 226                      | 147                     | 69                 | 216                      | 143                     |
| 88                 | 185                      | 126                     | 67                 | 213                      | 141                     | 81                 | 199                      | 132                     |
| 88                 | 185                      | 126                     | 82                 | 193                      | 129                     | 100                | 170                      | 116                     |
| 567                | 24                       | 16                      | 592                | 20                       | 15                      | 654                | 18                       | 15                      |
| 307                | 69                       | 51                      | 298                | 76                       | 56                      | 268                | 76                       | 56                      |
| 57                 | 235                      | 153                     | 64                 | 220                      | 145                     | 61                 | 230                      | 152                     |
| 209                | 101                      | 31                      | 216                | 93                       | 26                      | 208                | 98                       | 28                      |
| 820                | 4                        | 4                       | 848                | 3                        | 3                       | 882                | 2                        | 2                       |
| 702                | 14                       | 11                      | 804                | 5                        | 5                       | 725                | 11                       | 10                      |
| 500                | 36                       | 25                      | 416                | 43                       | 30                      | 435                | 42                       | 29                      |
| 56                 | 237                      | 154                     | 66                 | 214                      | 142                     | 50                 | 253                      | 163                     |
| 299                | 71                       | 53                      | 307                | 71                       | 52                      | 325                | 65                       | 46                      |
| 70                 | 213                      | 141                     | 86                 | 187                      | 125                     | 81                 | 199                      | 132                     |
| 117                | 155                      | 106                     | 130                | 140                      | 96                      | 109                | 158                      | 108                     |
| 62                 | 227                      | 149                     | 66                 | 214                      | 142                     | 75                 | 211                      | 140                     |
| 195                | 108                      | 75                      | 200                | 103                      | 72                      | 222                | 91                       | 67                      |
| 566                | 25                       | 17                      | 542                | 24                       | 17                      | 519                | 30                       | 22                      |
| 91                 | 180                      | 123                     | 76                 | 202                      | 135                     | 87                 | 187                      | 125                     |
| 239                | 90                       | 26                      | 216                | 93                       | 26                      | 244                | 83                       | 23                      |
| 44                 | 278                      | 171                     | 29                 | 325                      | 190                     | 29                 | 314                      | 191                     |
| 213                | 99                       | 70                      | 210                | 98                       | 69                      | 218                | 93                       | 68                      |
| 200                | 105                      | 73                      | 159                | 118                      | 83                      | 199                | 100                      | 71                      |
| 589                | 22                       | 7                       | 540                | 25                       | 8                       | 566                | 23                       | 6                       |
| 416                | 43                       | 30                      | 461                | 41                       | 28                      | 438                | 39                       | 28                      |
| 100                | 171                      | 117                     | 97                 | 175                      | 118                     | 93                 | 181                      | 122                     |
| 249                | 88                       | 25                      | 301                | 74                       | 20                      | 267                | 77                       | 21                      |
| 317                | 64                       | 46                      | 317                | 65                       | 46                      | 358                | 54                       | 37                      |
| 332                | 60                       | 42                      | 314                | 67                       | 48                      | 321                | 67                       | 48                      |
| 679                | 17                       | 5                       | 714                | 11                       | 2                       | 685                | 16                       | 3                       |
| 381                | 48                       | 34                      | 356                | 52                       | 35                      | 353                | 55                       | 38                      |
| 827                | 2                        | 2                       | 896                | 1                        | 1                       | 899                | 1                        | 1                       |
| 106                | 163                      | 112                     | 78                 | 198                      | 132                     | 124                | 144                      | 100                     |
| 132                | 138                      | 97                      | 113                | 161                      | 110                     | 153                | 123                      | 87                      |
| 43                 | 281                      | 173                     | 59                 | 228                      | 148                     | 66                 | 223                      | 148                     |
|                    |                          |                         |                    |                          |                         |                    |                          |                         |
| 49                 | 261                      | 165                     | 52                 | 249                      | 159                     | 39                 | 278                      | 174                     |
| 98                 | 176                      | 120                     | 98                 | 173                      | 117                     | 88                 | 186                      | 124                     |
| 339                | 57                       | 41                      | 331                | 58                       | 41                      | 384                | 50                       | 34                      |
| 69                 | 214                      | 142                     | 78                 | 198                      | 132                     | 79                 | 204                      | 136                     |
| 361                | 52                       | 37                      | 315                | 66                       | 47                      | 366                | 52                       | 35                      |

| Doctorates Awarded                                                      |                                       |                    |                          |                         |                    |                          |                         |
|-------------------------------------------------------------------------|---------------------------------------|--------------------|--------------------------|-------------------------|--------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2019<br>Doctorates | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>Doctorates | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                  | University of Washington - Seattle    | 729                | 16                       | 13                      | 633                | 23                       | 16                      |
| Public                                                                  | University of Wisconsin - Madison     | 829                | 5                        | 4                       | 805                | 6                        | 6                       |
| Public                                                                  | University of Wyoming                 | 106                | 172                      | 114                     | 113                | 161                      | 112                     |
| Public                                                                  | Utah State University                 | 113                | 169                      | 113                     | 99                 | 177                      | 117                     |
| Private                                                                 | Vanderbilt University                 | 319                | 69                       | 19                      | 324                | 65                       | 18                      |
| Public                                                                  | Virginia Commonwealth University      | 353                | 57                       | 41                      | 326                | 63                       | 46                      |
| Public                                                                  | Virginia Polytechnic Inst. and St. U. | 469                | 37                       | 25                      | 472                | 37                       | 26                      |
| Private                                                                 | Wake Forest University                | 54                 | 257                      | 98                      | 36                 | 304                      | 122                     |
| Public                                                                  | Washington State Univ. - Pullman      | 312                | 72                       | 53                      | 336                | 61                       | 44                      |
| Private                                                                 | Washington University in St. Louis    | 302                | 73                       | 20                      | 262                | 81                       | 25                      |
| Public                                                                  | Wayne State University                | 216                | 100                      | 71                      | 223                | 95                       | 68                      |
| Private                                                                 | Weill Cornell Medical College         | 77                 | 212                      | 76                      | 56                 | 245                      | 92                      |
| Public                                                                  | West Virginia University              | 194                | 113                      | 80                      | 190                | 108                      | 75                      |
| Private                                                                 | Woods Hole Oceanographic Inst.        |                    |                          |                         |                    |                          |                         |
| Public                                                                  | Wright State University - Dayton      | 39                 | 303                      | 180                     | 39                 | 295                      | 179                     |
| Private                                                                 | Yale University                       | 430                | 40                       | 13                      | 433                | 43                       | 15                      |
| Private                                                                 | Yeshiva University                    | 91                 | 193                      | 67                      | 101                | 172                      | 56                      |

| 2017<br>Doctorates | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>Doctorates | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Doctorates | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|--------------------|--------------------------|-------------------------|--------------------|--------------------------|-------------------------|--------------------|--------------------------|-------------------------|
| 624                | 20                       | 15                      | 632                | 18                       | 13                      | 687                | 14                       | 12                      |
| 876                | 1                        | 1                       | 870                | 2                        | 2                       | 857                | 3                        | 3                       |
| 106                | 163                      | 112                     | 99                 | 171                      | 116                     | 93                 | 181                      | 122                     |
| 95                 | 177                      | 121                     | 94                 | 179                      | 121                     | 102                | 169                      | 115                     |
| 337                | 58                       | 17                      | 322                | 62                       | 19                      | 340                | 59                       | 18                      |
| 306                | 70                       | 52                      | 306                | 72                       | 53                      | 282                | 73                       | 53                      |
| 516                | 32                       | 23                      | 492                | 36                       | 25                      | 488                | 33                       | 25                      |
| 64                 | 222                      | 76                      | 58                 | 230                      | 81                      | 53                 | 248                      | 89                      |
| 315                | 66                       | 48                      | 322                | 62                       | 44                      | 281                | 74                       | 54                      |
| 288                | 73                       | 19                      | 266                | 80                       | 21                      | 292                | 70                       | 20                      |
| 268                | 80                       | 59                      | 222                | 92                       | 67                      | 242                | 84                       | 61                      |
| 54                 | 243                      | 88                      | 58                 | 230                      | 81                      | 68                 | 220                      | 74                      |
| 239                | 90                       | 65                      | 210                | 98                       | 69                      | 183                | 109                      | 78                      |
|                    |                          |                         |                    |                          |                         |                    |                          |                         |
| 50                 | 258                      | 162                     | 51                 | 252                      | 162                     | 32                 | 298                      | 183                     |
| 375                | 49                       | 15                      | 411                | 44                       | 14                      | 426                | 45                       | 15                      |
| 102                | 168                      | 52                      | 152                | 122                      | 37                      | 96                 | 177                      | 59                      |

| Postdoctoral Appointees                                                    |                                        |                  |                          |                         |                  |                          |                         |
|----------------------------------------------------------------------------|----------------------------------------|------------------|--------------------------|-------------------------|------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                        | 2018<br>Postdocs | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Postdocs | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                     | Arizona State University               | 331              | 56                       | 32                      | 288              | 63                       | 39                      |
| Public                                                                     | Auburn University                      | 67               | 147                      | 97                      | 70               | 143                      | 94                      |
| Public                                                                     | Augusta University                     | 77               | 140                      | 90                      | 100              | 123                      | 79                      |
| Private                                                                    | Baylor College of Medicine             | 506              | 36                       | 19                      | 533              | 36                       | 18                      |
| Private                                                                    | Boston University                      | 367              | 50                       | 24                      | 348              | 49                       | 24                      |
| Private                                                                    | Brown University                       | 228              | 78                       | 29                      | 232              | 77                       | 28                      |
| Private                                                                    | California Institute of Technology     | 617              | 28                       | 15                      | 629              | 26                       | 12                      |
| Private                                                                    | Carnegie Mellon University             | 224              | 79                       | 30                      | 259              | 71                       | 26                      |
| Private                                                                    | Case Western Reserve University        | 189              | 92                       | 34                      | 191              | 93                       | 34                      |
| Public                                                                     | Clemson University                     | 91               | 132                      | 84                      | 94               | 129                      | 83                      |
| Public                                                                     | Cleveland State University             | 4                | 293                      | 196                     | 4                | 293                      | 195                     |
| Private                                                                    | Cold Spring Harbor Laboratory          | 168              | 96                       | 35                      | 163              | 101                      | 37                      |
| Public                                                                     | Colorado State Univ. - Fort Collins    | 269              | 68                       | 44                      | 267              | 70                       | 45                      |
| Private                                                                    | Columbia University                    | 1,294            | 6                        | 5                       | 1,272            | 6                        | 5                       |
| Private                                                                    | Cornell University                     | 525              | 34                       | 18                      | 460              | 42                       | 20                      |
| Private                                                                    | Dartmouth College                      | 151              | 101                      | 37                      | 168              | 99                       | 35                      |
| Private                                                                    | Drexel University                      | 88               | 135                      | 50                      | 90               | 132                      | 48                      |
| Private                                                                    | Duke University                        | 671              | 22                       | 11                      | 600              | 29                       | 14                      |
| Private                                                                    | Emory University                       | 540              | 33                       | 17                      | 538              | 35                       | 17                      |
| Public                                                                     | Florida International University       | 242              | 73                       | 46                      | 222              | 82                       | 54                      |
| Public                                                                     | Florida State University               | 242              | 73                       | 46                      | 225              | 80                       | 52                      |
| Public                                                                     | George Mason University                | 36               | 183                      | 126                     | 30               | 189                      | 130                     |
| Private                                                                    | George Washington University           | 95               | 128                      | 46                      | 93               | 131                      | 47                      |
| Private                                                                    | Georgetown University                  | 112              | 122                      | 44                      | 97               | 127                      | 46                      |
| Public                                                                     | Georgia Institute of Technology        | 373              | 49                       | 26                      | 289              | 62                       | 38                      |
| Public                                                                     | Georgia State University               | 93               | 131                      | 83                      | 87               | 133                      | 85                      |
| Private                                                                    | Harvard University                     | 6,024            | 1                        | 1                       | 6,023            | 1                        | 1                       |
| Private                                                                    | Icahn School of Med. at Mount Sinai    | 676              | 21                       | 10                      | 668              | 21                       | 9                       |
| Public                                                                     | Indiana University - Bloomington       | 399              | 48                       | 25                      | 427              | 47                       | 24                      |
| Public                                                                     | Iowa State University                  | 323              | 58                       | 34                      | 326              | 54                       | 30                      |
| Private                                                                    | Johns Hopkins University               | 1,786            | 3                        | 3                       | 1,768            | 3                        | 3                       |
| Public                                                                     | Kansas State University                | 133              | 111                      | 71                      | 197              | 92                       | 59                      |
| Public                                                                     | Louisiana State Univ. - Baton Rouge    | 132              | 112                      | 72                      | 126              | 113                      | 73                      |
| Private                                                                    | Massachusetts Inst. of Technology      | 1,413            | 4                        | 4                       | 1,423            | 4                        | 4                       |
| Private                                                                    | Medical College of Wisconsin           | 132              | 112                      | 41                      | 126              | 113                      | 41                      |
| Public                                                                     | Medical University of South Carolina   | 152              | 100                      | 64                      | 172              | 97                       | 63                      |
| Public                                                                     | Michigan State University              | 559              | 32                       | 16                      | 555              | 33                       | 18                      |
| Public                                                                     | Mississippi State University           | 46               | 166                      | 112                     | 48               | 162                      | 110                     |
| Public                                                                     | Montana State University - Bozeman     | 48               | 163                      | 111                     | 47               | 164                      | 112                     |
| Public                                                                     | Naval Postgraduate School              | 13               | 238                      | 164                     | 16               | 227                      | 157                     |
| Public                                                                     | New Jersey Institute of Technology     | 33               | 194                      | 134                     | 25               | 206                      | 141                     |
| Public                                                                     | New Mexico State Univ. - Las Cruces    | 26               | 206                      | 143                     | 24               | 210                      | 145                     |
| Private                                                                    | New York University                    | 753              | 17                       | 9                       | 666              | 22                       | 10                      |
| Public                                                                     | North Carolina State University        | 499              | 37                       | 18                      | 517              | 37                       | 19                      |
| Private                                                                    | Northeastern University                | 154              | 98                       | 36                      | 164              | 100                      | 36                      |
| Private                                                                    | Northwestern University                | 920              | 15                       | 8                       | 989              | 15                       | 8                       |
| Public                                                                     | Ohio State University - Columbus       | 665              | 24                       | 12                      | 659              | 23                       | 13                      |
| Public                                                                     | Oklahoma State University - Stillwater | 52               | 158                      | 106                     | 53               | 158                      | 107                     |
| Public                                                                     | Oregon Health & Science University     | 286              | 64                       | 40                      | 284              | 66                       | 42                      |

# The Top American Research Universities

| 2016<br>Postdocs | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Postdocs | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Postdocs | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|------------------|--------------------------|-------------------------|------------------|--------------------------|-------------------------|------------------|--------------------------|-------------------------|
| 251              | 73                       | 45                      | 257              | 71                       | 42                      | 253              | 68                       | 42                      |
| 55               | 155                      | 104                     | 40               | 175                      | 121                     | 40               | 175                      | 121                     |
| 166              | 98                       | 64                      | 159              | 98                       | 64                      | 188              | 91                       | 57                      |
| 522              | 36                       | 19                      | 537              | 37                       | 19                      | 594              | 31                       | 16                      |
| 328              | 58                       | 24                      | 421              | 46                       | 23                      | 444              | 45                       | 23                      |
| 305              | 60                       | 25                      | 252              | 74                       | 30                      | 244              | 71                       | 27                      |
| 601              | 32                       | 16                      | 552              | 35                       | 18                      | 552              | 34                       | 18                      |
| 220              | 83                       | 31                      | 193              | 90                       | 33                      | 215              | 81                       | 30                      |
| 261              | 71                       | 28                      | 271              | 66                       | 27                      | 190              | 90                       | 34                      |
| 86               | 134                      | 87                      | 77               | 140                      | 92                      | 65               | 144                      | 95                      |
| 4                | 300                      | 201                     | 3                | 310                      | 208                     | 3                | 314                      | 211                     |
| 151              | 104                      | 38                      | 143              | 104                      | 36                      | 153              | 104                      | 38                      |
| 249              | 74                       | 46                      | 254              | 73                       | 44                      | 297              | 63                       | 37                      |
| 1,219            | 8                        | 5                       | 1,249            | 7                        | 5                       | 1,274            | 6                        | 5                       |
| 444              | 45                       | 22                      | 502              | 39                       | 21                      | 466              | 39                       | 21                      |
| 176              | 95                       | 34                      | 204              | 87                       | 32                      | 222              | 78                       | 28                      |
| 85               | 135                      | 48                      | 93               | 130                      | 46                      | 74               | 140                      | 49                      |
| 587              | 33                       | 17                      | 584              | 31                       | 15                      | 656              | 23                       | 11                      |
| 641              | 23                       | 10                      | 642              | 24                       | 11                      | 674              | 20                       | 9                       |
| 211              | 90                       | 59                      | 75               | 142                      | 94                      | 64               | 146                      | 97                      |
| 218              | 86                       | 55                      | 202              | 88                       | 56                      | 211              | 83                       | 53                      |
| 44               | 171                      | 115                     | 44               | 168                      | 115                     | 33               | 186                      | 130                     |
| 99               | 127                      | 46                      | 111              | 119                      | 42                      | 94               | 133                      | 47                      |
| 104              | 123                      | 44                      | 109              | 120                      | 43                      | 127              | 116                      | 40                      |
| 284              | 64                       | 39                      | 237              | 77                       | 47                      | 217              | 80                       | 51                      |
| 73               | 140                      | 91                      | 76               | 141                      | 93                      | 76               | 139                      | 91                      |
| 5,873            | 1                        | 1                       | 5,674            | 1                        | 1                       | 5,761            | 1                        | 1                       |
| 635              | 25                       | 11                      | 643              | 23                       | 10                      | 670              | 21                       | 10                      |
| 404              | 47                       | 25                      | 365              | 50                       | 27                      | 144              | 108                      | 69                      |
| 308              | 59                       | 35                      | 299              | 59                       | 35                      | 331              | 55                       | 32                      |
| 1,697            | 3                        | 3                       | 1,679            | 3                        | 3                       | 1,715            | 3                        | 3                       |
| 102              | 125                      | 80                      | 146              | 101                      | 66                      | 142              | 111                      | 72                      |
| 119              | 119                      | 77                      | 148              | 100                      | 65                      | 141              | 112                      | 73                      |
| 1,503            | 4                        | 4                       | 1,493            | 4                        | 4                       | 1,516            | 4                        | 4                       |
| 104              | 123                      | 44                      | 66               | 145                      | 49                      | 175              | 94                       | 35                      |
| 173              | 96                       | 62                      | 178              | 93                       | 59                      | 173              | 95                       | 60                      |
| 522              | 36                       | 18                      | 471              | 44                       | 22                      | 450              | 43                       | 21                      |
| 40               | 173                      | 116                     | 51               | 157                      | 106                     | 46               | 166                      | 114                     |
| 47               | 167                      | 112                     | 51               | 157                      | 106                     | 38               | 178                      | 124                     |
| 19               | 226                      | 153                     | 22               | 219                      | 153                     | 16               | 227                      | 160                     |
| 34               | 185                      | 127                     | 42               | 171                      | 117                     | 24               | 202                      | 142                     |
| 17               | 234                      | 160                     | 24               | 212                      | 147                     | 28               | 195                      | 137                     |
| 647              | 22                       | 9                       | 680              | 20                       | 9                       | 596              | 30                       | 15                      |
| 485              | 41                       | 21                      | 497              | 40                       | 19                      | 473              | 38                       | 18                      |
| 149              | 105                      | 39                      | 114              | 117                      | 41                      | 117              | 122                      | 43                      |
| 813              | 17                       | 8                       | 746              | 19                       | 8                       | 708              | 18                       | 8                       |
| 638              | 24                       | 14                      | 619              | 27                       | 15                      | 629              | 28                       | 15                      |
| 53               | 158                      | 107                     | 53               | 155                      | 105                     | 57               | 150                      | 100                     |
| 304              | 61                       | 36                      | 292              | 61                       | 37                      | 270              | 65                       | 39                      |

| Postdoctoral Appointees                                                    |                                         |                  |                          |                         |                  |                          |                         |
|----------------------------------------------------------------------------|-----------------------------------------|------------------|--------------------------|-------------------------|------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                         | 2018<br>Postdocs | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Postdocs | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                     | Oregon State University                 | 222              | 80                       | 50                      | 236              | 76                       | 49                      |
| Public                                                                     | Penn. State Univ. - Hershey Med. Ctr.   | 57               | 154                      | 104                     | 82               | 136                      | 88                      |
| Public                                                                     | Pennsylvania State Univ. - Univ. Park   | 344              | 53                       | 29                      | 317              | 56                       | 32                      |
| Private                                                                    | Princeton University                    | 621              | 27                       | 14                      | 592              | 30                       | 15                      |
| Public                                                                     | Purdue University - West Lafayette      | 424              | 45                       | 22                      | 385              | 48                       | 25                      |
| Private                                                                    | Rensselaer Polytechnic Institute        | 94               | 129                      | 47                      | 73               | 141                      | 49                      |
| Private                                                                    | Rice University                         | 207              | 87                       | 33                      | 200              | 91                       | 33                      |
| Private                                                                    | Rockefeller University                  | 261              | 69                       | 25                      | 277              | 67                       | 25                      |
| Private                                                                    | Rush University                         | 97               | 127                      | 45                      | 35               | 179                      | 58                      |
| Public                                                                     | Rutgers University - New Brunswick      | 290              | 61                       | 37                      | 306              | 57                       | 33                      |
| Private                                                                    | Scripps Research Institute              | 565              | 31                       | 16                      | 554              | 34                       | 16                      |
| Private                                                                    | Stanford University                     | 2,304            | 2                        | 2                       | 2,266            | 2                        | 2                       |
| Public                                                                     | State Univ. of NY - Polytechnic Inst.   | 8                | 263                      | 180                     | 8                | 266                      | 182                     |
| Public                                                                     | Stony Brook University                  | 274              | 67                       | 43                      | 271              | 68                       | 43                      |
| Public                                                                     | Temple University                       | 170              | 94                       | 60                      | 162              | 102                      | 65                      |
| Public                                                                     | Texas A&M Univ. - College Station       | 508              | 35                       | 17                      | 601              | 28                       | 15                      |
| Private                                                                    | Thomas Jefferson University             | 136              | 107                      | 39                      | 123              | 115                      | 42                      |
| Private                                                                    | Tufts University                        | 258              | 72                       | 27                      | 206              | 87                       | 32                      |
| Private                                                                    | Tulane University                       | 115              | 118                      | 43                      | 118              | 120                      | 43                      |
| Public                                                                     | Uniformed Services Univ. of the HS      | 44               | 168                      | 114                     | 33               | 183                      | 124                     |
| Public                                                                     | University at Albany                    | 88               | 135                      | 86                      | 73               | 141                      | 93                      |
| Public                                                                     | University at Buffalo                   | 277              | 66                       | 42                      | 287              | 65                       | 41                      |
| Public                                                                     | University of Alabama - Birmingham      | 234              | 77                       | 49                      | 270              | 69                       | 44                      |
| Public                                                                     | University of Alabama - Huntsville      | 15               | 231                      | 159                     | 14               | 241                      | 167                     |
| Public                                                                     | University of Alaska - Fairbanks        | 30               | 201                      | 140                     | 35               | 179                      | 122                     |
| Public                                                                     | University of Arizona                   | 497              | 38                       | 19                      | 485              | 41                       | 22                      |
| Public                                                                     | University of Arkansas - Fayetteville   | 63               | 150                      | 100                     | 62               | 149                      | 98                      |
| Public                                                                     | Univ. of Arkansas for Med. Sciences     | 74               | 143                      | 93                      | 80               | 139                      | 91                      |
| Public                                                                     | University of California - Berkeley     | 1,208            | 8                        | 3                       | 1,146            | 8                        | 3                       |
| Public                                                                     | University of California - Davis        | 885              | 16                       | 8                       | 831              | 17                       | 9                       |
| Public                                                                     | University of California - Irvine       | 341              | 54                       | 30                      | 345              | 50                       | 26                      |
| Public                                                                     | University of California - Los Angeles  | 932              | 14                       | 7                       | 1,107            | 9                        | 4                       |
| Public                                                                     | University of California - Riverside    | 216              | 85                       | 53                      | 223              | 81                       | 53                      |
| Public                                                                     | University of California - San Diego    | 1,267            | 7                        | 2                       | 1,255            | 7                        | 2                       |
| Public                                                                     | Univ. of California - San Francisco     | 1,111            | 12                       | 5                       | 1,077            | 11                       | 5                       |
| Public                                                                     | Univ. of California - Santa Barbara     | 315              | 59                       | 35                      | 318              | 55                       | 31                      |
| Public                                                                     | University of California - Santa Cruz   | 135              | 110                      | 70                      | 136              | 111                      | 71                      |
| Public                                                                     | University of Central Florida           | 146              | 105                      | 67                      | 94               | 129                      | 83                      |
| Private                                                                    | University of Chicago                   | 431              | 44                       | 23                      | 437              | 46                       | 23                      |
| Public                                                                     | University of Cincinnati - Cincinnati   | 288              | 62                       | 38                      | 296              | 61                       | 37                      |
| Public                                                                     | University of Colorado - Boulder        | 284              | 65                       | 41                      | 887              | 16                       | 8                       |
| Public                                                                     | U. of Colorado - Denver/Anschutz Med.   | 331              | 56                       | 32                      | 329              | 52                       | 28                      |
| Public                                                                     | University of Connecticut - Health Ctr. | 114              | 119                      | 76                      | 122              | 117                      | 75                      |
| Public                                                                     | University of Connecticut - Storrs      | 113              | 121                      | 78                      | 98               | 126                      | 81                      |
| Private                                                                    | University of Dayton                    | 11               | 249                      | 80                      | 5                | 281                      | 94                      |
| Public                                                                     | University of Delaware                  | 160              | 97                       | 62                      | 144              | 105                      | 67                      |
| Public                                                                     | University of Florida                   | 664              | 26                       | 13                      | 579              | 31                       | 16                      |
| Public                                                                     | University of Georgia                   | 236              | 76                       | 48                      | 229              | 79                       | 51                      |
| Public                                                                     | University of Hawaii - Manoa            | 199              | 89                       | 56                      | 203              | 89                       | 57                      |

| 2016<br>Postdocs | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Postdocs | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Postdocs | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|------------------|--------------------------|-------------------------|------------------|--------------------------|-------------------------|------------------|--------------------------|-------------------------|
| 213              | 89                       | 58                      | 212              | 84                       | 53                      | 201              | 85                       | 54                      |
| 123              | 115                      | 74                      | 114              | 117                      | 77                      | 91               | 134                      | 87                      |
| 338              | 53                       | 30                      | 322              | 55                       | 31                      | 365              | 50                       | 27                      |
| 522              | 36                       | 19                      | 526              | 38                       | 20                      | 464              | 41                       | 22                      |
| 411              | 46                       | 24                      | 389              | 48                       | 25                      | 358              | 51                       | 28                      |
| 70               | 142                      | 50                      | 83               | 135                      | 48                      | 82               | 137                      | 48                      |
| 208              | 91                       | 32                      | 263              | 68                       | 28                      | 206              | 84                       | 31                      |
| 275              | 65                       | 26                      | 292              | 61                       | 25                      | 298              | 62                       | 26                      |
| 35               | 183                      | 58                      | 28               | 197                      | 60                      | 33               | 186                      | 57                      |
| 303              | 62                       | 37                      | 306              | 56                       | 32                      | 345              | 54                       | 31                      |
| 554              | 35                       | 18                      | 573              | 33                       | 17                      | 648              | 24                       | 12                      |
| 2,228            | 2                        | 2                       | 2,264            | 2                        | 2                       | 2,048            | 2                        | 2                       |
| 8                | 269                      | 185                     | 0                | 360                      | 235                     | 0                | 360                      | 236                     |
| 264              | 69                       | 42                      | 263              | 68                       | 41                      | 224              | 77                       | 50                      |
| 194              | 93                       | 60                      | 167              | 95                       | 61                      | 192              | 89                       | 56                      |
| 602              | 31                       | 16                      | 615              | 28                       | 16                      | 386              | 48                       | 25                      |
| 130              | 112                      | 40                      | 117              | 116                      | 40                      | 119              | 121                      | 42                      |
| 205              | 92                       | 33                      | 182              | 92                       | 34                      | 194              | 88                       | 33                      |
| 128              | 114                      | 41                      | 133              | 106                      | 37                      | 124              | 117                      | 41                      |
| 33               | 188                      | 130                     | 33               | 182                      | 126                     | 36               | 181                      | 127                     |
| 68               | 143                      | 93                      | 86               | 133                      | 86                      | 69               | 141                      | 92                      |
| 273              | 66                       | 40                      | 256              | 72                       | 43                      | 301              | 60                       | 35                      |
| 247              | 76                       | 47                      | 252              | 74                       | 45                      | 228              | 75                       | 48                      |
| 15               | 238                      | 163                     | 13               | 246                      | 173                     | 19               | 217                      | 152                     |
| 32               | 193                      | 134                     | 37               | 178                      | 124                     | 47               | 163                      | 111                     |
| 451              | 43                       | 23                      | 471              | 44                       | 22                      | 451              | 42                       | 20                      |
| 36               | 179                      | 122                     | 69               | 143                      | 95                      | 62               | 148                      | 99                      |
| 83               | 137                      | 89                      | 23               | 216                      | 151                     | 57               | 150                      | 100                     |
| 795              | 18                       | 10                      | 1,184            | 9                        | 4                       | 1,148            | 10                       | 4                       |
| 837              | 15                       | 8                       | 833              | 15                       | 8                       | 765              | 17                       | 10                      |
| 338              | 53                       | 30                      | 297              | 60                       | 36                      | 315              | 57                       | 33                      |
| 1,120            | 10                       | 4                       | 1,016            | 12                       | 6                       | 1,088            | 11                       | 5                       |
| 215              | 87                       | 56                      | 190              | 91                       | 58                      | 141              | 112                      | 73                      |
| 1,319            | 5                        | 1                       | 1,250            | 6                        | 2                       | 1,338            | 5                        | 1                       |
| 1,037            | 11                       | 5                       | 1,041            | 11                       | 5                       | 1,051            | 12                       | 6                       |
| 297              | 63                       | 38                      | 306              | 56                       | 32                      | 285              | 64                       | 38                      |
| 136              | 108                      | 69                      | 125              | 110                      | 73                      | 120              | 120                      | 79                      |
| 67               | 146                      | 96                      | 51               | 157                      | 106                     | 47               | 163                      | 111                     |
| 606              | 29                       | 14                      | 586              | 30                       | 14                      | 583              | 32                       | 17                      |
| 337              | 55                       | 32                      | 303              | 58                       | 34                      | 466              | 39                       | 19                      |
| 939              | 13                       | 6                       | 911              | 13                       | 7                       | 879              | 14                       | 7                       |
| 332              | 57                       | 34                      | 288              | 63                       | 38                      | 267              | 66                       | 40                      |
| 95               | 130                      | 84                      | 105              | 124                      | 81                      | 104              | 127                      | 83                      |
| 138              | 106                      | 67                      | 108              | 121                      | 78                      | 121              | 119                      | 78                      |
| 15               | 238                      | 76                      | 9                | 264                      | 80                      | 10               | 265                      | 81                      |
| 137              | 107                      | 68                      | 132              | 108                      | 71                      | 166              | 100                      | 63                      |
| 666              | 21                       | 13                      | 679              | 21                       | 12                      | 644              | 25                       | 13                      |
| 260              | 72                       | 44                      | 250              | 76                       | 46                      | 231              | 74                       | 47                      |
| 247              | 76                       | 47                      | 234              | 79                       | 49                      | 243              | 72                       | 45                      |

| Postdoctoral Appointees                                                    |                                       |                  |                          |                         |                  |                          |                         |
|----------------------------------------------------------------------------|---------------------------------------|------------------|--------------------------|-------------------------|------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                       | 2018<br>Postdocs | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Postdocs | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                     | University of Houston - Univ. Park    | 220              | 81                       | 51                      | 237              | 75                       | 48                      |
| Public                                                                     | University of Idaho                   | 50               | 159                      | 107                     | 64               | 145                      | 96                      |
| Public                                                                     | University of Illinois - Chicago      | 117              | 117                      | 75                      | 204              | 88                       | 56                      |
| Public                                                                     | Univ. of Illinois - Urbana-Champaign  | 423              | 46                       | 23                      | 459              | 44                       | 23                      |
| Public                                                                     | University of Iowa                    | 362              | 51                       | 27                      | 329              | 52                       | 28                      |
| Public                                                                     | University of Kansas - Lawrence       | 99               | 126                      | 82                      | 112              | 121                      | 78                      |
| Public                                                                     | University of Kansas Medical Center   | 75               | 142                      | 92                      | 76               | 140                      | 92                      |
| Public                                                                     | University of Kentucky                | 261              | 69                       | 45                      | 184              | 94                       | 60                      |
| Public                                                                     | University of Louisville              | 70               | 145                      | 95                      | 81               | 138                      | 90                      |
| Public                                                                     | University of Maine - Orono           | 18               | 227                      | 156                     | 19               | 223                      | 154                     |
| Public                                                                     | University of Maryland - Baltimore    | 332              | 55                       | 31                      | 334              | 51                       | 27                      |
| Public                                                                     | Univ. of Maryland - Baltimore County  | 38               | 181                      | 124                     | 37               | 177                      | 120                     |
| Public                                                                     | University of Maryland - College Park | 474              | 40                       | 20                      | 513              | 39                       | 21                      |
| Public                                                                     | Univ. of Massachusetts - Amherst      | 153              | 99                       | 63                      | 151              | 104                      | 66                      |
| Public                                                                     | Univ. of Mass. Med. Sch. - Worcester  | 287              | 63                       | 39                      | 302              | 60                       | 36                      |
| Private                                                                    | University of Miami                   | 259              | 71                       | 26                      | 219              | 83                       | 29                      |
| Public                                                                     | University of Michigan - Ann Arbor    | 1,350            | 5                        | 1                       | 1,368            | 5                        | 1                       |
| Public                                                                     | University of Minnesota - Twin Cities | 1,147            | 10                       | 4                       | 1,031            | 13                       | 6                       |
| Public                                                                     | University of Missouri - Columbia     | 199              | 89                       | 56                      | 245              | 72                       | 46                      |
| Public                                                                     | University of Montana - Missoula      | 34               | 189                      | 131                     | 56               | 156                      | 105                     |
| Public                                                                     | University of Nebraska - Lincoln      | 170              | 94                       | 60                      | 181              | 95                       | 61                      |
| Public                                                                     | University of Nebraska Medical Ctr.   | 136              | 107                      | 69                      | 143              | 107                      | 69                      |
| Public                                                                     | University of Nevada - Reno           | 87               | 137                      | 87                      | 86               | 134                      | 86                      |
| Public                                                                     | Univ. of New Hampshire - Durham       | 62               | 151                      | 101                     | 55               | 157                      | 106                     |
| Public                                                                     | Univ. of New Mexico - Albuquerque     | 103              | 124                      | 80                      | 96               | 128                      | 82                      |
| Public                                                                     | Univ. of North Carolina - Chapel Hill | 743              | 18                       | 9                       | 806              | 18                       | 10                      |
| Public                                                                     | University of North Dakota            | 33               | 194                      | 134                     | 30               | 189                      | 130                     |
| Private                                                                    | University of Notre Dame              | 34               | 189                      | 59                      | 64               | 145                      | 50                      |
| Public                                                                     | University of Oklahoma - HSC          | 77               | 140                      | 90                      | 123              | 115                      | 74                      |
| Public                                                                     | University of Oklahoma - Norman       | 149              | 102                      | 65                      | 131              | 112                      | 72                      |
| Public                                                                     | University of Oregon                  | 69               | 146                      | 96                      | 62               | 149                      | 98                      |
| Private                                                                    | University of Pennsylvania            | 1,141            | 11                       | 7                       | 1,071            | 12                       | 7                       |
| Public                                                                     | University of Pittsburgh - Pittsburgh | 718              | 20                       | 11                      | 726              | 20                       | 12                      |
| Public                                                                     | University of Rhode Island            | 41               | 173                      | 118                     | 39               | 172                      | 118                     |
| Private                                                                    | University of Rochester               | 218              | 82                       | 31                      | 214              | 85                       | 31                      |
| Public                                                                     | Univ. of South Carolina - Columbia    | 114              | 119                      | 76                      | 122              | 117                      | 75                      |
| Public                                                                     | University of South Florida - Tampa   | 307              | 60                       | 36                      | 288              | 63                       | 39                      |
| Private                                                                    | University of Southern California     | 459              | 42                       | 22                      | 452              | 45                       | 22                      |
| Public                                                                     | University of Tennessee - Knoxville   | 129              | 114                      | 73                      | 138              | 110                      | 70                      |
| Public                                                                     | University of Texas - Austin          | 452              | 43                       | 21                      | 305              | 59                       | 35                      |
| Public                                                                     | University of Texas - El Paso         | 39               | 177                      | 121                     | 57               | 153                      | 102                     |
| Public                                                                     | University of Texas HSC - Houston     | 216              | 85                       | 53                      | 241              | 73                       | 47                      |
| Public                                                                     | Univ. of Texas HSC - San Antonio      | 190              | 91                       | 58                      | 171              | 98                       | 64                      |
| Public                                                                     | U. of Texas MD Anderson Cancer Ctr.   | 611              | 29                       | 14                      | 651              | 24                       | 14                      |
| Public                                                                     | U. of Texas Med. Branch - Galveston   | 122              | 116                      | 74                      | 144              | 105                      | 67                      |
| Public                                                                     | U. of Texas SW Medical Ctr. - Dallas  | 585              | 30                       | 15                      | 573              | 32                       | 17                      |
| Public                                                                     | University of Utah                    | 362              | 51                       | 27                      | 514              | 38                       | 20                      |
| Public                                                                     | University of Vermont                 | 73               | 144                      | 94                      | 82               | 136                      | 88                      |
| Public                                                                     | University of Virginia                | 402              | 47                       | 24                      | 306              | 57                       | 33                      |

| 2016<br>Postdocs | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Postdocs | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Postdocs | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|------------------|--------------------------|-------------------------|------------------|--------------------------|-------------------------|------------------|--------------------------|-------------------------|
| 263              | 70                       | 43                      | 264              | 67                       | 40                      | 258              | 67                       | 41                      |
| 67               | 146                      | 96                      | 51               | 157                      | 106                     | 56               | 154                      | 103                     |
| 229              | 81                       | 51                      | 214              | 83                       | 52                      | 238              | 73                       | 46                      |
| 512              | 39                       | 19                      | 542              | 36                       | 18                      | 525              | 35                       | 17                      |
| 345              | 51                       | 28                      | 346              | 53                       | 29                      | 355              | 53                       | 30                      |
| 91               | 131                      | 85                      | 125              | 110                      | 73                      | 154              | 103                      | 66                      |
| 99               | 127                      | 82                      | 124              | 112                      | 75                      | 111              | 125                      | 81                      |
| 233              | 80                       | 50                      | 221              | 82                       | 51                      | 155              | 102                      | 65                      |
| 97               | 129                      | 83                      | 107              | 123                      | 80                      | 97               | 130                      | 85                      |
| 19               | 226                      | 153                     | 15               | 239                      | 167                     | 14               | 238                      | 164                     |
| 334              | 56                       | 33                      | 325              | 54                       | 30                      | 358              | 51                       | 28                      |
| 37               | 177                      | 120                     | 67               | 144                      | 96                      | 63               | 147                      | 98                      |
| 479              | 42                       | 22                      | 496              | 41                       | 20                      | 437              | 46                       | 23                      |
| 132              | 110                      | 71                      | 144              | 103                      | 68                      | 153              | 104                      | 67                      |
| 359              | 49                       | 26                      | 348              | 52                       | 28                      | 315              | 57                       | 33                      |
| 268              | 68                       | 27                      | 258              | 70                       | 29                      | 198              | 87                       | 32                      |
| 1,313            | 6                        | 2                       | 1,299            | 5                        | 1                       | 1,238            | 7                        | 2                       |
| 906              | 14                       | 7                       | 752              | 18                       | 11                      | 679              | 19                       | 11                      |
| 219              | 84                       | 53                      | 165              | 97                       | 63                      | 184              | 93                       | 59                      |
| 36               | 179                      | 122                     | 36               | 179                      | 125                     | 36               | 181                      | 127                     |
| 219              | 84                       | 53                      | 205              | 86                       | 55                      | 201              | 85                       | 54                      |
| 121              | 116                      | 75                      | 108              | 121                      | 78                      | 110              | 126                      | 82                      |
| 89               | 133                      | 86                      | 78               | 139                      | 91                      | 65               | 144                      | 95                      |
| 52               | 161                      | 108                     | 46               | 165                      | 113                     | 45               | 168                      | 115                     |
| 120              | 117                      | 76                      | 124              | 112                      | 75                      | 139              | 114                      | 75                      |
| 825              | 16                       | 9                       | 803              | 16                       | 9                       | 802              | 15                       | 8                       |
| 36               | 179                      | 122                     | 24               | 212                      | 147                     | 21               | 209                      | 146                     |
| 152              | 103                      | 37                      | 124              | 112                      | 38                      | 171              | 96                       | 36                      |
| 102              | 125                      | 80                      | 83               | 135                      | 88                      | 89               | 135                      | 88                      |
| 134              | 109                      | 70                      | 133              | 106                      | 70                      | 145              | 107                      | 68                      |
| 66               | 148                      | 98                      | 105              | 124                      | 81                      | 85               | 136                      | 89                      |
| 964              | 12                       | 7                       | 901              | 14                       | 7                       | 919              | 13                       | 7                       |
| 703              | 20                       | 12                      | 664              | 22                       | 13                      | 659              | 22                       | 12                      |
| 39               | 174                      | 117                     | 32               | 185                      | 129                     | 27               | 197                      | 139                     |
| 249              | 74                       | 29                      | 233              | 80                       | 31                      | 222              | 78                       | 28                      |
| 130              | 112                      | 73                      | 129              | 109                      | 72                      | 144              | 108                      | 69                      |
| 272              | 67                       | 41                      | 282              | 65                       | 39                      | 300              | 61                       | 36                      |
| 449              | 44                       | 21                      | 475              | 43                       | 22                      | 480              | 37                       | 20                      |
| 132              | 110                      | 71                      | 136              | 105                      | 69                      | 143              | 110                      | 71                      |
| 343              | 52                       | 29                      | 370              | 49                       | 26                      | 370              | 49                       | 26                      |
| 56               | 153                      | 103                     | 58               | 151                      | 101                     | 12               | 253                      | 176                     |
| 243              | 78                       | 49                      | 237              | 77                       | 47                      | 212              | 82                       | 52                      |
| 183              | 94                       | 61                      | 167              | 95                       | 61                      | 165              | 101                      | 64                      |
| 635              | 25                       | 15                      | 637              | 25                       | 14                      | 640              | 26                       | 14                      |
| 170              | 97                       | 63                      | 102              | 127                      | 84                      | 131              | 115                      | 76                      |
| 564              | 34                       | 17                      | 562              | 34                       | 17                      | 571              | 33                       | 16                      |
| 504              | 40                       | 20                      | 487              | 42                       | 21                      | 429              | 47                       | 24                      |
| 51               | 162                      | 109                     | 86               | 133                      | 86                      | 95               | 132                      | 86                      |
| 346              | 50                       | 27                      | 420              | 47                       | 24                      | 447              | 44                       | 22                      |

| Postdoctoral Appointees                                                    |                                       |                  |                          |                         |                  |                          |                         |
|----------------------------------------------------------------------------|---------------------------------------|------------------|--------------------------|-------------------------|------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                       | 2018<br>Postdocs | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Postdocs | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                     | University of Washington - Seattle    | 1,034            | 13                       | 6                       | 1,023            | 14                       | 7                       |
| Public                                                                     | University of Wisconsin - Madison     | 740              | 19                       | 10                      | 744              | 19                       | 11                      |
| Public                                                                     | University of Wyoming                 | 50               | 159                      | 107                     | 62               | 149                      | 98                      |
| Public                                                                     | Utah State University                 | 44               | 168                      | 114                     | 64               | 145                      | 96                      |
| Private                                                                    | Vanderbilt University                 | 492              | 39                       | 20                      | 487              | 40                       | 19                      |
| Public                                                                     | Virginia Commonwealth University      | 204              | 88                       | 55                      | 177              | 96                       | 62                      |
| Public                                                                     | Virginia Polytechnic Inst. and St. U. | 218              | 82                       | 52                      | 230              | 78                       | 50                      |
| Private                                                                    | Wake Forest University                | 129              | 114                      | 42                      | 139              | 109                      | 40                      |
| Public                                                                     | Washington State Univ. - Pullman      | 181              | 93                       | 59                      | 201              | 90                       | 58                      |
| Private                                                                    | Washington University in St. Louis    | 665              | 24                       | 13                      | 611              | 27                       | 13                      |
| Public                                                                     | Wayne State University                | 137              | 106                      | 68                      | 122              | 117                      | 75                      |
| Private                                                                    | Weill Cornell Medical College         | 474              | 40                       | 21                      | 460              | 42                       | 20                      |
| Public                                                                     | West Virginia University              | 79               | 139                      | 89                      | 57               | 153                      | 102                     |
| Private                                                                    | Woods Hole Oceanographic Inst.        | 90               | 134                      | 49                      | 99               | 125                      | 45                      |
| Public                                                                     | Wright State University - Dayton      | 7                | 266                      | 183                     | 12               | 252                      | 172                     |
| Private                                                                    | Yale University                       | 1,186            | 9                        | 6                       | 1,097            | 10                       | 6                       |
| Private                                                                    | Yeshiva University                    | 241              | 75                       | 28                      | 240              | 74                       | 27                      |

| 2016<br>Postdocs | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Postdocs | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Postdocs | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|------------------|--------------------------|-------------------------|------------------|--------------------------|-------------------------|------------------|--------------------------|-------------------------|
| 1,264            | 7                        | 3                       | 1,205            | 8                        | 3                       | 1,184            | 9                        | 3                       |
| 745              | 19                       | 11                      | 765              | 17                       | 10                      | 767              | 16                       | 9                       |
| 60               | 151                      | 101                     | 54               | 154                      | 104                     | 55               | 155                      | 104                     |
| 47               | 167                      | 112                     | 42               | 171                      | 117                     | 47               | 163                      | 111                     |
| 618              | 28                       | 13                      | 629              | 26                       | 12                      | 634              | 27                       | 13                      |
| 159              | 100                      | 66                      | 194              | 89                       | 57                      | 249              | 69                       | 43                      |
| 214              | 88                       | 57                      | 225              | 81                       | 50                      | 226              | 76                       | 49                      |
| 90               | 132                      | 47                      | 87               | 131                      | 47                      | 152              | 106                      | 39                      |
| 165              | 99                       | 65                      | 175              | 94                       | 60                      | 169              | 97                       | 61                      |
| 629              | 27                       | 12                      | 615              | 28                       | 13                      | 625              | 29                       | 14                      |
| 117              | 120                      | 78                      | 146              | 101                      | 66                      | 185              | 92                       | 58                      |
| 394              | 48                       | 23                      | 354              | 51                       | 24                      | 322              | 56                       | 24                      |
| 54               | 157                      | 106                     | 51               | 157                      | 106                     | 67               | 143                      | 94                      |
| 82               | 138                      | 49                      | 99               | 128                      | 44                      | 97               | 130                      | 46                      |
| 21               | 221                      | 151                     | 1                | 333                      | 221                     | 2                | 327                      | 220                     |
| 1,169            | 9                        | 6                       | 1,157            | 10                       | 6                       | 1,201            | 8                        | 6                       |
| 243              | 78                       | 30                      | 283              | 64                       | 26                      | 303              | 59                       | 25                      |

| SAT Scores                                                              |                                        |                       |                          |                         |                       |                          |                         |
|-------------------------------------------------------------------------|----------------------------------------|-----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                        | 2018<br>Median<br>SAT | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Median<br>SAT | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                  | Arizona State University               | 1245                  | 208                      | 65                      | 1225                  | 234                      | 67                      |
| Public                                                                  | Auburn University                      | 1295                  | 142                      | 38                      | 1280                  | 155                      | 40                      |
| Public                                                                  | Augusta University                     | 1176                  | 382                      | 136                     | 940                   | 1222                     | 464                     |
| Private                                                                 | Baylor College of Medicine             |                       |                          |                         |                       |                          |                         |
| Private                                                                 | Boston University                      | 1415                  | 48                       | 45                      | 1390                  | 63                       | 59                      |
| Private                                                                 | Brown University                       | 1485                  | 19                       | 19                      | 1460                  | 19                       | 19                      |
| Private                                                                 | California Institute of Technology     | 1555                  | 1                        | 1                       | 1560                  | 1                        | 1                       |
| Private                                                                 | Carnegie Mellon University             | 1500                  | 9                        | 9                       | 1495                  | 11                       | 11                      |
| Private                                                                 | Case Western Reserve University        | 1430                  | 40                       | 39                      | 1415                  | 43                       | 42                      |
| Public                                                                  | Clemson University                     | 1310                  | 125                      | 30                      | 1340                  | 93                       | 10                      |
| Public                                                                  | Cleveland State University             | 1110                  | 648                      | 236                     | 1110                  | 631                      | 221                     |
| Private                                                                 | Cold Spring Harbor Laboratory          |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Colorado State Univ. - Fort Collins    | 1175                  | 383                      | 137                     | 1210                  | 257                      | 76                      |
| Private                                                                 | Columbia University                    | 1505                  | 6                        | 6                       | 1510                  | 6                        | 6                       |
| Private                                                                 | Cornell University                     | 1465                  | 25                       | 25                      | 1470                  | 17                       | 17                      |
| Private                                                                 | Dartmouth College                      | 1490                  | 18                       | 18                      | 1495                  | 11                       | 11                      |
| Private                                                                 | Drexel University                      | 1275                  | 167                      | 120                     | 1260                  | 176                      | 126                     |
| Private                                                                 | Duke University                        | 1500                  | 9                        | 9                       | 1460                  | 19                       | 19                      |
| Private                                                                 | Emory University                       | 1435                  | 39                       | 38                      | 1415                  | 43                       | 42                      |
| Public                                                                  | Florida International University       | 1175                  | 383                      | 137                     | 1160                  | 400                      | 134                     |
| Public                                                                  | Florida State University               | 1275                  | 167                      | 48                      | 1310                  | 116                      | 23                      |
| Public                                                                  | George Mason University                | 1220                  | 257                      | 82                      | 1195                  | 296                      | 87                      |
| Private                                                                 | George Washington University           | 1370                  | 78                       | 68                      | 1360                  | 82                       | 73                      |
| Private                                                                 | Georgetown University                  | 1450                  | 29                       | 28                      | 1435                  | 31                       | 31                      |
| Public                                                                  | Georgia Institute of Technology        | 1465                  | 25                       | 1                       | 1430                  | 32                       | 1                       |
| Public                                                                  | Georgia State University               | 1155                  | 449                      | 165                     | 1130                  | 538                      | 186                     |
| Private                                                                 | Harvard University                     | 1520                  | 4                        | 4                       | 1525                  | 3                        | 3                       |
| Private                                                                 | Icahn School of Med. at Mount Sinai    |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Indiana University - Bloomington       | 1255                  | 198                      | 59                      | 1310                  | 116                      | 23                      |
| Public                                                                  | Iowa State University                  | 1210                  | 272                      | 87                      | 1210                  | 257                      | 76                      |
| Private                                                                 | Johns Hopkins University               | 1500                  | 9                        | 9                       | 1500                  | 8                        | 8                       |
| Public                                                                  | Kansas State University                |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Louisiana State Univ. - Baton Rouge    | 1240                  | 213                      | 68                      | 1225                  | 234                      | 67                      |
| Private                                                                 | Massachusetts Inst. of Technology      | 1535                  | 2                        | 2                       | 1530                  | 2                        | 2                       |
| Private                                                                 | Medical College of Wisconsin           |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Medical University of South Carolina   |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Michigan State University              | 1210                  | 272                      | 87                      | 1210                  | 257                      | 76                      |
| Public                                                                  | Mississippi State University           | 1225                  | 245                      | 77                      | 1195                  | 296                      | 87                      |
| Public                                                                  | Montana State University - Bozeman     | 1195                  | 306                      | 102                     | 1195                  | 296                      | 87                      |
| Public                                                                  | Naval Postgraduate School              |                       |                          |                         |                       |                          |                         |
| Public                                                                  | New Jersey Institute of Technology     | 1285                  | 154                      | 43                      | 1280                  | 155                      | 40                      |
| Public                                                                  | New Mexico State Univ. - Las Cruces    | 1040                  | 997                      | 383                     | 1060                  | 882                      | 321                     |
| Private                                                                 | New York University                    | 1410                  | 55                       | 51                      | 1390                  | 63                       | 59                      |
| Public                                                                  | North Carolina State University        | 1340                  | 100                      | 19                      | 1325                  | 102                      | 17                      |
| Private                                                                 | Northeastern University                | 1460                  | 28                       | 27                      | 1460                  | 19                       | 19                      |
| Private                                                                 | Northwestern University                | 1500                  | 9                        | 9                       | 1460                  | 19                       | 19                      |
| Public                                                                  | Ohio State University - Columbus       | 1355                  | 88                       | 14                      | 1340                  | 93                       | 10                      |
| Public                                                                  | Oklahoma State University - Stillwater | 1210                  | 272                      | 87                      | 1210                  | 257                      | 76                      |
| Public                                                                  | Oregon Health & Science University     |                       |                          |                         |                       |                          |                         |

| 2016<br>Median<br>SAT | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Median<br>SAT | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Median<br>SAT | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|-----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|
| 1220                  | 209                      | 62                      | 1170                  | 210                      | 68                      | 1145                  | 273                      | 92                      |
| 1290                  | 118                      | 26                      | 1220                  | 138                      | 38                      | 1220                  | 143                      | 38                      |
| 1040                  | 867                      | 330                     | 1035                  | 631                      | 239                     | 1030                  | 673                      | 237                     |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1320                  | 95                       | 79                      | 1305                  | 81                       | 69                      | 1300                  | 82                       | 71                      |
| 1470                  | 21                       | 21                      | 1465                  | 13                       | 13                      | 1440                  | 23                       | 23                      |
| 1555                  | 1                        | 1                       | 1550                  | 1                        | 1                       | 1550                  | 1                        | 1                       |
| 1465                  | 24                       | 24                      | 1450                  | 20                       | 20                      | 1440                  | 23                       | 23                      |
| 1470                  | 21                       | 21                      | 1400                  | 35                       | 34                      | 1370                  | 46                       | 44                      |
| 1340                  | 83                       | 12                      | 1250                  | 115                      | 28                      | 1245                  | 114                      | 27                      |
| 1110                  | 583                      | 215                     | 1030                  | 642                      | 240                     | 1010                  | 790                      | 288                     |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1240                  | 180                      | 49                      | 1150                  | 246                      | 83                      | 1130                  | 286                      | 98                      |
| 1500                  | 8                        | 8                       | 1475                  | 11                       | 11                      | 1480                  | 8                        | 8                       |
| 1430                  | 35                       | 35                      | 1430                  | 30                       | 30                      | 1420                  | 28                       | 28                      |
| 1455                  | 26                       | 26                      | 1445                  | 21                       | 21                      | 1455                  | 18                       | 18                      |
| 1190                  | 283                      | 198                     | 1203                  | 179                      | 123                     | 1200                  | 174                      | 122                     |
| 1475                  | 19                       | 19                      | 1455                  | 19                       | 19                      | 1460                  | 13                       | 13                      |
| 1395                  | 55                       | 49                      | 1380                  | 45                       | 43                      | 1370                  | 46                       | 44                      |
| 1120                  | 574                      | 211                     | 1080                  | 452                      | 166                     | 1080                  | 475                      | 166                     |
| 1290                  | 118                      | 26                      | 1220                  | 138                      | 38                      | 1240                  | 118                      | 29                      |
| 1155                  | 456                      | 158                     | 1145                  | 275                      | 96                      | 1150                  | 252                      | 80                      |
| 1288                  | 130                      | 100                     | 1290                  | 90                       | 76                      | 1295                  | 93                       | 80                      |
| 1420                  | 39                       | 38                      | 1410                  | 32                       | 32                      | 1420                  | 28                       | 28                      |
| 1410                  | 46                       | 4                       | 1405                  | 34                       | 1                       | 1400                  | 35                       | 1                       |
| 1070                  | 716                      | 270                     | 1060                  | 527                      | 195                     | 1070                  | 491                      | 172                     |
| 1515                  | 6                        | 6                       | 1500                  | 6                        | 6                       | 1505                  | 3                        | 3                       |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1175                  | 391                      | 126                     | 1175                  | 206                      | 65                      | 1175                  | 213                      | 65                      |
| 1220                  | 209                      | 62                      | 1150                  | 246                      | 83                      | 1150                  | 252                      | 80                      |
| 1485                  | 15                       | 15                      | 1445                  | 21                       | 21                      | 1435                  | 26                       | 26                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1240                  | 180                      | 49                      | 1170                  | 210                      | 68                      | 1170                  | 215                      | 66                      |
| 1525                  | 2                        | 2                       | 1505                  | 5                        | 5                       | 1495                  | 6                        | 6                       |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1275                  | 135                      | 34                      | 1170                  | 210                      | 68                      | 1170                  | 215                      | 66                      |
| 1200                  | 239                      | 72                      | 1150                  | 246                      | 83                      | 1130                  | 286                      | 98                      |
| 1200                  | 239                      | 72                      | 1130                  | 288                      | 100                     | 1130                  | 286                      | 98                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1210                  | 233                      | 70                      | 1210                  | 152                      | 46                      | 1165                  | 234                      | 72                      |
| 1070                  | 716                      | 270                     | 990                   | 855                      | 331                     | 990                   | 899                      | 333                     |
| 1365                  | 66                       | 60                      | 1360                  | 51                       | 48                      | 1345                  | 59                       | 54                      |
| 1340                  | 83                       | 12                      | 1245                  | 117                      | 29                      | 1245                  | 114                      | 27                      |
| 1485                  | 15                       | 15                      | 1440                  | 25                       | 25                      | 1420                  | 28                       | 28                      |
| 1500                  | 8                        | 8                       | 1440                  | 25                       | 25                      | 1475                  | 10                       | 10                      |
| 1360                  | 68                       | 7                       | 1300                  | 83                       | 13                      | 1300                  | 82                       | 12                      |
| 1180                  | 351                      | 110                     | 1130                  | 288                      | 100                     | 1150                  | 252                      | 80                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |

| SAT Scores                                                              |                                        |                       |                          |                         |                       |                          |                         |
|-------------------------------------------------------------------------|----------------------------------------|-----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                        | 2018<br>Median<br>SAT | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Median<br>SAT | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                  | Oregon State University                | 1195                  | 306                      | 102                     | 1185                  | 338                      | 104                     |
| Public                                                                  | Penn. State Univ. - Hershey Med. Ctr.  |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Pennsylvania State Univ. - Univ. Park  | 1260                  | 184                      | 54                      | 1250                  | 196                      | 53                      |
| Private                                                                 | Princeton University                   | 1505                  | 6                        | 6                       | 1500                  | 8                        | 8                       |
| Public                                                                  | Purdue University - West Lafayette     | 1295                  | 142                      | 38                      | 1265                  | 171                      | 48                      |
| Private                                                                 | Rensselaer Polytechnic Institute       | 1415                  | 48                       | 45                      | 1410                  | 53                       | 50                      |
| Private                                                                 | Rice University                        | 1500                  | 9                        | 9                       | 1500                  | 8                        | 8                       |
| Private                                                                 | Rockefeller University                 |                       |                          |                         |                       |                          |                         |
| Private                                                                 | Rush University                        |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Rutgers University - New Brunswick     | 1300                  | 136                      | 35                      | 1295                  | 131                      | 32                      |
| Private                                                                 | Scripps Research Institute             |                       |                          |                         |                       |                          |                         |
| Private                                                                 | Stanford University                    | 1495                  | 17                       | 17                      | 1465                  | 18                       | 18                      |
| Public                                                                  | State Univ. of NY - Polytechnic Inst.  | 1175                  | 383                      | 137                     | 1145                  | 465                      | 162                     |
| Public                                                                  | Stony Brook University                 | 1325                  | 112                      | 25                      | 1310                  | 116                      | 23                      |
| Public                                                                  | Temple University                      |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Texas A&M Univ. - College Station      | 1275                  | 167                      | 48                      | 1250                  | 196                      | 53                      |
| Private                                                                 | Thomas Jefferson University            | 1150                  | 462                      | 292                     |                       |                          |                         |
| Private                                                                 | Tufts University                       | 1445                  | 31                       | 30                      | 1445                  | 28                       | 28                      |
| Private                                                                 | Tulane University                      | 1415                  | 48                       | 45                      | 1415                  | 43                       | 42                      |
| Public                                                                  | Uniformed Services Univ. of the HS     |                       |                          |                         |                       |                          |                         |
| Public                                                                  | University at Albany                   | 1180                  | 343                      | 116                     | 1170                  | 383                      | 125                     |
| Public                                                                  | University at Buffalo                  | 1245                  | 208                      | 65                      | 1170                  | 383                      | 125                     |
| Public                                                                  | University of Alabama - Birmingham     | 1210                  | 272                      | 87                      | 1195                  | 296                      | 87                      |
| Public                                                                  | University of Alabama - Huntsville     | 1310                  | 125                      | 30                      | 1310                  | 116                      | 23                      |
| Public                                                                  | University of Alaska - Fairbanks       | 1095                  | 732                      | 268                     | 1080                  | 802                      | 290                     |
| Public                                                                  | University of Arizona                  | 1195                  | 306                      | 102                     |                       |                          |                         |
| Public                                                                  | University of Arkansas - Fayetteville  | 1240                  | 213                      | 68                      | 1240                  | 206                      | 60                      |
| Public                                                                  | Univ. of Arkansas for Med. Sciences    |                       |                          |                         |                       |                          |                         |
| Public                                                                  | University of California - Berkeley    | 1425                  | 45                       | 2                       | 1415                  | 43                       | 2                       |
| Public                                                                  | University of California - Davis       | 1280                  | 157                      | 45                      | 1245                  | 204                      | 59                      |
| Public                                                                  | University of California - Irvine      | 1300                  | 136                      | 35                      | 1260                  | 176                      | 51                      |
| Public                                                                  | University of California - Los Angeles | 1405                  | 57                       | 5                       | 1335                  | 99                       | 15                      |
| Public                                                                  | University of California - Riverside   | 1220                  | 257                      | 82                      | 1195                  | 296                      | 87                      |
| Public                                                                  | University of California - San Diego   | 1365                  | 82                       | 12                      | 1310                  | 116                      | 23                      |
| Public                                                                  | Univ. of California - San Francisco    |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Univ. of California - Santa Barbara    | 1345                  | 97                       | 18                      | 1295                  | 131                      | 32                      |
| Public                                                                  | University of California - Santa Cruz  | 1295                  | 142                      | 38                      | 1250                  | 196                      | 53                      |
| Public                                                                  | University of Central Florida          | 1250                  | 205                      | 63                      | 1235                  | 227                      | 64                      |
| Private                                                                 | University of Chicago                  | 1500                  | 9                        | 9                       | 1480                  | 14                       | 14                      |
| Public                                                                  | University of Cincinnati - Cincinnati  | 1260                  | 184                      | 54                      | 1225                  | 234                      | 67                      |
| Public                                                                  | University of Colorado - Boulder       | 1255                  | 198                      | 59                      | 1295                  | 131                      | 32                      |
| Public                                                                  | U. of Colorado - Denver/Anschutz Med.  | 1115                  | 633                      | 231                     | 1180                  | 344                      | 108                     |
| Public                                                                  | Univ. of Connecticut - Health Center   |                       |                          |                         |                       |                          |                         |
| Public                                                                  | University of Connecticut - Storrs     | 1315                  | 122                      | 29                      | 1300                  | 129                      | 30                      |
| Private                                                                 | University of Dayton                   | 1280                  | 157                      | 113                     | 1260                  | 176                      | 126                     |
| Public                                                                  | University of Delaware                 | 1255                  | 198                      | 59                      | 1230                  | 229                      | 65                      |
| Public                                                                  | University of Florida                  | 1360                  | 83                       | 13                      | 1320                  | 113                      | 22                      |
| Public                                                                  | University of Georgia                  | 1325                  | 112                      | 25                      | 1325                  | 102                      | 17                      |
| Public                                                                  | University of Hawaii - Manoa           | 1145                  | 471                      | 173                     | 1145                  | 465                      | 162                     |

| 2016<br>Median<br>SAT | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Median<br>SAT | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Median<br>SAT | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|-----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|
| 1115                  | 580                      | 214                     | 1105                  | 378                      | 131                     | 1105                  | 393                      | 132                     |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1195                  | 278                      | 82                      | 1195                  | 183                      | 59                      | 1190                  | 184                      | 56                      |
| 1495                  | 12                       | 12                      | 1490                  | 7                        | 7                       | 1500                  | 5                        | 5                       |
| 1195                  | 278                      | 82                      | 1205                  | 160                      | 50                      | 1205                  | 164                      | 49                      |
| 1380                  | 58                       | 52                      | 1385                  | 41                       | 39                      | 1395                  | 37                       | 36                      |
| 1490                  | 13                       | 13                      | 1475                  | 11                       | 11                      | 1470                  | 12                       | 12                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1230                  | 200                      | 59                      | 1225                  | 136                      | 36                      | 1215                  | 157                      | 43                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1480                  | 18                       | 18                      | 1485                  | 8                        | 8                       | 1475                  | 10                       | 10                      |
| 1160                  | 406                      | 133                     | 1135                  | 284                      | 98                      | 1090                  | 420                      | 144                     |
| 1260                  | 155                      | 39                      | 1265                  | 104                      | 21                      | 1250                  | 112                      | 26                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1190                  | 283                      | 86                      | 1190                  | 190                      | 63                      | 1195                  | 179                      | 53                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1485                  | 15                       | 15                      | 1445                  | 21                       | 21                      | 1440                  | 23                       | 23                      |
| 1415                  | 42                       | 41                      | 1360                  | 51                       | 48                      | 1360                  | 54                       | 50                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1080                  | 701                      | 264                     | 1085                  | 441                      | 161                     | 1095                  | 416                      | 142                     |
| 1170                  | 395                      | 129                     | 1160                  | 238                      | 78                      | 1150                  | 252                      | 80                      |
| 1200                  | 239                      | 72                      | 1150                  | 246                      | 83                      | 1110                  | 347                      | 115                     |
| 1320                  | 95                       | 17                      | 1220                  | 138                      | 38                      | 1220                  | 143                      | 38                      |
| 1125                  | 516                      | 180                     | 1030                  | 642                      | 240                     |                       |                          |                         |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1260                  | 155                      | 39                      | 1170                  | 210                      | 68                      | 1170                  | 215                      | 66                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1405                  | 47                       | 5                       | 1380                  | 45                       | 3                       | 1370                  | 46                       | 3                       |
| 1190                  | 283                      | 86                      | 1205                  | 160                      | 50                      | 1205                  | 164                      | 49                      |
| 1195                  | 278                      | 82                      | 1160                  | 238                      | 78                      | 1160                  | 240                      | 73                      |
| 1315                  | 103                      | 19                      | 1325                  | 71                       | 10                      | 1325                  | 66                       | 8                       |
| 1065                  | 770                      | 296                     | 1095                  | 395                      | 138                     | 1130                  | 286                      | 98                      |
| 1310                  | 106                      | 22                      | 1335                  | 68                       | 9                       | 1310                  | 79                       | 11                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1255                  | 174                      | 46                      | 1225                  | 136                      | 36                      | 1235                  | 133                      | 33                      |
| 1175                  | 391                      | 126                     | 1175                  | 206                      | 65                      | 1130                  | 286                      | 98                      |
| 1175                  | 391                      | 126                     | 1175                  | 206                      | 65                      | 1185                  | 209                      | 62                      |
| 1525                  | 2                        | 2                       | 1520                  | 2                        | 2                       | 1518                  | 2                        | 2                       |
| 1240                  | 180                      | 49                      | 1170                  | 210                      | 68                      | 1170                  | 215                      | 66                      |
| 1305                  | 110                      | 23                      | 1220                  | 138                      | 38                      | 1220                  | 143                      | 38                      |
| 1075                  | 709                      | 268                     | 1050                  | 549                      | 202                     | 1050                  | 560                      | 192                     |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1230                  | 200                      | 59                      | 1235                  | 129                      | 33                      | 1240                  | 118                      | 29                      |
| 1275                  | 135                      | 102                     | 1205                  | 160                      | 111                     | 1205                  | 164                      | 116                     |
| 1170                  | 395                      | 129                     | 1195                  | 183                      | 59                      | 1190                  | 184                      | 56                      |
| 1275                  | 135                      | 34                      | 1260                  | 109                      | 25                      | 1265                  | 104                      | 22                      |
| 1240                  | 180                      | 49                      | 1240                  | 120                      | 31                      | 1235                  | 133                      | 33                      |
| 1080                  | 701                      | 264                     | 1080                  | 452                      | 166                     | 1085                  | 466                      | 161                     |

| SAT Scores                                                              |                                       |                       |                          |                         |                       |                          |                         |
|-------------------------------------------------------------------------|---------------------------------------|-----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2018<br>Median<br>SAT | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Median<br>SAT | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                  | University of Houston - Univ. Park    | 1220                  | 257                      | 82                      | 1195                  | 296                      | 87                      |
| Public                                                                  | University of Idaho                   | 1115                  | 633                      | 231                     | 1120                  | 608                      | 212                     |
| Public                                                                  | University of Illinois - Chicago      | 1120                  | 614                      | 227                     | 1140                  | 476                      | 165                     |
| Public                                                                  | Univ. of Illinois - Urbana-Champaign  | 1340                  | 100                      | 19                      | 1340                  | 93                       | 10                      |
| Public                                                                  | University of Iowa                    | 1225                  | 245                      | 77                      | 1225                  | 234                      | 67                      |
| Public                                                                  | University of Kansas - Lawrence       | 1240                  | 213                      | 68                      |                       |                          |                         |
| Public                                                                  | University of Kansas Medical Center   |                       |                          |                         |                       |                          |                         |
| Public                                                                  | University of Kentucky                | 1240                  | 213                      | 68                      | 1210                  | 257                      | 76                      |
| Public                                                                  | University of Louisville              | 1225                  | 245                      | 77                      | 1210                  | 257                      | 76                      |
| Public                                                                  | University of Maine - Orono           | 1150                  | 462                      | 171                     | 1150                  | 456                      | 159                     |
| Public                                                                  | University of Maryland - Baltimore    |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Univ. of Maryland - Baltimore County  | 1275                  | 167                      | 48                      | 1250                  | 196                      | 53                      |
| Public                                                                  | University of Maryland - College Park | 1380                  | 73                       | 9                       | 1375                  | 71                       | 7                       |
| Public                                                                  | Univ. of Massachusetts - Amherst      | 1295                  | 142                      | 38                      | 1270                  | 165                      | 45                      |
| Public                                                                  | Univ. of Mass. Med. Sch. - Worcester  |                       |                          |                         |                       |                          |                         |
| Private                                                                 | University of Miami                   | 1340                  | 100                      | 82                      | 1370                  | 72                       | 65                      |
| Public                                                                  | University of Michigan - Ann Arbor    | 1420                  | 47                       | 3                       | 1415                  | 43                       | 2                       |
| Public                                                                  | University of Minnesota - Twin Cities | 1325                  | 112                      | 25                      | 1325                  | 102                      | 17                      |
| Public                                                                  | University of Missouri - Columbia     | 1240                  | 213                      | 68                      | 1240                  | 206                      | 60                      |
| Public                                                                  | University of Montana - Missoula      | 1140                  | 482                      | 178                     | 1160                  | 400                      | 134                     |
| Public                                                                  | University of Nebraska - Lincoln      | 1225                  | 245                      | 77                      | 1225                  | 234                      | 67                      |
| Public                                                                  | University of Nebraska Medical Ctr.   |                       |                          |                         |                       |                          |                         |
| Public                                                                  | University of Nevada - Reno           | 1160                  | 413                      | 149                     | 1160                  | 400                      | 134                     |
| Public                                                                  | Univ. of New Hampshire - Durham       | 1180                  | 343                      | 116                     | 1165                  | 392                      | 130                     |
| Public                                                                  | Univ. of New Mexico - Albuquerque     | 1110                  | 648                      | 236                     | 1110                  | 631                      | 221                     |
| Public                                                                  | Univ. of North Carolina - Chapel Hill | 1400                  | 60                       | 6                       | 1385                  | 66                       | 6                       |
| Public                                                                  | University of North Dakota            | 1180                  | 343                      | 116                     | 1160                  | 400                      | 134                     |
| Private                                                                 | University of Notre Dame              | 1500                  | 9                        | 9                       | 1460                  | 19                       | 19                      |
| Public                                                                  | University of Oklahoma - HSC          |                       |                          |                         |                       |                          |                         |
| Public                                                                  | University of Oklahoma - Norman       | 1240                  | 213                      | 68                      | 1240                  | 206                      | 60                      |
| Public                                                                  | University of Oregon                  | 1185                  | 338                      | 113                     | 1175                  | 376                      | 123                     |
| Private                                                                 | University of Pennsylvania            | 1485                  | 19                       | 19                      | 1480                  | 14                       | 14                      |
| Public                                                                  | University of Pittsburgh - Pittsburgh | 1350                  | 96                       | 17                      | 1329                  | 101                      | 16                      |
| Public                                                                  | University of Rhode Island            | 1155                  | 449                      | 165                     | 1140                  | 476                      | 165                     |
| Private                                                                 | University of Rochester               | 1410                  | 55                       | 51                      | 1395                  | 61                       | 57                      |
| Public                                                                  | Univ. of South Carolina - Columbia    | 1275                  | 167                      | 48                      | 1295                  | 131                      | 32                      |
| Public                                                                  | University of South Florida - Tampa   | 1250                  | 205                      | 63                      | 1230                  | 229                      | 65                      |
| Private                                                                 | University of Southern California     | 1440                  | 37                       | 36                      | 1430                  | 32                       | 32                      |
| Public                                                                  | University of Tennessee - Knoxville   | 1310                  | 125                      | 30                      | 1280                  | 155                      | 40                      |
| Public                                                                  | University of Texas - Austin          | 1355                  | 88                       | 14                      | 1340                  | 93                       | 10                      |
| Public                                                                  | University of Texas - El Paso         | 1035                  | 1027                     | 395                     | 1025                  | 1039                     | 380                     |
| Public                                                                  | University of Texas HSC - Houston     |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Univ. of Texas HSC - San Antonio      |                       |                          |                         |                       |                          |                         |
| Public                                                                  | U. of Texas MD Anderson Cancer Ctr.   |                       |                          |                         |                       |                          |                         |
| Public                                                                  | U. of Texas Med. Branch - Galveston   |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Univ. of Texas SW Med. Ctr. - Dallas  |                       |                          |                         |                       |                          |                         |
| Public                                                                  | University of Utah                    | 1225                  | 245                      | 77                      | 1225                  | 234                      | 67                      |
| Public                                                                  | University of Vermont                 | 1270                  | 175                      | 52                      | 1265                  | 171                      | 48                      |
| Public                                                                  | University of Virginia                | 1415                  | 48                       | 4                       | 1405                  | 54                       | 4                       |

| 2016<br>Median<br>SAT | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Median<br>SAT | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Median<br>SAT | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|-----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|
| 1145                  | 463                      | 162                     | 1150                  | 246                      | 83                      | 1145                  | 273                      | 92                      |
| 1050                  | 794                      | 303                     | 1055                  | 535                      | 197                     | 1040                  | 650                      | 229                     |
| 1180                  | 351                      | 110                     | 1090                  | 403                      | 144                     | 1130                  | 286                      | 98                      |
| 1360                  | 68                       | 7                       | 1280                  | 94                       | 16                      | 1300                  | 82                       | 12                      |
| 1240                  | 180                      | 49                      | 1170                  | 210                      | 68                      | 1170                  | 215                      | 66                      |
| 1260                  | 155                      | 39                      | 1150                  | 246                      | 83                      | 1150                  | 252                      | 80                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1240                  | 180                      | 49                      | 1150                  | 246                      | 83                      | 1150                  | 252                      | 80                      |
| 1240                  | 180                      | 49                      | 1170                  | 210                      | 68                      | 1150                  | 252                      | 80                      |
| 1070                  | 716                      | 270                     | 1085                  | 441                      | 161                     | 1075                  | 481                      | 168                     |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1220                  | 209                      | 62                      | 1210                  | 152                      | 46                      | 1210                  | 162                      | 47                      |
| 1315                  | 103                      | 19                      | 1315                  | 78                       | 11                      | 1315                  | 77                       | 10                      |
| 1230                  | 200                      | 59                      | 1220                  | 138                      | 38                      | 1215                  | 157                      | 43                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1400                  | 49                       | 44                      | 1340                  | 64                       | 57                      | 1320                  | 70                       | 62                      |
| 1430                  | 35                       | 1                       | 1390                  | 38                       | 2                       | 1390                  | 38                       | 2                       |
| 1340                  | 83                       | 12                      | 1280                  | 94                       | 16                      | 1260                  | 107                      | 23                      |
| 1260                  | 155                      | 39                      | 1205                  | 160                      | 50                      | 1170                  | 215                      | 66                      |
| 1140                  | 467                      | 164                     | 1090                  | 403                      | 144                     | 1070                  | 491                      | 172                     |
| 1220                  | 209                      | 62                      | 1150                  | 246                      | 83                      | 1150                  | 252                      | 80                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1160                  | 406                      | 133                     | 1080                  | 452                      | 166                     | 1075                  | 481                      | 168                     |
| 1095                  | 685                      | 258                     | 1105                  | 378                      | 131                     | 1100                  | 403                      | 138                     |
| 1110                  | 583                      | 215                     | 1030                  | 642                      | 240                     | 1050                  | 560                      | 192                     |
| 1415                  | 42                       | 2                       | 1360                  | 51                       | 4                       | 1320                  | 70                       | 9                       |
| 1160                  | 406                      | 133                     | 1090                  | 403                      | 144                     | 1090                  | 420                      | 144                     |
| 1520                  | 4                        | 4                       | 1460                  | 15                       | 15                      | 1460                  | 13                       | 13                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1260                  | 155                      | 39                      | 1205                  | 160                      | 50                      | 1190                  | 184                      | 56                      |
| 1100                  | 678                      | 254                     | 1115                  | 332                      | 114                     | 1110                  | 347                      | 115                     |
| 1475                  | 19                       | 19                      | 1465                  | 13                       | 13                      | 1455                  | 18                       | 18                      |
| 1285                  | 131                      | 31                      | 1265                  | 104                      | 21                      | 1270                  | 103                      | 21                      |
| 1070                  | 716                      | 270                     | 1070                  | 462                      | 171                     | 1070                  | 491                      | 172                     |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1305                  | 110                      | 23                      | 1200                  | 180                      | 57                      | 1210                  | 162                      | 47                      |
| 1160                  | 406                      | 133                     | 1170                  | 210                      | 68                      | 1160                  | 240                      | 73                      |
| 1390                  | 56                       | 50                      | 1385                  | 41                       | 39                      | 1380                  | 43                       | 41                      |
| 1290                  | 118                      | 26                      | 1220                  | 138                      | 38                      | 1205                  | 164                      | 49                      |
| 1275                  | 135                      | 34                      | 1290                  | 90                       | 15                      | 1290                  | 94                       | 14                      |
| 925                   | 1187                     | 466                     | 935                   | 1074                     | 428                     | 935                   | 1114                     | 427                     |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1180                  | 351                      | 110                     | 1130                  | 288                      | 100                     | 1130                  | 286                      | 98                      |
| 1200                  | 239                      | 72                      | 1195                  | 183                      | 59                      | 1185                  | 209                      | 62                      |
| 1350                  | 78                       | 11                      | 1355                  | 58                       | 7                       | 1355                  | 56                       | 5                       |

| SAT Scores                                                              |                                       |                       |                          |                         |                       |                          |                         |
|-------------------------------------------------------------------------|---------------------------------------|-----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2018<br>Median<br>SAT | 2018<br>National<br>Rank | 2018<br>Control<br>Rank | 2017<br>Median<br>SAT | 2017<br>National<br>Rank | 2017<br>Control<br>Rank |
| Public                                                                  | University of Washington - Seattle    | 1340                  | 100                      | 19                      | 1305                  | 127                      | 29                      |
| Public                                                                  | University of Wisconsin - Madison     | 1355                  | 88                       | 14                      | 1340                  | 93                       | 10                      |
| Public                                                                  | University of Wyoming                 | 1210                  | 272                      | 87                      | 1195                  | 296                      | 87                      |
| Public                                                                  | Utah State University                 | 1195                  | 306                      | 102                     | 1180                  | 344                      | 108                     |
| Private                                                                 | Vanderbilt University                 | 1500                  | 9                        | 9                       | 1480                  | 14                       | 14                      |
| Public                                                                  | Virginia Commonwealth University      | 1165                  | 406                      | 145                     | 1165                  | 392                      | 130                     |
| Public                                                                  | Virginia Polytechnic Inst. and St. U. | 1285                  | 154                      | 43                      | 1270                  | 165                      | 45                      |
| Private                                                                 | Wake Forest University                |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Washington State Univ. - Pullman      | 1115                  | 633                      | 231                     | 1120                  | 608                      | 212                     |
| Private                                                                 | Washington University in St. Louis    | 1480                  | 21                       | 21                      | 1460                  | 19                       | 19                      |
| Public                                                                  | Wayne State University                | 1110                  | 648                      | 236                     | 1105                  | 690                      | 244                     |
| Private                                                                 | Weill Cornell Medical College         |                       |                          |                         |                       |                          |                         |
| Public                                                                  | West Virginia University              | 1180                  | 343                      | 116                     | 1180                  | 344                      | 108                     |
| Private                                                                 | Woods Hole Oceanographic Inst.        |                       |                          |                         |                       |                          |                         |
| Public                                                                  | Wright State University - Dayton      | 1095                  | 732                      | 268                     | 1110                  | 631                      | 221                     |
| Private                                                                 | Yale University                       | 1515                  | 5                        | 5                       | 1520                  | 4                        | 4                       |
| Private                                                                 | Yeshiva University                    | 1240                  | 213                      | 146                     | 1290                  | 149                      | 112                     |

| 2016<br>Median<br>SAT | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>Median<br>SAT | 2015<br>National<br>Rank | 2015<br>Control<br>Rank | 2014<br>Median<br>SAT | 2014<br>National<br>Rank | 2014<br>Control<br>Rank |
|-----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|
| 1245                  | 177                      | 47                      | 1245                  | 117                      | 29                      | 1230                  | 137                      | 36                      |
| 1360                  | 68                       | 7                       | 1300                  | 83                       | 13                      | 1280                  | 97                       | 17                      |
| 1180                  | 351                      | 110                     | 1130                  | 288                      | 100                     | 1130                  | 286                      | 98                      |
| 1160                  | 406                      | 133                     | 1090                  | 403                      | 144                     | 1070                  | 491                      | 172                     |
| 1520                  | 4                        | 4                       | 1485                  | 8                        | 8                       | 1460                  | 13                       | 13                      |
| 1090                  | 689                      | 260                     | 1095                  | 395                      | 138                     | 1105                  | 393                      | 132                     |
| 1210                  | 233                      | 70                      | 1210                  | 152                      | 46                      | 1215                  | 157                      | 43                      |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1048                  | 857                      | 324                     | 1030                  | 642                      | 240                     | 1030                  | 673                      | 237                     |
| 1500                  | 8                        | 8                       | 1460                  | 15                       | 15                      | 1460                  | 13                       | 13                      |
| 1160                  | 406                      | 133                     | 1070                  | 462                      | 171                     | 1070                  | 491                      | 172                     |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1160                  | 406                      | 133                     | 1110                  | 338                      | 117                     | 1090                  | 420                      | 144                     |
|                       |                          |                         |                       |                          |                         |                       |                          |                         |
| 1190                  | 283                      | 86                      | 1030                  | 642                      | 240                     |                       |                          |                         |
| 1510                  | 7                        | 7                       | 1515                  | 4                        | 4                       | 1505                  | 3                        | 3                       |
| 1225                  | 204                      | 143                     | 1250                  | 115                      | 88                      | 1240                  | 118                      | 90                      |

| National Merit Scholars                                                    |                                        |                                       |                          |                         |                                       |                          |                         |
|----------------------------------------------------------------------------|----------------------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                        | 2019<br>National<br>Merit<br>Scholars | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>National<br>Merit<br>Scholars | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                     | Arizona State University               | 136                                   | 12                       | 5                       | 151                                   | 12                       | 6                       |
| Public                                                                     | Auburn University                      | 34                                    | 66                       | 32                      | 49                                    | 45                       | 22                      |
| Public                                                                     | Augusta University                     | 1                                     | 231                      | 106                     | 1                                     | 239                      | 110                     |
| Private                                                                    | Baylor College of Medicine             |                                       |                          |                         |                                       |                          |                         |
| Private                                                                    | Boston University                      | 66                                    | 34                       | 17                      | 60                                    | 38                       | 20                      |
| Private                                                                    | Brown University                       | 87                                    | 23                       | 13                      | 58                                    | 40                       | 22                      |
| Private                                                                    | California Institute of Technology     | 40                                    | 53                       | 27                      | 37                                    | 58                       | 30                      |
| Private                                                                    | Carnegie Mellon University             | 51                                    | 44                       | 23                      | 37                                    | 58                       | 30                      |
| Private                                                                    | Case Western Reserve University        | 51                                    | 44                       | 23                      | 60                                    | 38                       | 20                      |
| Public                                                                     | Clemson University                     | 44                                    | 50                       | 24                      | 45                                    | 49                       | 23                      |
| Public                                                                     | Cleveland State University             | 1                                     | 231                      | 106                     | 1                                     | 239                      | 110                     |
| Private                                                                    | Cold Spring Harbor Laboratory          |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | Colorado State Univ. - Fort Collins    | 7                                     | 133                      | 67                      | 11                                    | 120                      | 61                      |
| Private                                                                    | Columbia University                    | 67                                    | 32                       | 15                      | 69                                    | 33                       | 17                      |
| Private                                                                    | Cornell University                     | 74                                    | 28                       | 14                      | 78                                    | 28                       | 14                      |
| Private                                                                    | Dartmouth College                      | 58                                    | 40                       | 21                      | 67                                    | 36                       | 19                      |
| Private                                                                    | Drexel University                      | 3                                     | 185                      | 97                      | 3                                     | 191                      | 100                     |
| Private                                                                    | Duke University                        | 119                                   | 17                       | 11                      | 106                                   | 20                       | 11                      |
| Private                                                                    | Emory University                       | 67                                    | 32                       | 15                      | 77                                    | 29                       | 15                      |
| Public                                                                     | Florida International University       | 0                                     | 304                      | 136                     | 0                                     | 310                      | 133                     |
| Public                                                                     | Florida State University               | 20                                    | 89                       | 48                      | 21                                    | 87                       | 48                      |
| Public                                                                     | George Mason University                | 0                                     | 304                      | 136                     | 0                                     | 310                      | 133                     |
| Private                                                                    | George Washington University           | 0                                     | 304                      | 169                     | 5                                     | 153                      | 77                      |
| Private                                                                    | Georgetown University                  | 36                                    | 61                       | 32                      | 38                                    | 56                       | 29                      |
| Public                                                                     | Georgia Institute of Technology        | 88                                    | 22                       | 10                      | 105                                   | 21                       | 10                      |
| Public                                                                     | Georgia State University               | 0                                     | 304                      | 136                     | 1                                     | 239                      | 110                     |
| Private                                                                    | Harvard University                     | 207                                   | 7                        | 5                       | 195                                   | 4                        | 3                       |
| Private                                                                    | Icahn School of Med. at Mount Sinai    |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | Indiana University - Bloomington       | 64                                    | 36                       | 18                      | 51                                    | 44                       | 21                      |
| Public                                                                     | Iowa State University                  | 34                                    | 66                       | 32                      | 27                                    | 70                       | 36                      |
| Private                                                                    | Johns Hopkins University               | 51                                    | 44                       | 23                      | 49                                    | 45                       | 24                      |
| Public                                                                     | Kansas State University                | 8                                     | 126                      | 63                      | 10                                    | 121                      | 62                      |
| Public                                                                     | Louisiana State Univ. - Baton Rouge    | 30                                    | 72                       | 38                      | 24                                    | 73                       | 38                      |
| Private                                                                    | Massachusetts Inst. of Technology      | 134                                   | 13                       | 8                       | 147                                   | 13                       | 7                       |
| Private                                                                    | Medical College of Wisconsin           |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | Medical University of South Carolina   |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | Michigan State University              | 51                                    | 44                       | 22                      | 53                                    | 43                       | 20                      |
| Public                                                                     | Mississippi State University           | 31                                    | 70                       | 36                      | 45                                    | 49                       | 23                      |
| Public                                                                     | Montana State University - Bozeman     | 9                                     | 115                      | 59                      | 9                                     | 125                      | 64                      |
| Public                                                                     | Naval Postgraduate School              |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | New Jersey Institute of Technology     | 0                                     | 304                      | 136                     | 2                                     | 206                      | 98                      |
| Public                                                                     | New Mexico State Univ. - Las Cruces    | 0                                     | 304                      | 136                     | 0                                     | 310                      | 133                     |
| Private                                                                    | New York University                    | 19                                    | 91                       | 42                      | 20                                    | 90                       | 41                      |
| Public                                                                     | North Carolina State University        | 9                                     | 115                      | 59                      | 7                                     | 138                      | 72                      |
| Private                                                                    | Northeastern University                | 155                                   | 10                       | 6                       | 118                                   | 18                       | 9                       |
| Private                                                                    | Northwestern University                | 244                                   | 4                        | 2                       | 172                                   | 9                        | 5                       |
| Public                                                                     | Ohio State University - Columbus       | 36                                    | 61                       | 30                      | 32                                    | 63                       | 32                      |
| Public                                                                     | Oklahoma State University - Stillwater | 23                                    | 81                       | 44                      | 22                                    | 84                       | 45                      |
| Public                                                                     | Oregon Health & Science University     |                                       |                          |                         |                                       |                          |                         |

# The Top American Research Universities

| 2017<br>National<br>Merit<br>Scholars | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>National<br>Merit<br>Scholars | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>National<br>Merit<br>Scholars | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| 126                                   | 18                       | 9                       | 109                                   | 19                       | 9                       | 112                                   | 17                       | 7                       |
| 59                                    | 35                       | 17                      | 60                                    | 32                       | 13                      | 64                                    | 30                       | 14                      |
| 3                                     | 196                      | 91                      | 2                                     | 209                      | 96                      | 3                                     | 193                      | 87                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 42                                    | 51                       | 26                      | 56                                    | 34                       | 20                      | 35                                    | 60                       | 31                      |
| 87                                    | 26                       | 13                      | 100                                   | 21                       | 12                      | 76                                    | 24                       | 14                      |
| 28                                    | 71                       | 33                      | 44                                    | 46                       | 27                      | 45                                    | 48                       | 27                      |
| 36                                    | 55                       | 29                      | 55                                    | 35                       | 21                      | 51                                    | 44                       | 25                      |
| 64                                    | 32                       | 17                      | 72                                    | 28                       | 16                      | 60                                    | 34                       | 19                      |
| 51                                    | 41                       | 22                      | 43                                    | 47                       | 20                      | 55                                    | 41                       | 19                      |
| 0                                     | 325                      | 140                     | 0                                     | 331                      | 145                     | 1                                     | 247                      | 107                     |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 8                                     | 132                      | 67                      | 9                                     | 127                      | 66                      | 4                                     | 173                      | 80                      |
| 68                                    | 29                       | 16                      | 67                                    | 30                       | 18                      | 78                                    | 23                       | 13                      |
| 76                                    | 27                       | 14                      | 81                                    | 23                       | 13                      | 72                                    | 26                       | 16                      |
| 41                                    | 52                       | 27                      | 49                                    | 43                       | 25                      | 64                                    | 30                       | 17                      |
| 3                                     | 196                      | 106                     | 4                                     | 169                      | 91                      | 7                                     | 143                      | 77                      |
| 98                                    | 22                       | 12                      | 106                                   | 20                       | 11                      | 108                                   | 19                       | 11                      |
| 47                                    | 44                       | 21                      | 54                                    | 38                       | 22                      | 58                                    | 38                       | 21                      |
| 1                                     | 238                      | 112                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |
| 25                                    | 75                       | 40                      | 22                                    | 80                       | 41                      | 22                                    | 84                       | 41                      |
| 0                                     | 325                      | 140                     | 1                                     | 243                      | 108                     | 1                                     | 247                      | 107                     |
| 21                                    | 82                       | 39                      | 17                                    | 92                       | 43                      | 17                                    | 96                       | 48                      |
| 35                                    | 57                       | 31                      | 33                                    | 63                       | 33                      | 32                                    | 68                       | 36                      |
| 65                                    | 31                       | 15                      | 55                                    | 35                       | 15                      | 59                                    | 36                       | 17                      |
| 0                                     | 325                      | 140                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |
| 219                                   | 4                        | 3                       | 233                                   | 3                        | 2                       | 209                                   | 4                        | 3                       |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 57                                    | 36                       | 18                      | 52                                    | 39                       | 17                      | 68                                    | 28                       | 12                      |
| 29                                    | 69                       | 37                      | 35                                    | 60                       | 28                      | 33                                    | 64                       | 31                      |
| 45                                    | 48                       | 25                      | 47                                    | 44                       | 26                      | 47                                    | 45                       | 26                      |
| 7                                     | 140                      | 69                      | 6                                     | 148                      | 74                      | 9                                     | 128                      | 60                      |
| 24                                    | 76                       | 41                      | 25                                    | 73                       | 36                      | 27                                    | 74                       | 34                      |
| 156                                   | 11                       | 7                       | 154                                   | 11                       | 7                       | 139                                   | 14                       | 9                       |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 54                                    | 40                       | 21                      | 34                                    | 62                       | 30                      | 43                                    | 51                       | 23                      |
| 35                                    | 57                       | 27                      | 37                                    | 56                       | 25                      | 37                                    | 56                       | 27                      |
| 12                                    | 111                      | 59                      | 12                                    | 112                      | 58                      | 7                                     | 143                      | 67                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 1                                     | 238                      | 112                     | 2                                     | 209                      | 96                      | 0                                     | 326                      | 139                     |
| 0                                     | 325                      | 140                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |
| 12                                    | 111                      | 53                      | 15                                    | 100                      | 47                      | 12                                    | 114                      | 59                      |
| 11                                    | 116                      | 61                      | 8                                     | 134                      | 68                      | 5                                     | 158                      | 73                      |
| 153                                   | 13                       | 9                       | 81                                    | 23                       | 13                      | 85                                    | 22                       | 12                      |
| 200                                   | 7                        | 5                       | 168                                   | 7                        | 6                       | 206                                   | 5                        | 4                       |
| 30                                    | 66                       | 34                      | 19                                    | 85                       | 45                      | 18                                    | 93                       | 46                      |
| 11                                    | 116                      | 61                      | 13                                    | 108                      | 56                      | 17                                    | 96                       | 49                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |

| National Merit Scholars                                                    |                                        |                                       |                          |                         |                                       |                          |                         |
|----------------------------------------------------------------------------|----------------------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                        | 2019<br>National<br>Merit<br>Scholars | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>National<br>Merit<br>Scholars | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                     | Oregon State University                | 5                                     | 153                      | 75                      | 18                                    | 95                       | 52                      |
| Public                                                                     | Penn. State Univ. - Hershey Med. Ctr.  |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | Pennsylvania State Univ. - Univ. Park  | 18                                    | 95                       | 51                      | 24                                    | 73                       | 38                      |
| Private                                                                    | Princeton University                   | 114                                   | 19                       | 12                      | 90                                    | 23                       | 13                      |
| Public                                                                     | Purdue University - West Lafayette     | 116                                   | 18                       | 7                       | 133                                   | 15                       | 8                       |
| Private                                                                    | Rensselaer Polytechnic Institute       | 18                                    | 95                       | 45                      | 32                                    | 63                       | 32                      |
| Private                                                                    | Rice University                        | 65                                    | 35                       | 18                      | 55                                    | 42                       | 23                      |
| Private                                                                    | Rockefeller University                 | 0                                     | 304                      | 169                     | 0                                     | 310                      | 178                     |
| Private                                                                    | Rush University                        | 0                                     | 304                      | 169                     | 0                                     | 310                      | 178                     |
| Public                                                                     | Rutgers University - New Brunswick     | 55                                    | 41                       | 20                      | 40                                    | 54                       | 27                      |
| Private                                                                    | Scripps Research Institute             | 0                                     | 304                      | 169                     | 0                                     | 310                      | 178                     |
| Private                                                                    | Stanford University                    | 124                                   | 16                       | 10                      | 157                                   | 10                       | 6                       |
| Public                                                                     | State Univ. of NY - Polytechnic Inst.  | 0                                     | 304                      | 136                     | 0                                     | 310                      | 133                     |
| Public                                                                     | Stony Brook University                 | 9                                     | 115                      | 59                      | 9                                     | 125                      | 64                      |
| Public                                                                     | Temple University                      | 1                                     | 231                      | 106                     | 3                                     | 191                      | 92                      |
| Public                                                                     | Texas A&M Univ. - College Station      | 188                                   | 9                        | 4                       | 178                                   | 7                        | 3                       |
| Private                                                                    | Thomas Jefferson University            | 0                                     | 304                      | 169                     | 0                                     | 310                      | 178                     |
| Private                                                                    | Tufts University                       | 38                                    | 56                       | 28                      | 48                                    | 47                       | 25                      |
| Private                                                                    | Tulane University                      | 35                                    | 63                       | 33                      | 24                                    | 73                       | 36                      |
| Public                                                                     | Uniformed Services Univ. of the HS     |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | University at Albany                   | 0                                     | 304                      | 136                     | 0                                     | 310                      | 133                     |
| Public                                                                     | University at Buffalo                  | 0                                     | 304                      | 136                     | 2                                     | 206                      | 98                      |
| Public                                                                     | University of Alabama - Birmingham     | 17                                    | 99                       | 54                      | 22                                    | 84                       | 45                      |
| Public                                                                     | University of Alabama - Huntsville     | 1                                     | 231                      | 106                     | 4                                     | 170                      | 84                      |
| Public                                                                     | University of Alaska - Fairbanks       | 0                                     | 304                      | 136                     | 0                                     | 310                      | 133                     |
| Public                                                                     | University of Arizona                  | 73                                    | 29                       | 15                      | 43                                    | 52                       | 25                      |
| Public                                                                     | University of Arkansas - Fayetteville  | 39                                    | 54                       | 27                      | 42                                    | 53                       | 26                      |
| Public                                                                     | Univ. of Arkansas for Med. Sciences    |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | University of California - Berkeley    | 132                                   | 14                       | 6                       | 124                                   | 16                       | 9                       |
| Public                                                                     | University of California - Davis       | 4                                     | 165                      | 79                      | 9                                     | 125                      | 64                      |
| Public                                                                     | University of California - Irvine      | 2                                     | 205                      | 95                      | 8                                     | 132                      | 69                      |
| Public                                                                     | University of California - Los Angeles | 79                                    | 27                       | 14                      | 77                                    | 29                       | 15                      |
| Public                                                                     | University of California - Riverside   | 0                                     | 304                      | 136                     | 0                                     | 310                      | 133                     |
| Public                                                                     | University of California - San Diego   | 18                                    | 95                       | 51                      | 19                                    | 93                       | 51                      |
| Public                                                                     | Univ. of California - San Francisco    |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | Univ. of California - Santa Barbara    | 7                                     | 133                      | 67                      | 4                                     | 170                      | 84                      |
| Public                                                                     | University of California - Santa Cruz  | 0                                     | 304                      | 136                     | 1                                     | 239                      | 110                     |
| Public                                                                     | University of Central Florida          | 91                                    | 21                       | 9                       | 83                                    | 26                       | 13                      |
| Private                                                                    | University of Chicago                  | 233                                   | 5                        | 3                       | 249                                   | 2                        | 2                       |
| Public                                                                     | University of Cincinnati - Cincinnati  | 30                                    | 72                       | 38                      | 77                                    | 29                       | 15                      |
| Public                                                                     | University of Colorado - Boulder       | 8                                     | 126                      | 63                      | 8                                     | 132                      | 69                      |
| Public                                                                     | U. of Colorado - Denver/Anschutz Med.  | 0                                     | 304                      | 136                     | 0                                     | 310                      | 133                     |
| Public                                                                     | Univ. of Connecticut - Health Center   |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | University of Connecticut - Storrs     | 4                                     | 165                      | 79                      | 4                                     | 170                      | 84                      |
| Private                                                                    | University of Dayton                   | 4                                     | 165                      | 87                      | 3                                     | 191                      | 100                     |
| Public                                                                     | University of Delaware                 | 3                                     | 185                      | 89                      | 2                                     | 206                      | 98                      |
| Public                                                                     | University of Florida                  | 270                                   | 1                        | 1                       | 231                                   | 3                        | 1                       |
| Public                                                                     | University of Georgia                  | 62                                    | 39                       | 19                      | 56                                    | 41                       | 19                      |
| Public                                                                     | University of Hawaii - Manoa           | 0                                     | 304                      | 136                     | 0                                     | 310                      | 133                     |

# The Top American Research Universities

| 2017<br>National<br>Merit<br>Scholars | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>National<br>Merit<br>Scholars | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>National<br>Merit<br>Scholars | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| 13                                    | 107                      | 57                      | 8                                     | 134                      | 68                      | 4                                     | 173                      | 80                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 18                                    | 92                       | 48                      | 16                                    | 97                       | 52                      | 21                                    | 85                       | 42                      |
| 123                                   | 19                       | 10                      | 117                                   | 18                       | 10                      | 146                                   | 11                       | 8                       |
| 141                                   | 15                       | 6                       | 125                                   | 15                       | 6                       | 94                                    | 21                       | 10                      |
| 21                                    | 82                       | 39                      | 25                                    | 73                       | 38                      | 19                                    | 90                       | 46                      |
| 57                                    | 36                       | 19                      | 67                                    | 30                       | 18                      | 59                                    | 36                       | 20                      |
| 0                                     | 325                      | 186                     | 0                                     | 331                      | 187                     | 0                                     | 326                      | 188                     |
| 0                                     | 325                      | 186                     | 0                                     | 331                      | 187                     | 0                                     | 326                      | 188                     |
| 45                                    | 48                       | 24                      | 35                                    | 60                       | 28                      | 35                                    | 60                       | 30                      |
| 0                                     | 325                      | 186                     | 0                                     | 331                      | 187                     | 0                                     | 326                      | 188                     |
| 168                                   | 8                        | 6                       | 179                                   | 6                        | 5                       | 176                                   | 7                        | 6                       |
| 0                                     | 325                      | 140                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |
| 19                                    | 89                       | 45                      | 24                                    | 77                       | 39                      | 25                                    | 77                       | 37                      |
| 4                                     | 180                      | 83                      | 0                                     | 331                      | 145                     | 1                                     | 247                      | 107                     |
| 148                                   | 14                       | 5                       | 122                                   | 16                       | 7                       | 142                                   | 13                       | 5                       |
| 0                                     | 325                      | 186                     | 0                                     | 331                      | 187                     | 0                                     | 326                      | 188                     |
| 36                                    | 55                       | 29                      | 50                                    | 40                       | 23                      | 55                                    | 41                       | 23                      |
| 32                                    | 63                       | 32                      | 39                                    | 54                       | 31                      | 33                                    | 64                       | 34                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 0                                     | 325                      | 140                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |
| 2                                     | 215                      | 100                     | 1                                     | 243                      | 108                     | 1                                     | 247                      | 107                     |
| 30                                    | 66                       | 34                      | 22                                    | 80                       | 41                      | 24                                    | 79                       | 38                      |
| 5                                     | 167                      | 77                      | 1                                     | 243                      | 108                     | 2                                     | 217                      | 91                      |
| 0                                     | 325                      | 140                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |
| 30                                    | 66                       | 34                      | 43                                    | 47                       | 20                      | 65                                    | 29                       | 13                      |
| 50                                    | 42                       | 23                      | 45                                    | 45                       | 19                      | 37                                    | 56                       | 27                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 136                                   | 16                       | 7                       | 161                                   | 8                        | 2                       | 129                                   | 16                       | 6                       |
| 5                                     | 167                      | 77                      | 4                                     | 169                      | 79                      | 3                                     | 193                      | 87                      |
| 1                                     | 238                      | 112                     | 3                                     | 190                      | 86                      | 2                                     | 217                      | 91                      |
| 57                                    | 36                       | 18                      | 43                                    | 47                       | 20                      | 43                                    | 51                       | 23                      |
| 0                                     | 325                      | 140                     | 1                                     | 243                      | 108                     | 1                                     | 247                      | 107                     |
| 16                                    | 98                       | 53                      | 19                                    | 85                       | 45                      | 18                                    | 93                       | 46                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 6                                     | 152                      | 74                      | 3                                     | 190                      | 86                      | 4                                     | 173                      | 80                      |
| 0                                     | 325                      | 140                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |
| 89                                    | 25                       | 13                      | 77                                    | 26                       | 11                      | 69                                    | 27                       | 11                      |
| 259                                   | 2                        | 1                       | 277                                   | 2                        | 1                       | 294                                   | 1                        | 1                       |
| 64                                    | 32                       | 16                      | 50                                    | 40                       | 18                      | 44                                    | 49                       | 22                      |
| 3                                     | 196                      | 91                      | 10                                    | 120                      | 61                      | 5                                     | 158                      | 73                      |
| 1                                     | 238                      | 112                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 5                                     | 167                      | 77                      | 2                                     | 209                      | 96                      | 2                                     | 217                      | 91                      |
| 4                                     | 180                      | 98                      | 1                                     | 243                      | 136                     | 4                                     | 173                      | 94                      |
| 2                                     | 215                      | 100                     | 3                                     | 190                      | 86                      | 3                                     | 193                      | 87                      |
| 202                                   | 6                        | 2                       | 158                                   | 9                        | 3                       | 146                                   | 11                       | 4                       |
| 45                                    | 48                       | 24                      | 39                                    | 54                       | 24                      | 42                                    | 54                       | 25                      |
| 0                                     | 325                      | 140                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |

| National Merit Scholars                                                    |                                       |                                       |                          |                         |                                       |                          |                         |
|----------------------------------------------------------------------------|---------------------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                       | 2019<br>National<br>Merit<br>Scholars | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>National<br>Merit<br>Scholars | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                     | University of Houston - Univ. Park    | 11                                    | 108                      | 56                      | 17                                    | 99                       | 54                      |
| Public                                                                     | University of Idaho                   | 9                                     | 115                      | 59                      | 14                                    | 108                      | 57                      |
| Public                                                                     | University of Illinois - Chicago      | 7                                     | 133                      | 67                      | 2                                     | 206                      | 98                      |
| Public                                                                     | Univ. of Illinois - Urbana-Champaign  | 39                                    | 54                       | 27                      | 24                                    | 73                       | 38                      |
| Public                                                                     | University of Iowa                    | 30                                    | 72                       | 38                      | 22                                    | 84                       | 45                      |
| Public                                                                     | University of Kansas - Lawrence       | 21                                    | 87                       | 46                      | 20                                    | 90                       | 50                      |
| Public                                                                     | University of Kansas Medical Center   |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | University of Kentucky                | 70                                    | 30                       | 16                      | 66                                    | 37                       | 18                      |
| Public                                                                     | University of Louisville              | 21                                    | 87                       | 46                      | 23                                    | 80                       | 42                      |
| Public                                                                     | University of Maine - Orono           | 4                                     | 165                      | 79                      | 4                                     | 170                      | 84                      |
| Public                                                                     | University of Maryland - Baltimore    |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | Univ. of Maryland - Baltimore County  | 1                                     | 231                      | 106                     | 4                                     | 170                      | 84                      |
| Public                                                                     | University of Maryland - College Park | 87                                    | 23                       | 11                      | 88                                    | 25                       | 12                      |
| Public                                                                     | Univ. of Massachusetts - Amherst      | 2                                     | 205                      | 95                      | 3                                     | 191                      | 92                      |
| Public                                                                     | Univ. of Mass. Med. Sch. - Worcester  |                                       |                          |                         |                                       |                          |                         |
| Private                                                                    | University of Miami                   | 28                                    | 75                       | 35                      | 24                                    | 73                       | 36                      |
| Public                                                                     | University of Michigan - Ann Arbor    | 68                                    | 31                       | 17                      | 80                                    | 27                       | 14                      |
| Public                                                                     | University of Minnesota - Twin Cities | 107                                   | 20                       | 8                       | 137                                   | 14                       | 7                       |
| Public                                                                     | University of Missouri - Columbia     | 41                                    | 52                       | 26                      | 29                                    | 68                       | 35                      |
| Public                                                                     | University of Montana - Missoula      | 4                                     | 165                      | 79                      | 3                                     | 191                      | 92                      |
| Public                                                                     | University of Nebraska - Lincoln      | 45                                    | 48                       | 23                      | 35                                    | 61                       | 30                      |
| Public                                                                     | Univ. of Nebraska Medical Center      |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | University of Nevada - Reno           | 7                                     | 133                      | 67                      | 15                                    | 105                      | 56                      |
| Public                                                                     | Univ. of New Hampshire - Durham       | 1                                     | 231                      | 106                     | 1                                     | 239                      | 110                     |
| Public                                                                     | Univ. of New Mexico - Albuquerque     | 8                                     | 126                      | 63                      | 13                                    | 112                      | 58                      |
| Public                                                                     | Univ. of North Carolina - Chapel Hill | 25                                    | 77                       | 41                      | 34                                    | 62                       | 31                      |
| Public                                                                     | University of North Dakota            | 3                                     | 185                      | 89                      | 6                                     | 142                      | 74                      |
| Private                                                                    | University of Notre Dame              | 53                                    | 42                       | 22                      | 69                                    | 33                       | 17                      |
| Public                                                                     | University of Oklahoma - HSC          |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | University of Oklahoma - Norman       | 87                                    | 23                       | 11                      | 156                                   | 11                       | 5                       |
| Public                                                                     | University of Oregon                  | 6                                     | 143                      | 73                      | 8                                     | 132                      | 69                      |
| Private                                                                    | University of Pennsylvania            | 126                                   | 15                       | 9                       | 111                                   | 19                       | 10                      |
| Public                                                                     | University of Pittsburgh - Pittsburgh | 20                                    | 89                       | 48                      | 17                                    | 99                       | 54                      |
| Public                                                                     | University of Rhode Island            | 0                                     | 304                      | 136                     | 0                                     | 310                      | 133                     |
| Private                                                                    | University of Rochester               | 38                                    | 56                       | 28                      | 28                                    | 69                       | 34                      |
| Public                                                                     | Univ. of South Carolina - Columbia    | 53                                    | 42                       | 21                      | 68                                    | 35                       | 17                      |
| Public                                                                     | University of South Florida - Tampa   | 35                                    | 63                       | 31                      | 23                                    | 80                       | 42                      |
| Private                                                                    | University of Southern California     | 265                                   | 2                        | 1                       | 276                                   | 1                        | 1                       |
| Public                                                                     | University of Tennessee - Knoxville   | 31                                    | 70                       | 36                      | 21                                    | 87                       | 48                      |
| Public                                                                     | University of Texas - Austin          | 86                                    | 26                       | 13                      | 90                                    | 23                       | 11                      |
| Public                                                                     | University of Texas - El Paso         | 0                                     | 304                      | 136                     | 0                                     | 310                      | 133                     |
| Public                                                                     | University of Texas HSC - Houston     |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | Univ. of Texas HSC - San Antonio      |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | U. of Texas MD Anderson Cancer Ctr.   |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | U. of Texas Med. Branch - Galveston   |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | Univ. of Texas SW Med. Ctr. - Dallas  |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | University of Utah                    | 37                                    | 59                       | 29                      | 36                                    | 60                       | 29                      |
| Public                                                                     | University of Vermont                 | 2                                     | 205                      | 95                      | 0                                     | 310                      | 133                     |
| Public                                                                     | University of Virginia                | 33                                    | 68                       | 34                      | 38                                    | 56                       | 28                      |

# The Top American Research Universities

| 2017<br>National<br>Merit<br>Scholars | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>National<br>Merit<br>Scholars | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>National<br>Merit<br>Scholars | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| 14                                    | 105                      | 56                      | 25                                    | 73                       | 36                      | 29                                    | 72                       | 33                      |
| 22                                    | 77                       | 42                      | 17                                    | 92                       | 50                      | 23                                    | 80                       | 39                      |
| 4                                     | 180                      | 83                      | 2                                     | 209                      | 96                      | 1                                     | 247                      | 107                     |
| 31                                    | 64                       | 32                      | 29                                    | 67                       | 32                      | 26                                    | 75                       | 35                      |
| 31                                    | 64                       | 32                      | 26                                    | 70                       | 35                      | 20                                    | 87                       | 43                      |
| 35                                    | 57                       | 27                      | 18                                    | 91                       | 49                      | 26                                    | 75                       | 35                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 103                                   | 21                       | 10                      | 99                                    | 22                       | 10                      | 111                                   | 18                       | 8                       |
| 22                                    | 77                       | 42                      | 20                                    | 83                       | 43                      | 19                                    | 90                       | 45                      |
| 7                                     | 140                      | 69                      | 6                                     | 148                      | 74                      | 2                                     | 217                      | 91                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 4                                     | 180                      | 83                      | 3                                     | 190                      | 86                      | 2                                     | 217                      | 91                      |
| 66                                    | 30                       | 14                      | 55                                    | 35                       | 15                      | 61                                    | 33                       | 15                      |
| 0                                     | 325                      | 140                     | 1                                     | 243                      | 108                     | 1                                     | 247                      | 107                     |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 22                                    | 77                       | 36                      | 36                                    | 57                       | 32                      | 35                                    | 60                       | 31                      |
| 90                                    | 23                       | 11                      | 60                                    | 32                       | 13                      | 56                                    | 40                       | 18                      |
| 159                                   | 10                       | 4                       | 150                                   | 12                       | 5                       | 147                                   | 10                       | 3                       |
| 17                                    | 94                       | 50                      | 13                                    | 108                      | 56                      | 18                                    | 93                       | 46                      |
| 1                                     | 238                      | 112                     | 2                                     | 209                      | 96                      | 2                                     | 217                      | 91                      |
| 35                                    | 57                       | 27                      | 36                                    | 57                       | 26                      | 47                                    | 45                       | 20                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 19                                    | 89                       | 45                      | 10                                    | 120                      | 61                      | 16                                    | 98                       | 50                      |
| 0                                     | 325                      | 140                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |
| 9                                     | 128                      | 65                      | 20                                    | 83                       | 43                      | 14                                    | 106                      | 55                      |
| 29                                    | 69                       | 37                      | 28                                    | 69                       | 34                      | 20                                    | 87                       | 43                      |
| 7                                     | 140                      | 69                      | 0                                     | 331                      | 145                     | 2                                     | 217                      | 91                      |
| 48                                    | 43                       | 20                      | 43                                    | 47                       | 28                      | 57                                    | 39                       | 22                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 317                                   | 1                        | 1                       | 279                                   | 1                        | 1                       | 288                                   | 2                        | 1                       |
| 4                                     | 180                      | 83                      | 9                                     | 127                      | 66                      | 6                                     | 152                      | 69                      |
| 112                                   | 20                       | 11                      | 134                                   | 14                       | 9                       | 139                                   | 14                       | 9                       |
| 12                                    | 111                      | 59                      | 25                                    | 73                       | 36                      | 16                                    | 98                       | 50                      |
| 0                                     | 325                      | 140                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |
| 27                                    | 72                       | 34                      | 24                                    | 77                       | 39                      | 37                                    | 56                       | 30                      |
| 55                                    | 39                       | 20                      | 36                                    | 57                       | 26                      | 46                                    | 47                       | 21                      |
| 15                                    | 100                      | 54                      | 12                                    | 112                      | 58                      | 9                                     | 128                      | 60                      |
| 257                                   | 3                        | 2                       | 230                                   | 4                        | 3                       | 226                                   | 3                        | 2                       |
| 20                                    | 87                       | 44                      | 19                                    | 85                       | 45                      | 23                                    | 80                       | 39                      |
| 90                                    | 23                       | 11                      | 74                                    | 27                       | 12                      | 60                                    | 34                       | 16                      |
| 0                                     | 325                      | 140                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 33                                    | 62                       | 31                      | 33                                    | 63                       | 31                      | 33                                    | 64                       | 31                      |
| 1                                     | 238                      | 112                     | 10                                    | 120                      | 61                      | 10                                    | 120                      | 57                      |
| 41                                    | 52                       | 26                      | 29                                    | 67                       | 32                      | 36                                    | 59                       | 29                      |

| National Merit Scholars                                                    |                                       |                                       |                          |                         |                                       |                          |                         |
|----------------------------------------------------------------------------|---------------------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                       | 2019<br>National<br>Merit<br>Scholars | 2019<br>National<br>Rank | 2019<br>Control<br>Rank | 2018<br>National<br>Merit<br>Scholars | 2018<br>National<br>Rank | 2018<br>Control<br>Rank |
| Public                                                                     | University of Washington - Seattle    | 25                                    | 77                       | 41                      | 27                                    | 70                       | 36                      |
| Public                                                                     | University of Wisconsin - Madison     | 22                                    | 85                       | 45                      | 24                                    | 73                       | 38                      |
| Public                                                                     | University of Wyoming                 | 5                                     | 153                      | 75                      | 6                                     | 142                      | 74                      |
| Public                                                                     | Utah State University                 | 3                                     | 185                      | 89                      | 2                                     | 206                      | 98                      |
| Private                                                                    | Vanderbilt University                 | 222                                   | 6                        | 4                       | 182                                   | 6                        | 4                       |
| Public                                                                     | Virginia Commonwealth University      | 8                                     | 126                      | 63                      | 6                                     | 142                      | 74                      |
| Public                                                                     | Virginia Polytechnic Inst. and St. U. | 5                                     | 153                      | 75                      | 5                                     | 153                      | 77                      |
| Private                                                                    | Wake Forest University                | 3                                     | 185                      | 97                      | 4                                     | 170                      | 87                      |
| Public                                                                     | Washington State Univ. - Pullman      | 5                                     | 153                      | 75                      | 4                                     | 170                      | 84                      |
| Private                                                                    | Washington University in St. Louis    | 35                                    | 63                       | 33                      | 45                                    | 49                       | 27                      |
| Public                                                                     | Wayne State University                | 6                                     | 143                      | 73                      | 2                                     | 206                      | 98                      |
| Private                                                                    | Weill Cornell Medical College         |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | West Virginia University              | 18                                    | 95                       | 51                      | 18                                    | 95                       | 52                      |
| Private                                                                    | Woods Hole Oceanographic Inst.        |                                       |                          |                         |                                       |                          |                         |
| Public                                                                     | Wright State University - Dayton      | 0                                     | 304                      | 136                     | 0                                     | 310                      | 133                     |
| Private                                                                    | Yale University                       | 140                                   | 11                       | 7                       | 124                                   | 16                       | 8                       |
| Private                                                                    | Yeshiva University                    | 2                                     | 205                      | 111                     | 1                                     | 239                      | 130                     |

| 2017<br>National<br>Merit<br>Scholars | 2017<br>National<br>Rank | 2017<br>Control<br>Rank | 2016<br>National<br>Merit<br>Scholars | 2016<br>National<br>Rank | 2016<br>Control<br>Rank | 2015<br>National<br>Merit<br>Scholars | 2015<br>National<br>Rank | 2015<br>Control<br>Rank |
|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------------|-------------------------|
| 15                                    | 100                      | 54                      | 23                                    | 79                       | 40                      | 12                                    | 114                      | 56                      |
| 19                                    | 89                       | 45                      | 17                                    | 92                       | 50                      | 15                                    | 102                      | 53                      |
| 3                                     | 196                      | 91                      | 2                                     | 209                      | 96                      | 5                                     | 158                      | 73                      |
| 4                                     | 180                      | 83                      | 0                                     | 331                      | 145                     | 1                                     | 247                      | 107                     |
| 219                                   | 4                        | 3                       | 220                                   | 5                        | 4                       | 206                                   | 5                        | 4                       |
| 5                                     | 167                      | 77                      | 10                                    | 120                      | 61                      | 0                                     | 326                      | 139                     |
| 5                                     | 167                      | 77                      | 0                                     | 331                      | 145                     | 4                                     | 173                      | 80                      |
| 2                                     | 215                      | 116                     | 2                                     | 209                      | 114                     | 0                                     | 326                      | 188                     |
| 11                                    | 116                      | 61                      | 2                                     | 209                      | 96                      | 5                                     | 158                      | 73                      |
| 38                                    | 54                       | 28                      | 33                                    | 63                       | 33                      | 32                                    | 68                       | 36                      |
| 6                                     | 152                      | 74                      | 10                                    | 120                      | 61                      | 7                                     | 143                      | 67                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 17                                    | 94                       | 50                      | 19                                    | 85                       | 45                      | 10                                    | 120                      | 57                      |
|                                       |                          |                         |                                       |                          |                         |                                       |                          |                         |
| 0                                     | 325                      | 140                     | 0                                     | 331                      | 145                     | 0                                     | 326                      | 139                     |
| 156                                   | 11                       | 7                       | 147                                   | 13                       | 8                       | 166                                   | 8                        | 7                       |
| 0                                     | 325                      | 186                     | 3                                     | 190                      | 105                     | 0                                     | 326                      | 188                     |

# The Top American Research Universities

| Change: Research                                                        |                                        | Total Research in Constant 1983 Dollars |                                       |                                            |                                                |                                         |                                        |
|-------------------------------------------------------------------------|----------------------------------------|-----------------------------------------|---------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                        | 2018<br>Total<br>Research<br>x \$1000   | 2009<br>Total<br>Research<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| Public                                                                  | Arizona State University               | 147,765                                 | 94,978                                | 52,786                                     | 55.6%                                          | 22                                      | 17                                     |
| Public                                                                  | Auburn University                      | 51,059                                  | 53,796                                | -2,737                                     | -5.1%                                          | -8                                      | -6                                     |
| Public                                                                  | Augusta University                     | 30,399                                  | 20,893                                | 9,506                                      | 45.5%                                          | 27                                      | 25                                     |
| Private                                                                 | Baylor College of Medicine             | 184,571                                 | 164,444                               | 20,127                                     | 12.2%                                          | -2                                      | -2                                     |
| Private                                                                 | Boston University                      | 121,660                                 | 93,338                                | 28,322                                     | 30.3%                                          | 13                                      | 3                                      |
| Private                                                                 | Brandeis University                    | 19,143                                  | 18,226                                | 918                                        | 5.0%                                           | 5                                       | -1                                     |
| Private                                                                 | Brown University                       | 61,402                                  | 57,707                                | 3,695                                      | 6.4%                                           | 1                                       | -1                                     |
| Private                                                                 | California Institute of Technology     | 116,155                                 | 99,874                                | 16,280                                     | 16.3%                                          | 3                                       | 1                                      |
| Private                                                                 | Carnegie Mellon University             | 95,541                                  | 77,087                                | 18,454                                     | 23.9%                                          | 9                                       | -2                                     |
| Private                                                                 | Case Western Reserve University        | 123,930                                 | 152,284                               | -28,354                                    | -18.6%                                         | -19                                     | -3                                     |
| Public                                                                  | Clemson University                     | 44,157                                  | 71,441                                | -27,285                                    | -38.2%                                         | -38                                     | -27                                    |
| Public                                                                  | Cleveland State University             | 23,651                                  | 5,172                                 | 18,479                                     | 357.3%                                         | 109                                     | 83                                     |
| Private                                                                 | Cold Spring Harbor Laboratory          | 29,683                                  |                                       |                                            |                                                |                                         |                                        |
| Public                                                                  | Colorado State Univ. - Fort Collins    | 100,140                                 | 108,056                               | -7,916                                     | -7.3%                                          | -12                                     | -7                                     |
| Private                                                                 | Columbia University                    | 258,948                                 | 200,826                               | 58,123                                     | 28.9%                                          | 3                                       | -1                                     |
| Private                                                                 | Cornell University                     | 180,528                                 | 167,907                               | 12,621                                     | 7.5%                                           | -7                                      | -5                                     |
| Private                                                                 | Dartmouth College                      | 84,707                                  | 68,419                                | 16,288                                     | 23.8%                                          | 13                                      | 1                                      |
| Private                                                                 | Drexel University                      | 40,428                                  | 36,933                                | 3,494                                      | 9.5%                                           | 0                                       | -4                                     |
| Private                                                                 | Duke University                        | 339,857                                 | 280,688                               | 59,170                                     | 21.1%                                          | 0                                       | -1                                     |
| Private                                                                 | Emory University                       | 197,139                                 | 161,487                               | 35,652                                     | 22.1%                                          | 2                                       | 0                                      |
| Public                                                                  | Florida International University       | 44,676                                  | 35,028                                | 9,648                                      | 27.5%                                          | 13                                      | 12                                     |
| Public                                                                  | Florida State University               | 75,457                                  | 66,727                                | 8,730                                      | 13.1%                                          | 7                                       | 6                                      |
| Public                                                                  | George Mason University                | 30,049                                  | 26,550                                | 3,498                                      | 13.2%                                          | 7                                       | 6                                      |
| Private                                                                 | George Washington University           | 68,954                                  | 57,515                                | 11,439                                     | 19.9%                                          | 8                                       | 3                                      |
| Private                                                                 | Georgetown University                  | 57,343                                  | 52,200                                | 5,143                                      | 9.9%                                           | 7                                       | 1                                      |
| Public                                                                  | Georgia Institute of Technology        | 239,687                                 | 191,102                               | 48,586                                     | 25.4%                                          | 3                                       | 5                                      |
| Public                                                                  | Georgia State University               | 40,652                                  | 28,441                                | 12,211                                     | 42.9%                                          | 19                                      | 18                                     |
| Private                                                                 | Harvard University                     | 315,043                                 | 165,808                               | 149,235                                    | 90.0%                                          | 20                                      | 7                                      |
| Private                                                                 | Icahn School of Med. at Mount Sinai    | 175,569                                 | 108,475                               | 67,094                                     | 61.9%                                          | 18                                      | 4                                      |
| Public                                                                  | Indiana University - Bloomington       | 154,854                                 | 55,188                                | 99,666                                     | 180.6%                                         | 61                                      | 43                                     |
| Public                                                                  | Iowa State University                  | 94,612                                  | 82,119                                | 12,493                                     | 15.2%                                          | 5                                       | 8                                      |
| Private                                                                 | Johns Hopkins University               | 780,031                                 | 615,219                               | 164,812                                    | 26.8%                                          | 0                                       | 0                                      |
| Public                                                                  | Kansas State University                | 55,990                                  | 50,341                                | 5,649                                      | 11.2%                                          | 7                                       | 6                                      |
| Public                                                                  | Louisiana State Univ. - Baton Rouge    | 78,838                                  | 99,918                                | -21,080                                    | -21.1%                                         | -24                                     | -15                                    |
| Private                                                                 | Massachusetts Inst. of Technology      | 268,172                                 | 241,423                               | 26,749                                     | 11.1%                                          | -4                                      | -2                                     |
| Private                                                                 | Medical College of Wisconsin           | 63,954                                  | 60,584                                | 3,371                                      | 5.6%                                           | 1                                       | -1                                     |
| Public                                                                  | Medical University of South Carolina   | 80,018                                  | 69,309                                | 10,709                                     | 15.5%                                          | 8                                       | 8                                      |
| Public                                                                  | Michigan State University              | 199,417                                 | 130,577                               | 68,840                                     | 52.7%                                          | 16                                      | 10                                     |
| Public                                                                  | Mississippi State University           | 71,096                                  | 77,208                                | -6,112                                     | -7.9%                                          | -12                                     | -7                                     |
| Public                                                                  | Montana State University - Bozeman     | 36,069                                  | 43,977                                | -7,908                                     | -18.0%                                         | -20                                     | -14                                    |
| Public                                                                  | Naval Postgraduate School              | 15,988                                  | 30,493                                | -14,504                                    | -47.6%                                         | -42                                     | -34                                    |
| Public                                                                  | New Jersey Institute of Technology     | 30,917                                  | 32,864                                | -1,947                                     | -5.9%                                          | -5                                      | -2                                     |
| Public                                                                  | New Mexico State Univ. - Las Cruces    | 31,637                                  | 50,664                                | -19,028                                    | -37.6%                                         | -32                                     | -26                                    |
| Private                                                                 | New York University                    | 250,893                                 | 113,716                               | 137,177                                    | 120.6%                                         | 34                                      | 11                                     |
| Public                                                                  | North Carolina State University        | 149,186                                 | 134,006                               | 15,180                                     | 11.3%                                          | -2                                      | -2                                     |
| Private                                                                 | Northeastern University                | 41,136                                  | 21,927                                | 19,208                                     | 87.6%                                          | 35                                      | 4                                      |
| Private                                                                 | Northwestern University                | 220,911                                 | 177,100                               | 43,810                                     | 24.7%                                          | 1                                       | -2                                     |
| Public                                                                  | Ohio State University - Columbus       | 245,514                                 | 257,149                               | -11,635                                    | -4.5%                                          | -11                                     | -5                                     |
| Public                                                                  | Oklahoma State University - Stillwater | 46,560                                  | 44,369                                | 2,191                                      | 4.9%                                           | -2                                      | 0                                      |

# The Top American Research Universities

| Federal Research in Constant 1983 Dollars |                                         |                                            |                                                |                                         |                                        | Non-Federal Research in Constant 1983 Dollars |                                             |                                            |                                                |                                         |                                        |
|-------------------------------------------|-----------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|-----------------------------------------------|---------------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|
| 2018<br>Federal<br>Research<br>x \$1000   | 2009<br>Federal<br>Research<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank | 2018<br>Non-Federal<br>Research<br>x \$1000   | 2009<br>Non-Federal<br>Research<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| 65,549                                    | 45,954                                  | 19,595                                     | 42.6%                                          | 17                                      | 12                                     | 82,215                                        | 49,024                                      | 33,191                                     | 67.7%                                          | 19                                      | 20                                     |
| 16,687                                    | 20,038                                  | -3,351                                     | -16.7%                                         | -5                                      | -4                                     | 34,372                                        | 33,758                                      | 614                                        | 1.8%                                           | -13                                     | -5                                     |
| 14,926                                    | 14,452                                  | 474                                        | 3.3%                                           | 15                                      | 14                                     | 15,473                                        | 6,441                                       | 9,032                                      | 140.2%                                         | 42                                      | 36                                     |
| 89,335                                    | 96,074                                  | -6,739                                     | -7.0%                                          | -7                                      | 0                                      | 95,236                                        | 68,370                                      | 26,866                                     | 39.3%                                          | 1                                       | -4                                     |
| 77,443                                    | 86,066                                  | -8,623                                     | -10.0%                                         | -6                                      | -1                                     | 44,217                                        | 7,272                                       | 36,945                                     | 508.0%                                         | 109                                     | 22                                     |
| 13,674                                    | 13,983                                  | -308                                       | -2.2%                                          | 13                                      | 0                                      | 5,469                                         | 4,243                                       | 1,226                                      | 28.9%                                          | 6                                       | -2                                     |
| 43,283                                    | 34,823                                  | 8,460                                      | 24.3%                                          | 19                                      | 5                                      | 18,120                                        | 22,884                                      | -4,765                                     | -20.8%                                         | -33                                     | -14                                    |
| 83,086                                    | 89,166                                  | -6,081                                     | -6.8%                                          | -5                                      | 0                                      | 33,069                                        | 10,708                                      | 22,361                                     | 208.8%                                         | 71                                      | 15                                     |
| 57,961                                    | 62,578                                  | -4,617                                     | -7.4%                                          | -6                                      | -1                                     | 37,579                                        | 14,509                                      | 23,071                                     | 159.0%                                         | 60                                      | 10                                     |
| 99,266                                    | 111,807                                 | -12,541                                    | -11.2%                                         | -12                                     | -4                                     | 24,665                                        | 40,477                                      | -15,813                                    | -39.1%                                         | -55                                     | -19                                    |
| 19,197                                    | 20,692                                  | -1,495                                     | -7.2%                                          | -1                                      | 0                                      | 24,960                                        | 50,750                                      | -25,790                                    | -50.8%                                         | -61                                     | -41                                    |
| 15,962                                    | 1,840                                   | 14,122                                     | 767.6%                                         | 165                                     | 127                                    | 7,689                                         | 3,332                                       | 4,357                                      | 130.8%                                         | 49                                      | 43                                     |
| 16,555                                    |                                         |                                            |                                                |                                         |                                        | 13,128                                        |                                             |                                            |                                                |                                         |                                        |
| 70,907                                    | 76,467                                  | -5,560                                     | -7.3%                                          | -4                                      | -3                                     | 29,233                                        | 31,589                                      | -2,356                                     | -7.5%                                          | -25                                     | -15                                    |
| 193,126                                   | 168,737                                 | 24,390                                     | 14.5%                                          | 3                                       | 1                                      | 65,822                                        | 32,089                                      | 33,733                                     | 105.1%                                         | 23                                      | 2                                      |
| 85,283                                    | 84,998                                  | 285                                        | 0.3%                                           | -1                                      | 3                                      | 95,245                                        | 82,909                                      | 12,336                                     | 14.9%                                          | -6                                      | -7                                     |
| 41,792                                    | 44,398                                  | -2,606                                     | -5.9%                                          | -7                                      | -4                                     | 42,916                                        | 24,021                                      | 18,894                                     | 78.7%                                          | 26                                      | 2                                      |
| 21,151                                    | 23,862                                  | -2,711                                     | -11.4%                                         | -2                                      | -2                                     | 19,277                                        | 13,071                                      | 6,206                                      | 47.5%                                          | 11                                      | -3                                     |
| 189,825                                   | 165,182                                 | 24,643                                     | 14.9%                                          | 4                                       | 1                                      | 150,032                                       | 115,506                                     | 34,526                                     | 29.9%                                          | 4                                       | -1                                     |
| 116,289                                   | 106,552                                 | 9,737                                      | 9.1%                                           | 1                                       | 0                                      | 80,850                                        | 54,935                                      | 25,915                                     | 47.2%                                          | 6                                       | -2                                     |
| 20,244                                    | 19,339                                  | 905                                        | 4.7%                                           | 10                                      | 10                                     | 24,432                                        | 15,690                                      | 8,743                                      | 55.7%                                          | 13                                      | 15                                     |
| 36,111                                    | 40,486                                  | -4,375                                     | -10.8%                                         | -5                                      | -5                                     | 39,346                                        | 26,241                                      | 13,105                                     | 49.9%                                          | 16                                      | 18                                     |
| 15,997                                    | 18,443                                  | -2,446                                     | -13.3%                                         | -1                                      | 1                                      | 14,052                                        | 8,107                                       | 5,945                                      | 73.3%                                          | 23                                      | 22                                     |
| 44,107                                    | 43,591                                  | 517                                        | 1.2%                                           | 0                                       | 0                                      | 24,847                                        | 13,924                                      | 10,922                                     | 78.4%                                          | 27                                      | 2                                      |
| 28,443                                    | 40,842                                  | -12,399                                    | -30.4%                                         | -19                                     | -4                                     | 28,900                                        | 11,358                                      | 17,542                                     | 154.4%                                         | 51                                      | 8                                      |
| 176,380                                   | 102,913                                 | 73,467                                     | 71.4%                                          | 16                                      | 7                                      | 63,307                                        | 88,188                                      | -24,881                                    | -28.2%                                         | -34                                     | -16                                    |
| 16,732                                    | 9,610                                   | 7,122                                      | 74.1%                                          | 43                                      | 35                                     | 23,920                                        | 18,831                                      | 5,088                                      | 27.0%                                          | -5                                      | 3                                      |
| 172,464                                   | 140,299                                 | 32,165                                     | 22.9%                                          | 2                                       | 2                                      | 142,580                                       | 25,509                                      | 117,070                                    | 458.9%                                         | 81                                      | 19                                     |
| 112,131                                   | 92,715                                  | 19,416                                     | 20.9%                                          | 8                                       | 4                                      | 63,438                                        | 15,760                                      | 47,678                                     | 302.5%                                         | 79                                      | 14                                     |
| 73,636                                    | 25,014                                  | 48,622                                     | 194.4%                                         | 69                                      | 53                                     | 81,219                                        | 30,174                                      | 51,044                                     | 169.2%                                         | 38                                      | 32                                     |
| 38,323                                    | 37,614                                  | 709                                        | 1.9%                                           | 6                                       | 5                                      | 56,289                                        | 44,505                                      | 11,784                                     | 26.5%                                          | -1                                      | 6                                      |
| 663,206                                   | 532,320                                 | 130,886                                    | 24.6%                                          | 0                                       | 0                                      | 116,825                                       | 82,899                                      | 33,926                                     | 40.9%                                          | 4                                       | -4                                     |
| 22,065                                    | 19,392                                  | 2,673                                      | 13.8%                                          | 16                                      | 15                                     | 33,925                                        | 30,949                                      | 2,976                                      | 9.6%                                           | -9                                      | -3                                     |
| 24,421                                    | 28,802                                  | -4,381                                     | -15.2%                                         | -7                                      | -3                                     | 54,417                                        | 71,116                                      | -16,699                                    | -23.5%                                         | -31                                     | -17                                    |
| 147,851                                   | 181,173                                 | -33,322                                    | -18.4%                                         | -11                                     | -5                                     | 120,321                                       | 60,250                                      | 60,071                                     | 99.7%                                          | 23                                      | 5                                      |
| 33,035                                    | 40,846                                  | -7,811                                     | -19.1%                                         | -12                                     | -3                                     | 30,919                                        | 19,737                                      | 11,182                                     | 56.7%                                          | 13                                      | -2                                     |
| 40,905                                    | 37,400                                  | 3,505                                      | 9.4%                                           | 10                                      | 9                                      | 39,112                                        | 31,909                                      | 7,204                                      | 22.6%                                          | 0                                       | 4                                      |
| 100,541                                   | 55,964                                  | 44,577                                     | 79.7%                                          | 31                                      | 21                                     | 98,876                                        | 74,613                                      | 24,263                                     | 32.5%                                          | 2                                       | 5                                      |
| 26,676                                    | 38,550                                  | -11,873                                    | -30.8%                                         | -16                                     | -11                                    | 44,419                                        | 38,658                                      | 5,761                                      | 14.9%                                          | -5                                      | 1                                      |
| 20,274                                    | 25,761                                  | -5,488                                     | -21.3%                                         | -13                                     | -9                                     | 15,796                                        | 18,215                                      | -2,420                                     | -13.3%                                         | -22                                     | -11                                    |
| 12,889                                    | 30,123                                  | -17,233                                    | -57.2%                                         | -49                                     | -38                                    | 3,099                                         | 370                                         | 2,729                                      | 736.7%                                         | 156                                     | 101                                    |
| 19,783                                    | 14,672                                  | 5,111                                      | 34.8%                                          | 33                                      | 29                                     | 11,134                                        | 18,192                                      | -7,058                                     | -38.8%                                         | -45                                     | -29                                    |
| 18,027                                    | 31,709                                  | -13,681                                    | -43.1%                                         | -30                                     | -23                                    | 13,609                                        | 18,956                                      | -5,346                                     | -28.2%                                         | -41                                     | -26                                    |
| 112,871                                   | 72,967                                  | 39,904                                     | 54.7%                                          | 25                                      | 9                                      | 138,022                                       | 40,749                                      | 97,273                                     | 238.7%                                         | 48                                      | 10                                     |
| 65,152                                    | 48,097                                  | 17,055                                     | 35.5%                                          | 11                                      | 7                                      | 84,034                                        | 85,909                                      | -1,876                                     | -2.2%                                          | -13                                     | -2                                     |
| 27,517                                    | 13,358                                  | 14,159                                     | 106.0%                                         | 60                                      | 10                                     | 13,619                                        | 8,570                                       | 5,049                                      | 58.9%                                          | 16                                      | -2                                     |
| 133,857                                   | 96,984                                  | 36,873                                     | 38.0%                                          | 12                                      | 6                                      | 87,054                                        | 80,116                                      | 6,937                                      | 8.7%                                           | -7                                      | -7                                     |
| 130,325                                   | 122,654                                 | 7,670                                      | 6.3%                                           | -3                                      | -1                                     | 115,189                                       | 134,494                                     | -19,305                                    | -14.4%                                         | -15                                     | -8                                     |
| 12,915                                    | 15,025                                  | -2,109                                     | -14.0%                                         | 4                                       | 6                                      | 33,645                                        | 29,344                                      | 4,301                                      | 14.7%                                          | -8                                      | -2                                     |

| Change: Research                                                        |                                         | Total Research in Constant 1983 Dollars |                                       |                                            |                                                |                                         |                                        |
|-------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                         | 2018<br>Total<br>Research<br>x \$1000   | 2009<br>Total<br>Research<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| Public                                                                  | Oregon Health & Science University      | 105,781                                 | 110,311                               | -4,530                                     | -4.1%                                          | -13                                     | -7                                     |
| Public                                                                  | Oregon State University                 | 79,598                                  | 68,828                                | 10,770                                     | 15.6%                                          | 8                                       | 8                                      |
| Public                                                                  | Penn. State Univ. - Hershey Med. Ctr.   | 30,770                                  | 29,535                                | 1,234                                      | 4.2%                                           | 2                                       | 3                                      |
| Public                                                                  | Pennsylvania State Univ. - Univ. Park   | 221,451                                 | 227,078                               | -5,627                                     | -2.5%                                          | -11                                     | -6                                     |
| Private                                                                 | Princeton University                    | 99,203                                  | 71,281                                | 27,922                                     | 39.2%                                          | 20                                      | 3                                      |
| Public                                                                  | Purdue University - West Lafayette      | 162,801                                 | 157,376                               | 5,425                                      | 3.4%                                           | -6                                      | -3                                     |
| Private                                                                 | Rensselaer Polytechnic Institute        | 29,452                                  | 28,290                                | 1,162                                      | 4.1%                                           | 1                                       | -2                                     |
| Private                                                                 | Rice University                         | 49,826                                  | 27,177                                | 22,650                                     | 83.3%                                          | 37                                      | 5                                      |
| Private                                                                 | Rockefeller University                  | 106,433                                 | 90,587                                | 15,846                                     | 17.5%                                          | 8                                       | -2                                     |
| Private                                                                 | Rush University                         | 22,596                                  | 32,762                                | -10,165                                    | -31.0%                                         | -24                                     | -6                                     |
| Public                                                                  | Rutgers University - New Brunswick      | 193,369                                 | 108,956                               | 84,413                                     | 77.5%                                          | 23                                      | 17                                     |
| Private                                                                 | Scripps Research Institute              | 108,183                                 | 133,973                               | -25,790                                    | -19.3%                                         | -19                                     | -6                                     |
| Private                                                                 | Stanford University                     | 322,008                                 | 251,890                               | 70,118                                     | 27.8%                                          | 1                                       | 0                                      |
| Public                                                                  | State Univ. of NY - Polytechnic Inst.   | 94,228                                  |                                       |                                            |                                                |                                         |                                        |
| Public                                                                  | Stony Brook University                  | 71,830                                  | 92,505                                | -20,675                                    | -22.4%                                         | -19                                     | -12                                    |
| Public                                                                  | Temple University                       | 76,017                                  | 33,850                                | 42,168                                     | 124.6%                                         | 54                                      | 43                                     |
| Public                                                                  | Texas A&M Univ. - College Station       | 265,162                                 | 213,146                               | 52,017                                     | 24.4%                                          | 1                                       | 3                                      |
| Private                                                                 | Thomas Jefferson University             | 43,498                                  | 36,335                                | 7,163                                      | 19.7%                                          | 8                                       | -1                                     |
| Private                                                                 | Tufts University                        | 66,175                                  | 51,067                                | 15,107                                     | 29.6%                                          | 16                                      | 6                                      |
| Private                                                                 | Tulane University                       | 51,055                                  | 56,087                                | -5,032                                     | -9.0%                                          | -15                                     | -4                                     |
| Public                                                                  | Uniformed Services Univ. of the HS      | 91,033                                  | 38,862                                | 52,171                                     | 134.2%                                         | 54                                      | 44                                     |
| Public                                                                  | University at Albany                    | 42,834                                  | 98,972                                | -56,138                                    | -56.7%                                         | -65                                     | -46                                    |
| Public                                                                  | University at Buffalo                   | 117,886                                 | 120,678                               | -2,791                                     | -2.3%                                          | -7                                      | -6                                     |
| Public                                                                  | University of Alabama - Birmingham      | 168,919                                 | 148,089                               | 20,830                                     | 14.1%                                          | -2                                      | -1                                     |
| Public                                                                  | University of Alabama - Huntsville      | 27,273                                  | 23,935                                | 3,339                                      | 13.9%                                          | 8                                       | 9                                      |
| Public                                                                  | University of Alaska - Fairbanks        | 45,785                                  | 44,311                                | 1,474                                      | 3.3%                                           | -2                                      | 0                                      |
| Public                                                                  | University of Arizona                   | 186,100                                 | 199,788                               | -13,688                                    | -6.9%                                          | -11                                     | -4                                     |
| Public                                                                  | University of Arkansas - Fayetteville   | 41,471                                  | 37,619                                | 3,852                                      | 10.2%                                          | 2                                       | 5                                      |
| Public                                                                  | Univ. of Arkansas for Med. Sciences     | 39,208                                  | 42,983                                | -3,775                                     | -8.8%                                          | -13                                     | -8                                     |
| Public                                                                  | University of California - Berkeley     | 221,142                                 | 216,588                               | 4,554                                      | 2.1%                                           | -11                                     | -5                                     |
| Public                                                                  | University of California - Davis        | 221,646                                 | 235,162                               | -13,516                                    | -5.7%                                          | -11                                     | -6                                     |
| Public                                                                  | University of California - Irvine       | 103,523                                 | 118,786                               | -15,263                                    | -12.8%                                         | -16                                     | -9                                     |
| Public                                                                  | University of California - Los Angeles  | 316,627                                 | 318,961                               | -2,334                                     | -0.7%                                          | -6                                      | -3                                     |
| Public                                                                  | University of California - Riverside    | 48,604                                  | 47,435                                | 1,169                                      | 2.5%                                           | -3                                      | -1                                     |
| Public                                                                  | University of California - San Diego    | 343,625                                 | 308,182                               | 35,443                                     | 11.5%                                          | 0                                       | 1                                      |
| Public                                                                  | Univ. of California - San Francisco     | 430,007                                 | 323,977                               | 106,031                                    | 32.7%                                          | -1                                      | -1                                     |
| Public                                                                  | Univ. of California - Santa Barbara     | 68,882                                  | 74,561                                | -5,680                                     | -7.6%                                          | -12                                     | -7                                     |
| Public                                                                  | University of California - Santa Cruz   | 36,609                                  | 49,506                                | -12,897                                    | -26.1%                                         | -25                                     | -19                                    |
| Public                                                                  | University of Central Florida           | 51,449                                  | 39,553                                | 11,896                                     | 30.1%                                          | 14                                      | 14                                     |
| Private                                                                 | University of Chicago                   | 128,141                                 | 130,764                               | -2,623                                     | -2.0%                                          | -8                                      | 1                                      |
| Public                                                                  | University of Cincinnati - Cincinnati   | 130,350                                 | 125,921                               | 4,429                                      | 3.5%                                           | -4                                      | -6                                     |
| Public                                                                  | University of Colorado - Boulder        | 144,769                                 | 95,571                                | 49,198                                     | 51.5%                                          | 20                                      | 15                                     |
| Public                                                                  | U. of Colorado - Denver/Anschutz Med.   | 144,269                                 | 97,548                                | 46,721                                     | 47.9%                                          | 17                                      | 12                                     |
| Public                                                                  | University of Connecticut - Health Ctr. | 23,263                                  | 42,373                                | -19,110                                    | -45.1%                                         | -42                                     | -33                                    |
| Public                                                                  | University of Connecticut - Storrs      | 55,201                                  | 40,308                                | 14,893                                     | 36.9%                                          | 19                                      | 19                                     |
| Private                                                                 | University of Dayton                    | 38,811                                  | 29,747                                | 9,064                                      | 30.5%                                          | 11                                      | -1                                     |
| Public                                                                  | University of Delaware                  | 53,836                                  | 45,816                                | 8,021                                      | 17.5%                                          | 7                                       | 7                                      |
| Public                                                                  | University of Florida                   | 233,850                                 | 213,806                               | 20,043                                     | 9.4%                                           | -5                                      | -1                                     |
| Public                                                                  | University of Georgia                   | 123,131                                 | 128,209                               | -5,079                                     | -4.0%                                          | -9                                      | -9                                     |

# The Top American Research Universities

| Federal Research in Constant 1983 Dollars |                                         |                                            |                                                |                                         |                                        | Non-Federal Research in Constant 1983 Dollars |                                             |                                            |                                                |                                         |                                        |
|-------------------------------------------|-----------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|-----------------------------------------------|---------------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|
| 2018<br>Federal<br>Research<br>x \$1000   | 2009<br>Federal<br>Research<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank | 2018<br>Non-Federal<br>Research<br>x \$1000   | 2009<br>Non-Federal<br>Research<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| 74,290                                    | 84,988                                  | -10,698                                    | -12.6%                                         | -6                                      | -5                                     | 31,491                                        | 25,323                                      | 6,168                                      | 24.4%                                          | -1                                      | 4                                      |
| 48,117                                    | 41,583                                  | 6,534                                      | 15.7%                                          | 9                                       | 4                                      | 31,482                                        | 27,246                                      | 4,236                                      | 15.5%                                          | -11                                     | -3                                     |
| 15,581                                    | 17,125                                  | -1,544                                     | -9.0%                                          | 0                                       | 1                                      | 15,188                                        | 12,410                                      | 2,778                                      | 22.4%                                          | 1                                       | 5                                      |
| 145,567                                   | 131,664                                 | 13,902                                     | 10.6%                                          | 1                                       | 0                                      | 75,885                                        | 95,414                                      | -19,529                                    | -20.5%                                         | -29                                     | -15                                    |
| 53,540                                    | 45,787                                  | 7,753                                      | 16.9%                                          | 4                                       | 2                                      | 45,663                                        | 25,494                                      | 20,169                                     | 79.1%                                          | 25                                      | 2                                      |
| 68,637                                    | 64,633                                  | 4,004                                      | 6.2%                                           | 2                                       | 2                                      | 94,164                                        | 92,743                                      | 1,421                                      | 1.5%                                           | -14                                     | -5                                     |
| 14,568                                    | 17,242                                  | -2,674                                     | -15.5%                                         | -5                                      | -2                                     | 14,884                                        | 11,048                                      | 3,836                                      | 34.7%                                          | 8                                       | -1                                     |
| 25,596                                    | 20,115                                  | 5,481                                      | 27.2%                                          | 19                                      | 1                                      | 24,230                                        | 7,062                                       | 17,168                                     | 243.1%                                         | 61                                      | 10                                     |
| 26,471                                    | 29,850                                  | -3,378                                     | -11.3%                                         | -1                                      | -3                                     | 79,961                                        | 60,737                                      | 19,224                                     | 31.7%                                          | -1                                      | -5                                     |
| 15,722                                    | 14,985                                  | 738                                        | 4.9%                                           | 14                                      | 1                                      | 6,874                                         | 17,777                                      | -10,903                                    | -61.3%                                         | -71                                     | -19                                    |
| 96,448                                    | 47,921                                  | 48,526                                     | 101.3%                                         | 35                                      | 24                                     | 96,921                                        | 61,035                                      | 35,887                                     | 58.8%                                          | 12                                      | 11                                     |
| 76,302                                    | 97,230                                  | -20,928                                    | -21.5%                                         | -15                                     | -7                                     | 31,881                                        | 36,743                                      | -4,862                                     | -13.2%                                         | -27                                     | -11                                    |
| 208,972                                   | 186,469                                 | 22,503                                     | 12.1%                                          | 0                                       | 0                                      | 113,036                                       | 65,422                                      | 47,615                                     | 72.8%                                          | 12                                      | -1                                     |
| 12,584                                    |                                         |                                            |                                                |                                         |                                        | 81,644                                        |                                             |                                            |                                                |                                         |                                        |
| 38,183                                    | 38,949                                  | -766                                       | -2.0%                                          | 1                                       | 0                                      | 33,646                                        | 53,555                                      | -19,909                                    | -37.2%                                         | -38                                     | -25                                    |
| 43,823                                    | 21,479                                  | 22,344                                     | 104.0%                                         | 48                                      | 37                                     | 32,194                                        | 12,371                                      | 19,823                                     | 160.2%                                         | 57                                      | 47                                     |
| 89,883                                    | 89,892                                  | -9                                         | 0.0%                                           | -3                                      | -5                                     | 175,279                                       | 123,253                                     | 52,026                                     | 42.2%                                          | 5                                       | 6                                      |
| 18,925                                    | 27,828                                  | -8,903                                     | -32.0%                                         | -20                                     | -5                                     | 24,573                                        | 8,506                                       | 16,067                                     | 188.9%                                         | 56                                      | 8                                      |
| 42,105                                    | 34,997                                  | 7,108                                      | 20.3%                                          | 16                                      | 3                                      | 24,070                                        | 16,070                                      | 7,999                                      | 49.8%                                          | 7                                       | -5                                     |
| 28,602                                    | 39,950                                  | -11,347                                    | -28.4%                                         | -16                                     | -2                                     | 22,453                                        | 16,137                                      | 6,316                                      | 39.1%                                          | 2                                       | -7                                     |
| 62,314                                    | 24,648                                  | 37,666                                     | 152.8%                                         | 61                                      | 45                                     | 28,719                                        | 14,213                                      | 14,506                                     | 102.1%                                         | 35                                      | 31                                     |
| 25,186                                    | 39,801                                  | -14,615                                    | -36.7%                                         | -28                                     | -21                                    | 17,647                                        | 59,170                                      | -41,523                                    | -70.2%                                         | -96                                     | -67                                    |
| 56,234                                    | 56,854                                  | -621                                       | -1.1%                                          | -5                                      | -4                                     | 61,652                                        | 63,823                                      | -2,171                                     | -3.4%                                          | -19                                     | -7                                     |
| 108,708                                   | 110,929                                 | -2,221                                     | -2.0%                                          | -6                                      | -3                                     | 60,211                                        | 37,160                                      | 23,051                                     | 62.0%                                          | 9                                       | 13                                     |
| 20,826                                    | 17,227                                  | 3,599                                      | 20.9%                                          | 21                                      | 19                                     | 6,448                                         | 6,708                                       | -260                                       | -3.9%                                          | -17                                     | -13                                    |
| 29,127                                    | 38,765                                  | -9,638                                     | -24.9%                                         | -11                                     | -10                                    | 16,658                                        | 5,546                                       | 11,112                                     | 200.4%                                         | 55                                      | 47                                     |
| 82,133                                    | 101,710                                 | -19,577                                    | -19.2%                                         | -16                                     | -10                                    | 103,967                                       | 98,078                                      | 5,889                                      | 6.0%                                           | -9                                      | -2                                     |
| 12,875                                    | 11,540                                  | 1,334                                      | 11.6%                                          | 16                                      | 13                                     | 28,596                                        | 26,079                                      | 2,518                                      | 9.7%                                           | -13                                     | -3                                     |
| 15,651                                    | 22,705                                  | -7,054                                     | -31.1%                                         | -21                                     | -17                                    | 23,557                                        | 20,278                                      | 3,279                                      | 16.2%                                          | -18                                     | -7                                     |
| 99,630                                    | 91,194                                  | 8,436                                      | 9.3%                                           | 2                                       | -2                                     | 121,512                                       | 125,394                                     | -3,882                                     | -3.1%                                          | -7                                      | -2                                     |
| 103,122                                   | 98,438                                  | 4,684                                      | 4.8%                                           | -2                                      | -2                                     | 118,523                                       | 136,724                                     | -18,200                                    | -13.3%                                         | -14                                     | -8                                     |
| 54,549                                    | 65,257                                  | -10,709                                    | -16.4%                                         | -15                                     | -12                                    | 48,975                                        | 53,529                                      | -4,554                                     | -8.5%                                          | -18                                     | -10                                    |
| 146,387                                   | 172,727                                 | -26,340                                    | -15.2%                                         | -7                                      | -3                                     | 170,240                                       | 146,234                                     | 24,006                                     | 16.4%                                          | -3                                      | -2                                     |
| 23,163                                    | 19,683                                  | 3,480                                      | 17.7%                                          | 16                                      | 15                                     | 25,441                                        | 27,752                                      | -2,311                                     | -8.3%                                          | -29                                     | -16                                    |
| 195,155                                   | 179,692                                 | 15,463                                     | 8.6%                                           | -1                                      | -1                                     | 148,470                                       | 128,489                                     | 19,980                                     | 15.6%                                          | -1                                      | 1                                      |
| 185,125                                   | 172,987                                 | 12,138                                     | 7.0%                                           | -2                                      | -1                                     | 244,882                                       | 150,990                                     | 93,893                                     | 62.2%                                          | 0                                       | 0                                      |
| 34,529                                    | 40,846                                  | -6,317                                     | -15.5%                                         | -8                                      | -7                                     | 34,352                                        | 33,715                                      | 637                                        | 1.9%                                           | -13                                     | -5                                     |
| 19,872                                    | 25,526                                  | -5,653                                     | -22.1%                                         | -13                                     | -9                                     | 16,737                                        | 23,980                                      | -7,243                                     | -30.2%                                         | -42                                     | -27                                    |
| 25,255                                    | 20,412                                  | 4,843                                      | 23.7%                                          | 15                                      | 15                                     | 26,194                                        | 19,140                                      | 7,053                                      | 36.9%                                          | 7                                       | 9                                      |
| 92,250                                    | 104,169                                 | -11,919                                    | -11.4%                                         | -13                                     | -3                                     | 35,890                                        | 26,594                                      | 9,296                                      | 35.0%                                          | 9                                       | -4                                     |
| 73,120                                    | 80,954                                  | -7,834                                     | -9.7%                                          | -5                                      | -4                                     | 57,230                                        | 44,967                                      | 12,263                                     | 27.3%                                          | -1                                      | 6                                      |
| 109,672                                   | 80,357                                  | 29,314                                     | 36.5%                                          | 17                                      | 10                                     | 35,097                                        | 15,214                                      | 19,883                                     | 130.7%                                         | 52                                      | 44                                     |
| 93,200                                    | 78,237                                  | 14,963                                     | 19.1%                                          | 10                                      | 4                                      | 51,069                                        | 19,312                                      | 31,758                                     | 164.4%                                         | 49                                      | 40                                     |
| 12,843                                    | 22,493                                  | -9,650                                     | -42.9%                                         | -31                                     | -25                                    | 10,420                                        | 19,880                                      | -9,460                                     | -47.6%                                         | -64                                     | -45                                    |
| 30,475                                    | 21,396                                  | 9,078                                      | 42.4%                                          | 27                                      | 21                                     | 24,727                                        | 18,912                                      | 5,815                                      | 30.7%                                          | 3                                       | 7                                      |
| 34,349                                    | 23,612                                  | 10,737                                     | 45.5%                                          | 29                                      | 7                                      | 4,461                                         | 6,134                                       | -1,673                                     | -27.3%                                         | -33                                     | -10                                    |
| 34,486                                    | 30,974                                  | 3,512                                      | 11.3%                                          | 11                                      | 8                                      | 19,351                                        | 14,842                                      | 4,509                                      | 30.4%                                          | 2                                       | 7                                      |
| 95,858                                    | 84,546                                  | 11,313                                     | 13.4%                                          | 6                                       | 0                                      | 137,991                                       | 129,261                                     | 8,731                                      | 6.8%                                           | -5                                      | -1                                     |
| 46,765                                    | 37,631                                  | 9,134                                      | 24.3%                                          | 18                                      | 11                                     | 76,365                                        | 90,578                                      | -14,213                                    | -15.7%                                         | -26                                     | -12                                    |

| Change: Research                                                        |                                       | Total Research in Constant 1983 Dollars |                                       |                                            |                                                |                                         |                                        |
|-------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2018<br>Total<br>Research<br>x \$1000   | 2009<br>Total<br>Research<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| Public                                                                  | University of Hawaii - Manoa          | 87,958                                  | 99,492                                | -11,533                                    | -11.6%                                         | -15                                     | -8                                     |
| Public                                                                  | University of Houston - Univ. Park    | 45,702                                  | 30,923                                | 14,779                                     | 47.8%                                          | 22                                      | 20                                     |
| Public                                                                  | University of Idaho                   | 32,180                                  | 29,841                                | 2,340                                      | 7.8%                                           | 4                                       | 6                                      |
| Public                                                                  | University of Illinois - Chicago      | 107,456                                 | 122,661                               | -15,204                                    | -12.4%                                         | -14                                     | -9                                     |
| Public                                                                  | Univ. of Illinois - Urbana-Champaign  | 183,866                                 | 183,468                               | 398                                        | 0.2%                                           | -9                                      | -2                                     |
| Public                                                                  | University of Iowa                    | 142,318                                 | 107,444                               | 34,873                                     | 32.5%                                          | 9                                       | 5                                      |
| Public                                                                  | University of Kansas - Lawrence       | 50,272                                  | 47,714                                | 2,558                                      | 5.4%                                           | -2                                      | -1                                     |
| Public                                                                  | University of Kansas Medical Center   | 26,351                                  | 31,110                                | -4,759                                     | -15.3%                                         | -14                                     | -10                                    |
| Public                                                                  | University of Kentucky                | 112,257                                 | 123,221                               | -10,964                                    | -8.9%                                          | -12                                     | -9                                     |
| Public                                                                  | University of Louisville              | 51,533                                  | 54,511                                | -2,977                                     | -5.5%                                          | -8                                      | -6                                     |
| Public                                                                  | University of Maryland - Baltimore    | 124,169                                 | 138,863                               | -14,694                                    | -10.6%                                         | -14                                     | -12                                    |
| Public                                                                  | Univ. of Maryland - Baltimore County  | 21,334                                  | 24,450                                | -3,115                                     | -12.7%                                         | -8                                      | -5                                     |
| Public                                                                  | University of Maryland - College Park | 162,613                                 | 144,584                               | 18,029                                     | 12.5%                                          | -3                                      | -2                                     |
| Public                                                                  | Univ. of Massachusetts - Amherst      | 59,199                                  | 55,956                                | 3,243                                      | 5.8%                                           | 2                                       | 2                                      |
| Public                                                                  | Univ. of Mass. Med. Sch. - Worcester  | 85,393                                  | 65,373                                | 20,020                                     | 30.6%                                          | 17                                      | 15                                     |
| Private                                                                 | University of Miami                   | 111,456                                 | 88,490                                | 22,966                                     | 26.0%                                          | 14                                      | 2                                      |
| Public                                                                  | University of Michigan - Ann Arbor    | 437,677                                 | 320,759                               | 116,918                                    | 36.5%                                          | 2                                       | 2                                      |
| Public                                                                  | University of Minnesota - Twin Cities | 268,880                                 | 249,854                               | 19,026                                     | 7.6%                                           | -4                                      | -2                                     |
| Public                                                                  | University of Missouri - Columbia     | 74,129                                  | 89,538                                | -15,409                                    | -17.2%                                         | -14                                     | -8                                     |
| Public                                                                  | University of Montana - Missoula      | 25,662                                  | 21,240                                | 4,422                                      | 20.8%                                          | 14                                      | 14                                     |
| Public                                                                  | University of Nebraska - Lincoln      | 82,606                                  | 84,093                                | -1,487                                     | -1.8%                                          | -3                                      | 2                                      |
| Public                                                                  | University of Nebraska Medical Ctr.   | 52,322                                  | 41,317                                | 11,005                                     | 26.6%                                          | 14                                      | 14                                     |
| Public                                                                  | University of Nevada - Reno           | 30,252                                  | 37,359                                | -7,106                                     | -19.0%                                         | -16                                     | -10                                    |
| Public                                                                  | Univ. of New Hampshire - Durham       | 40,759                                  | 41,679                                | -920                                       | -2.2%                                          | -6                                      | -2                                     |
| Public                                                                  | Univ. of New Mexico - Albuquerque     | 72,194                                  | 72,333                                | -139                                       | -0.2%                                          | -5                                      | -2                                     |
| Public                                                                  | Univ. of North Carolina - Chapel Hill | 323,874                                 | 192,459                               | 131,416                                    | 68.3%                                          | 15                                      | 11                                     |
| Public                                                                  | University of North Dakota            | 28,056                                  | 23,800                                | 4,257                                      | 17.9%                                          | 10                                      | 11                                     |
| Private                                                                 | University of Notre Dame              | 56,157                                  | 35,565                                | 20,592                                     | 57.9%                                          | 31                                      | 4                                      |
| Public                                                                  | University of Oklahoma - HSC          | 37,336                                  | 37,961                                | -625                                       | -1.6%                                          | -7                                      | -1                                     |
| Public                                                                  | University of Oklahoma - Norman       | 39,130                                  | 32,337                                | 6,793                                      | 21.0%                                          | 7                                       | 8                                      |
| Public                                                                  | University of Oregon                  | 22,125                                  | 24,660                                | -2,535                                     | -10.3%                                         | -8                                      | -5                                     |
| Private                                                                 | University of Pennsylvania            | 380,669                                 | 259,217                               | 121,452                                    | 46.9%                                          | 4                                       | 1                                      |
| Public                                                                  | University of Pittsburgh - Pittsburgh | 283,803                                 | 217,999                               | 65,804                                     | 30.2%                                          | 2                                       | 3                                      |
| Public                                                                  | University of Rhode Island            | 29,045                                  | 28,349                                | 695                                        | 2.5%                                           | -1                                      | 2                                      |
| Private                                                                 | University of Rochester               | 107,372                                 | 137,330                               | -29,958                                    | -21.8%                                         | -24                                     | -8                                     |
| Public                                                                  | Univ. of South Carolina - Columbia    | 54,957                                  | 63,090                                | -8,134                                     | -12.9%                                         | -13                                     | -6                                     |
| Public                                                                  | University of South Florida - Tampa   | 153,226                                 | 101,901                               | 51,325                                     | 50.4%                                          | 15                                      | 11                                     |
| Private                                                                 | University of Southern California     | 221,359                                 | 190,153                               | 31,206                                     | 16.4%                                          | -1                                      | -3                                     |
| Public                                                                  | University of Tennessee - Knoxville   | 82,239                                  | 62,109                                | 20,130                                     | 32.4%                                          | 16                                      | 15                                     |
| Public                                                                  | University of Texas - Austin          | 182,632                                 | 180,546                               | 2,086                                      | 1.2%                                           | -9                                      | -2                                     |
| Public                                                                  | University of Texas - El Paso         | 25,595                                  | 17,900                                | 7,696                                      | 43.0%                                          | 22                                      | 19                                     |
| Public                                                                  | University of Texas HSC - Houston     | 75,073                                  | 72,194                                | 2,879                                      | 4.0%                                           | -1                                      | 1                                      |
| Public                                                                  | Univ. of Texas HSC - San Antonio      | 58,749                                  | 73,684                                | -14,935                                    | -20.3%                                         | -19                                     | -10                                    |
| Public                                                                  | U. of Texas MD Anderson Cancer Ctr.   | 270,938                                 | 204,412                               | 66,526                                     | 32.5%                                          | 6                                       | 6                                      |
| Public                                                                  | U. of Texas Med. Branch - Galveston   | 56,476                                  | 65,890                                | -9,414                                     | -14.3%                                         | -9                                      | -4                                     |
| Public                                                                  | Univ. of Texas SW Med. Ctr. - Dallas  | 140,894                                 | 142,868                               | -1,973                                     | -1.4%                                          | -11                                     | -10                                    |
| Public                                                                  | University of Utah                    | 97,313                                  | 92,924                                | 4,389                                      | 4.7%                                           | 0                                       | 4                                      |
| Public                                                                  | University of Vermont                 | 35,829                                  | 42,244                                | -6,415                                     | -15.2%                                         | -17                                     | -11                                    |
| Public                                                                  | University of Virginia                | 131,740                                 | 94,300                                | 37,440                                     | 39.7%                                          | 18                                      | 13                                     |

# The Top American Research Universities

| Federal Research in Constant 1983 Dollars |                                         |                                            |                                                |                                         |                                        | Non-Federal Research in Constant 1983 Dollars |                                             |                                            |                                                |                                         |                                        |
|-------------------------------------------|-----------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|-----------------------------------------------|---------------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|
| 2018<br>Federal<br>Research<br>x \$1000   | 2009<br>Federal<br>Research<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank | 2018<br>Non-Federal<br>Research<br>x \$1000   | 2009<br>Non-Federal<br>Research<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| 55,452                                    | 71,190                                  | -15,738                                    | -22.1%                                         | -14                                     | -11                                    | 32,507                                        | 28,302                                      | 4,205                                      | 14.9%                                          | -9                                      | -2                                     |
| 17,471                                    | 15,797                                  | 1,674                                      | 10.6%                                          | 21                                      | 19                                     | 28,232                                        | 15,126                                      | 13,105                                     | 86.6%                                          | 29                                      | 27                                     |
| 14,913                                    | 16,580                                  | -1,667                                     | -10.1%                                         | 1                                       | 2                                      | 17,267                                        | 13,261                                      | 4,007                                      | 30.2%                                          | 4                                       | 9                                      |
| 57,582                                    | 71,926                                  | -14,345                                    | -19.9%                                         | -14                                     | -11                                    | 49,875                                        | 50,734                                      | -859                                       | -1.7%                                          | -13                                     | -5                                     |
| 105,155                                   | 97,690                                  | 7,465                                      | 7.6%                                           | 0                                       | 0                                      | 78,711                                        | 85,778                                      | -7,067                                     | -8.2%                                          | -21                                     | -7                                     |
| 72,211                                    | 84,144                                  | -11,934                                    | -14.2%                                         | -7                                      | -6                                     | 70,107                                        | 23,300                                      | 46,807                                     | 200.9%                                         | 53                                      | 44                                     |
| 26,180                                    | 24,661                                  | 1,519                                      | 6.2%                                           | 8                                       | 10                                     | 24,092                                        | 23,053                                      | 1,039                                      | 4.5%                                           | -21                                     | -10                                    |
| 12,296                                    | 20,138                                  | -7,842                                     | -38.9%                                         | -28                                     | -22                                    | 14,055                                        | 10,972                                      | 3,083                                      | 28.1%                                          | 5                                       | 7                                      |
| 51,363                                    | 56,661                                  | -5,298                                     | -9.4%                                          | -9                                      | -7                                     | 60,894                                        | 66,560                                      | -5,666                                     | -8.5%                                          | -23                                     | -10                                    |
| 21,272                                    | 26,612                                  | -5,340                                     | -20.1%                                         | -11                                     | -8                                     | 30,261                                        | 27,898                                      | 2,363                                      | 8.5%                                           | -17                                     | -7                                     |
| 65,374                                    | 61,864                                  | 3,510                                      | 5.7%                                           | 2                                       | 1                                      | 58,796                                        | 76,999                                      | -18,204                                    | -23.6%                                         | -30                                     | -16                                    |
| 15,868                                    | 18,505                                  | -2,638                                     | -14.3%                                         | -4                                      | -2                                     | 5,467                                         | 5,944                                       | -477                                       | -8.0%                                          | -20                                     | -14                                    |
| 110,223                                   | 86,529                                  | 23,695                                     | 27.4%                                          | 11                                      | 6                                      | 52,390                                        | 58,055                                      | -5,665                                     | -9.8%                                          | -20                                     | -11                                    |
| 31,118                                    | 29,183                                  | 1,934                                      | 6.6%                                           | 10                                      | 8                                      | 28,081                                        | 26,772                                      | 1,309                                      | 4.9%                                           | -19                                     | -8                                     |
| 61,091                                    | 53,111                                  | 7,979                                      | 15.0%                                          | 5                                       | 2                                      | 24,302                                        | 12,261                                      | 12,040                                     | 98.2%                                          | 30                                      | 29                                     |
| 59,052                                    | 60,751                                  | -1,699                                     | -2.8%                                          | -2                                      | 1                                      | 52,404                                        | 27,739                                      | 24,666                                     | 88.9%                                          | 22                                      | 0                                      |
| 250,925                                   | 216,953                                 | 33,972                                     | 15.7%                                          | 0                                       | 0                                      | 186,751                                       | 103,806                                     | 82,946                                     | 79.9%                                          | 10                                      | 9                                      |
| 136,933                                   | 133,274                                 | 3,659                                      | 2.7%                                           | -2                                      | -2                                     | 131,947                                       | 116,580                                     | 15,367                                     | 13.2%                                          | -2                                      | 2                                      |
| 32,586                                    | 39,576                                  | -6,990                                     | -17.7%                                         | -8                                      | -7                                     | 41,543                                        | 49,962                                      | -8,419                                     | -16.9%                                         | -18                                     | -7                                     |
| 13,566                                    | 12,593                                  | 973                                        | 7.7%                                           | 17                                      | 15                                     | 12,095                                        | 8,647                                       | 3,449                                      | 39.9%                                          | 8                                       | 12                                     |
| 30,497                                    | 29,970                                  | 527                                        | 1.8%                                           | 7                                       | 6                                      | 52,109                                        | 54,123                                      | -2,014                                     | -3.7%                                          | -17                                     | -9                                     |
| 25,877                                    | 18,776                                  | 7,101                                      | 37.8%                                          | 25                                      | 23                                     | 26,445                                        | 22,541                                      | 3,904                                      | 17.3%                                          | -4                                      | 1                                      |
| 16,304                                    | 24,216                                  | -7,912                                     | -32.7%                                         | -20                                     | -15                                    | 13,949                                        | 13,142                                      | 806                                        | 6.1%                                           | -11                                     | -4                                     |
| 26,151                                    | 30,659                                  | -4,508                                     | -14.7%                                         | -6                                      | -2                                     | 14,608                                        | 11,020                                      | 3,588                                      | 32.6%                                          | 8                                       | 9                                      |
| 48,689                                    | 49,331                                  | -642                                       | -1.3%                                          | -5                                      | -5                                     | 23,505                                        | 23,002                                      | 503                                        | 2.2%                                           | -24                                     | -12                                    |
| 200,719                                   | 136,554                                 | 64,165                                     | 47.0%                                          | 12                                      | 5                                      | 123,155                                       | 55,905                                      | 67,251                                     | 120.3%                                         | 29                                      | 22                                     |
| 12,462                                    | 17,063                                  | -4,601                                     | -27.0%                                         | -10                                     | -7                                     | 15,595                                        | 6,737                                       | 8,858                                      | 131.5%                                         | 39                                      | 33                                     |
| 27,471                                    | 24,453                                  | 3,017                                      | 12.3%                                          | 14                                      | 0                                      | 28,686                                        | 11,111                                      | 17,575                                     | 158.2%                                         | 51                                      | 8                                      |
| 17,135                                    | 18,770                                  | -1,635                                     | -8.7%                                          | 2                                       | 3                                      | 20,201                                        | 19,191                                      | 1,010                                      | 5.3%                                           | -15                                     | -6                                     |
| 21,463                                    | 14,748                                  | 6,716                                      | 45.5%                                          | 40                                      | 35                                     | 17,667                                        | 17,589                                      | 78                                         | 0.4%                                           | -13                                     | -3                                     |
| 17,419                                    | 20,200                                  | -2,781                                     | -13.8%                                         | -4                                      | -2                                     | 4,706                                         | 4,461                                       | 245                                        | 5.5%                                           | -7                                      | -3                                     |
| 199,354                                   | 176,529                                 | 22,824                                     | 12.9%                                          | 1                                       | 1                                      | 181,315                                       | 82,688                                      | 98,627                                     | 119.3%                                         | 20                                      | 3                                      |
| 186,951                                   | 166,959                                 | 19,992                                     | 12.0%                                          | 2                                       | 2                                      | 96,852                                        | 51,041                                      | 45,812                                     | 89.8%                                          | 23                                      | 19                                     |
| 18,191                                    | 18,438                                  | -247                                       | -1.3%                                          | 10                                      | 11                                     | 10,854                                        | 9,911                                       | 942                                        | 9.5%                                           | -3                                      | 1                                      |
| 81,474                                    | 101,114                                 | -19,640                                    | -19.4%                                         | -16                                     | -6                                     | 25,898                                        | 36,216                                      | -10,318                                    | -28.5%                                         | -41                                     | -15                                    |
| 27,326                                    | 36,079                                  | -8,753                                     | -24.3%                                         | -11                                     | -6                                     | 27,630                                        | 27,012                                      | 619                                        | 2.3%                                           | -21                                     | -10                                    |
| 71,659                                    | 62,187                                  | 9,472                                      | 15.2%                                          | 7                                       | 6                                      | 81,567                                        | 39,714                                      | 41,853                                     | 105.4%                                         | 24                                      | 22                                     |
| 133,181                                   | 127,629                                 | 5,552                                      | 4.3%                                           | -3                                      | -2                                     | 88,178                                        | 62,524                                      | 25,654                                     | 41.0%                                          | 4                                       | -3                                     |
| 43,492                                    | 25,632                                  | 17,859                                     | 69.7%                                          | 34                                      | 26                                     | 38,747                                        | 36,477                                      | 2,270                                      | 6.2%                                           | -7                                      | 0                                      |
| 115,141                                   | 118,689                                 | -3,548                                     | -3.0%                                          | -3                                      | -1                                     | 67,491                                        | 61,857                                      | 5,634                                      | 9.1%                                           | -10                                     | -3                                     |
| 13,351                                    | 9,846                                   | 3,505                                      | 35.6%                                          | 27                                      | 23                                     | 12,245                                        | 8,053                                       | 4,191                                      | 52.0%                                          | 15                                      | 17                                     |
| 37,973                                    | 47,315                                  | -9,342                                     | -19.7%                                         | -20                                     | -13                                    | 37,100                                        | 24,879                                      | 12,221                                     | 49.1%                                          | 19                                      | 19                                     |
| 26,072                                    | 44,563                                  | -18,491                                    | -41.5%                                         | -36                                     | -24                                    | 32,677                                        | 29,121                                      | 3,556                                      | 12.2%                                          | -9                                      | -2                                     |
| 50,815                                    | 71,329                                  | -20,514                                    | -28.8%                                         | -20                                     | -16                                    | 220,123                                       | 133,083                                     | 87,040                                     | 65.4%                                          | 4                                       | 4                                      |
| 31,870                                    | 44,655                                  | -12,785                                    | -28.6%                                         | -23                                     | -16                                    | 24,606                                        | 21,234                                      | 3,371                                      | 15.9%                                          | -12                                     | -4                                     |
| 61,046                                    | 73,742                                  | -12,696                                    | -17.2%                                         | -12                                     | -11                                    | 79,848                                        | 69,126                                      | 10,722                                     | 15.5%                                          | -12                                     | -2                                     |
| 66,635                                    | 62,856                                  | 3,780                                      | 6.0%                                           | 2                                       | 2                                      | 30,678                                        | 30,068                                      | 610                                        | 2.0%                                           | -20                                     | -10                                    |
| 23,915                                    | 32,836                                  | -8,922                                     | -27.2%                                         | -17                                     | -12                                    | 11,914                                        | 9,408                                       | 2,506                                      | 26.6%                                          | 3                                       | 7                                      |
| 65,655                                    | 80,311                                  | -14,656                                    | -18.2%                                         | -9                                      | -8                                     | 66,085                                        | 13,989                                      | 52,095                                     | 372.4%                                         | 90                                      | 72                                     |

| Change: Research                                                        |                                       | Total Research in Constant 1983 Dollars |                                       |                                            |                                                |                                         |                                        |
|-------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2018<br>Total<br>Research<br>x \$1000   | 2009<br>Total<br>Research<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| Public                                                                  | University of Washington - Seattle    | 387,673                                 | 280,039                               | 107,633                                    | 38.4%                                          | 4                                       | 3                                      |
| Public                                                                  | University of Wisconsin - Madison     | 337,215                                 | 322,730                               | 14,485                                     | 4.5%                                           | -5                                      | -3                                     |
| Public                                                                  | University of Wyoming                 | 37,200                                  | 27,348                                | 9,852                                      | 36.0%                                          | 16                                      | 16                                     |
| Public                                                                  | Utah State University                 | 56,366                                  | 53,483                                | 2,883                                      | 5.4%                                           | 4                                       | 4                                      |
| Private                                                                 | Vanderbilt University                 | 207,860                                 | 154,680                               | 53,181                                     | 34.4%                                          | 6                                       | 2                                      |
| Public                                                                  | Virginia Commonwealth University      | 64,323                                  | 54,408                                | 9,916                                      | 18.2%                                          | 10                                      | 6                                      |
| Public                                                                  | Virginia Polytechnic Inst. and St. U. | 156,010                                 | 136,621                               | 19,389                                     | 14.2%                                          | 0                                       | 0                                      |
| Private                                                                 | Wake Forest University                | 55,490                                  | 73,169                                | -17,679                                    | -24.2%                                         | -24                                     | -11                                    |
| Public                                                                  | Washington State Univ. - Pullman      | 94,766                                  | 101,311                               | -6,545                                     | -6.5%                                          | -13                                     | -6                                     |
| Private                                                                 | Washington University in St. Louis    | 225,776                                 | 206,412                               | 19,364                                     | 9.4%                                           | -4                                      | -4                                     |
| Public                                                                  | Wayne State University                | 67,183                                  | 91,211                                | -24,028                                    | -26.3%                                         | -22                                     | -14                                    |
| Private                                                                 | Weill Cornell Medical College         | 113,334                                 | 71,455                                | 41,879                                     | 58.6%                                          | 28                                      | 7                                      |
| Public                                                                  | West Virginia University              | 53,515                                  | 51,156                                | 2,360                                      | 4.6%                                           | -1                                      | 0                                      |
| Private                                                                 | Woods Hole Oceanographic Inst.        | 59,216                                  | 55,164                                | 4,053                                      | 7.3%                                           | 5                                       | 1                                      |
| Private                                                                 | Yale University                       | 283,917                                 | 178,346                               | 105,570                                    | 59.2%                                          | 16                                      | 3                                      |
| Private                                                                 | Yeshiva University                    | 89,377                                  | 72,216                                | 17,161                                     | 23.8%                                          | 9                                       | -1                                     |

| Federal Research in Constant 1983 Dollars |                                         |                                            |                                                |                                         |                                        | Non-Federal Research in Constant 1983 Dollars |                                             |                                            |                                                |                                         |                                        |
|-------------------------------------------|-----------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|-----------------------------------------------|---------------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|
| 2018<br>Federal<br>Research<br>x \$1000   | 2009<br>Federal<br>Research<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank | 2018<br>Non-Federal<br>Research<br>x \$1000   | 2009<br>Non-Federal<br>Research<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| 278,512                                   | 224,749                                 | 53,763                                     | 23.9%                                          | 0                                       | 0                                      | 109,161                                       | 55,290                                      | 53,870                                     | 97.4%                                          | 22                                      | 19                                     |
| 168,715                                   | 173,645                                 | -4,930                                     | -2.8%                                          | -6                                      | -4                                     | 168,500                                       | 149,085                                     | 19,415                                     | 13.0%                                          | -5                                      | -4                                     |
| 17,140                                    | 10,384                                  | 6,756                                      | 65.1%                                          | 42                                      | 34                                     | 20,060                                        | 16,963                                      | 3,097                                      | 18.3%                                          | -5                                      | 3                                      |
| 41,889                                    | 32,532                                  | 9,357                                      | 28.8%                                          | 19                                      | 15                                     | 14,477                                        | 20,951                                      | -6,474                                     | -30.9%                                         | -43                                     | -28                                    |
| 135,058                                   | 121,254                                 | 13,804                                     | 11.4%                                          | 1                                       | 1                                      | 72,802                                        | 33,425                                      | 39,377                                     | 117.8%                                         | 26                                      | 2                                      |
| 38,852                                    | 34,905                                  | 3,947                                      | 11.3%                                          | 12                                      | 10                                     | 25,472                                        | 19,503                                      | 5,969                                      | 30.6%                                          | 2                                       | 5                                      |
| 55,339                                    | 49,622                                  | 5,717                                      | 11.5%                                          | -1                                      | -2                                     | 100,671                                       | 86,999                                      | 13,672                                     | 15.7%                                          | -5                                      | 2                                      |
| 45,077                                    | 53,545                                  | -8,468                                     | -15.8%                                         | -14                                     | -4                                     | 10,413                                        | 19,624                                      | -9,211                                     | -46.9%                                         | -62                                     | -18                                    |
| 40,672                                    | 35,746                                  | 4,926                                      | 13.8%                                          | 11                                      | 10                                     | 54,094                                        | 65,565                                      | -11,471                                    | -17.5%                                         | -28                                     | -15                                    |
| 142,981                                   | 144,174                                 | -1,193                                     | -0.8%                                          | -5                                      | -2                                     | 82,794                                        | 62,238                                      | 20,556                                     | 33.0%                                          | 2                                       | -4                                     |
| 32,605                                    | 42,421                                  | -9,816                                     | -23.1%                                         | -15                                     | -11                                    | 34,578                                        | 48,790                                      | -14,212                                    | -29.1%                                         | -26                                     | -13                                    |
| 47,544                                    | 46,375                                  | 1,168                                      | 2.5%                                           | -3                                      | 0                                      | 65,790                                        | 25,080                                      | 40,710                                     | 162.3%                                         | 44                                      | 6                                      |
| 21,435                                    | 24,942                                  | -3,507                                     | -14.1%                                         | -5                                      | -2                                     | 32,080                                        | 26,214                                      | 5,866                                      | 22.4%                                          | -2                                      | 3                                      |
| 45,305                                    | 43,037                                  | 2,268                                      | 5.3%                                           | 4                                       | 3                                      | 13,912                                        | 12,127                                      | 1,785                                      | 14.7%                                          | -5                                      | -6                                     |
| 162,312                                   | 137,086                                 | 25,226                                     | 18.4%                                          | 1                                       | 2                                      | 121,605                                       | 41,261                                      | 80,344                                     | 194.7%                                         | 43                                      | 8                                      |
| 57,687                                    | 52,655                                  | 5,032                                      | 9.6%                                           | 2                                       | 1                                      | 31,690                                        | 19,561                                      | 12,129                                     | 62.0%                                          | 18                                      | 1                                      |

# The Top American Research Universities

| Change: Private Support & Doctorates                                    |                                        | Endowment Assets in Constant 1998 Dollars |                                         |                                            |                                                |                                         |                                        |
|-------------------------------------------------------------------------|----------------------------------------|-------------------------------------------|-----------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                        | 2019<br>Endowment<br>Assets<br>x \$1000   | 2010<br>Endowment<br>Assets<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| Public                                                                  | Arizona State University               | 394,437                                   | 269,737                                 | 124,700                                    | 46.2%                                          | -9                                      | -3                                     |
| Public                                                                  | Auburn University                      | 420,053                                   | 205,925                                 | 214,129                                    | 104.0%                                         | 28                                      | 16                                     |
| Public                                                                  | Augusta University                     | 131,073                                   | 59,879                                  | 71,193                                     | 118.9%                                         | 76                                      | 21                                     |
| Private                                                                 | Baylor College of Medicine             | 696,444                                   | 483,622                                 | 212,822                                    | 44.0%                                          | -8                                      | 0                                      |
| Private                                                                 | Boston University                      | 1,183,258                                 | 589,972                                 | 593,286                                    | 100.6%                                         | 15                                      | 11                                     |
| Private                                                                 | Brandeis University                    | 572,792                                   | 369,347                                 | 203,445                                    | 55.1%                                          | -6                                      | 1                                      |
| Private                                                                 | Brown University                       | 1,972,746                                 | 1,333,846                               | 638,900                                    | 47.9%                                          | -4                                      | -1                                     |
| Private                                                                 | California Institute of Technology     | 1,576,235                                 | 924,523                                 | 651,712                                    | 70.5%                                          | 4                                       | 4                                      |
| Private                                                                 | Carnegie Mellon University             | 1,306,089                                 | 498,707                                 | 807,382                                    | 161.9%                                         | 32                                      | 25                                     |
| Private                                                                 | Case Western Reserve University        | 1,008,803                                 | 927,010                                 | 81,793                                     | 8.8%                                           | -19                                     | -13                                    |
| Public                                                                  | Clemson University                     | 406,062                                   | 218,945                                 | 187,118                                    | 85.5%                                          | 12                                      | 8                                      |
| Public                                                                  | Cleveland State University             | 45,965                                    | 24,690                                  | 21,276                                     | 86.2%                                          | -5                                      | -4                                     |
| Private                                                                 | Cold Spring Harbor Laboratory          |                                           |                                         |                                            |                                                |                                         |                                        |
| Public                                                                  | Colorado State Univ. - Fort Collins    | 194,832                                   | 97,968                                  | 96,865                                     | 98.9%                                          | 39                                      | 10                                     |
| Private                                                                 | Columbia University                    | 5,949,825                                 | 3,896,907                               | 2,052,917                                  | 52.7%                                          | -4                                      | -2                                     |
| Private                                                                 | Cornell University                     | 3,083,174                                 | 2,032,626                               | 1,050,548                                  | 51.7%                                          | 0                                       | 0                                      |
| Private                                                                 | Dartmouth College                      | 3,007,527                                 | 1,868,102                               | 1,139,425                                  | 61.0%                                          | 0                                       | 0                                      |
| Private                                                                 | Drexel University                      | 426,803                                   | 269,961                                 | 156,843                                    | 58.1%                                          | 5                                       | 2                                      |
| Private                                                                 | Duke University                        | 4,666,501                                 | 2,936,665                               | 1,729,836                                  | 58.9%                                          | 1                                       | 1                                      |
| Private                                                                 | Emory University                       | 3,991,731                                 | 2,862,395                               | 1,129,336                                  | 39.5%                                          | -1                                      | -1                                     |
| Public                                                                  | Florida International University       | 114,536                                   | 54,594                                  | 59,943                                     | 109.8%                                         | 67                                      | 14                                     |
| Public                                                                  | Florida State University               | 372,982                                   | 270,912                                 | 102,070                                    | 37.7%                                          | -22                                     | -8                                     |
| Public                                                                  | George Mason University                | 50,228                                    | 27,691                                  | 22,538                                     | 81.4%                                          | 7                                       | -2                                     |
| Private                                                                 | George Washington University           | 984,669                                   | 668,702                                 | 315,967                                    | 47.3%                                          | -5                                      | -2                                     |
| Private                                                                 | Georgetown University                  | 968,656                                   | 584,048                                 | 384,607                                    | 65.9%                                          | 5                                       | 5                                      |
| Public                                                                  | Georgia Institute of Technology        | 1,143,759                                 | 817,160                                 | 326,599                                    | 40.0%                                          | -4                                      | -2                                     |
| Public                                                                  | Georgia State University               | 91,478                                    | 50,097                                  | 41,381                                     | 82.6%                                          | 11                                      | -2                                     |
| Private                                                                 | Harvard University                     | 20,964,373                                | 17,285,217                              | 3,679,155                                  | 21.3%                                          | 0                                       | 0                                      |
| Private                                                                 | Icahn School of Med. at Mount Sinai    | 409,550                                   | 293,059                                 | 116,491                                    | 39.8%                                          | -15                                     | -8                                     |
| Public                                                                  | Indiana University - Bloomington       | 631,717                                   | 481,786                                 | 149,931                                    | 31.1%                                          | -14                                     | -12                                    |
| Public                                                                  | Iowa State University                  | 581,712                                   | 299,046                                 | 282,666                                    | 94.5%                                          | 24                                      | 3                                      |
| Private                                                                 | Johns Hopkins University               | 2,293,891                                 | 1,307,323                               | 986,567                                    | 75.5%                                          | -1                                      | 1                                      |
| Public                                                                  | Kansas State University                | 258,756                                   | 171,812                                 | 86,944                                     | 50.6%                                          | -13                                     | -11                                    |
| Public                                                                  | Louisiana State Univ. - Baton Rouge    | 273,339                                   | 181,858                                 | 91,482                                     | 50.3%                                          | -17                                     | -9                                     |
| Private                                                                 | Massachusetts Inst. of Technology      | 9,048,211                                 | 5,211,256                               | 3,836,955                                  | 73.6%                                          | 0                                       | 0                                      |
| Private                                                                 | Medical College of Wisconsin           | 509,608                                   | 249,117                                 | 260,491                                    | 104.6%                                         | 29                                      | 21                                     |
| Public                                                                  | Medical University of South Carolina   | 203,250                                   | 96,330                                  | 106,921                                    | 111.0%                                         | 51                                      | 15                                     |
| Public                                                                  | Michigan State University              | 1,793,221                                 | 887,077                                 | 906,143                                    | 102.1%                                         | 8                                       | 2                                      |
| Public                                                                  | Mississippi State University           | 277,060                                   | 168,188                                 | 108,872                                    | 64.7%                                          | -4                                      | -4                                     |
| Public                                                                  | Montana State University - Bozeman     | 97,523                                    | 57,362                                  | 40,160                                     | 70.0%                                          | 7                                       | -4                                     |
| Public                                                                  | Naval Postgraduate School              |                                           | 1,440                                   |                                            |                                                |                                         |                                        |
| Public                                                                  | New Jersey Institute of Technology     | 65,725                                    | 37,705                                  | 28,021                                     | 74.3%                                          | 12                                      | -2                                     |
| Public                                                                  | New Mexico State Univ. - Las Cruces    | 96,142                                    | 92,241                                  | 3,901                                      | 4.2%                                           | -93                                     | -37                                    |
| Private                                                                 | New York University                    | 2,333,082                                 | 1,384,961                               | 948,122                                    | 68.5%                                          | -2                                      | 0                                      |
| Public                                                                  | North Carolina State University        | 708,195                                   | 306,755                                 | 401,440                                    | 130.9%                                         | 39                                      | 11                                     |
| Private                                                                 | Northeastern University                | 454,960                                   | 321,967                                 | 132,993                                    | 41.3%                                          | -9                                      | -1                                     |
| Private                                                                 | Northwestern University                | 6,069,385                                 | 3,600,950                               | 2,468,434                                  | 68.5%                                          | -1                                      | 0                                      |
| Public                                                                  | Ohio State University - Columbus       | 2,852,739                                 | 1,092,177                               | 1,760,562                                  | 161.2%                                         | 9                                       | 5                                      |
| Public                                                                  | Oklahoma State University - Stillwater | 351,923                                   | 202,688                                 | 149,235                                    | 73.6%                                          | 3                                       | 7                                      |

| Annual Giving in Constant 1998 Dollars |                                      |                                            |                                                |                                         |                                        | Doctorates Awarded            |                               |                                   |                                       |                                         |                                        |
|----------------------------------------|--------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|-------------------------------|-------------------------------|-----------------------------------|---------------------------------------|-----------------------------------------|----------------------------------------|
| 2019<br>Annual<br>Giving<br>x \$1000   | 2010<br>Annual<br>Giving<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank | 2019<br>Doctorates<br>Awarded | 2010<br>Doctorates<br>Awarded | Net<br>Change<br>in<br>Doctorates | Percent<br>Change<br>in<br>Doctorates | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| 112,778                                | 104,599                              | 8,178                                      | 7.8%                                           | -6                                      | -5                                     | 692                           | 418                           | 274                               | 65.6%                                 | 21                                      | 13                                     |
| 65,926                                 | 40,895                               | 25,031                                     | 61.2%                                          | 24                                      | 14                                     | 253                           | 222                           | 31                                | 14.0%                                 | -3                                      | -2                                     |
| 7,203                                  | 7,020                                | 183                                        | 2.6%                                           | -49                                     | -27                                    | 35                            | 137                           | -102                              | -74.5%                                | -189                                    | -103                                   |
| 31,560                                 | 51,774                               | -20,215                                    | -39.0%                                         | -50                                     | -18                                    | 100                           | 80                            | 20                                | 25.0%                                 | 15                                      | 7                                      |
| 86,740                                 | 49,114                               | 37,626                                     | 76.6%                                          | 29                                      | 11                                     | 535                           | 548                           | -13                               | -2.4%                                 | -9                                      | -4                                     |
| 31,677                                 | 51,695                               | -20,018                                    | -38.7%                                         | -48                                     | -16                                    | 81                            | 84                            | -3                                | -3.6%                                 | -21                                     | -12                                    |
| 127,989                                | 127,522                              | 466                                        | 0.4%                                           | -11                                     | -6                                     | 208                           | 187                           | 21                                | 11.2%                                 | -2                                      | -1                                     |
| 129,192                                | 87,292                               | 41,900                                     | 48.0%                                          | 7                                       | 5                                      | 191                           | 193                           | -2                                | -1.0%                                 | -13                                     | -5                                     |
| 79,753                                 | 38,662                               | 41,091                                     | 106.3%                                         | 40                                      | 16                                     | 322                           | 245                           | 77                                | 31.4%                                 | 8                                       | 5                                      |
| 61,863                                 | 52,675                               | 9,188                                      | 17.4%                                          | -4                                      | 1                                      | 219                           | 305                           | -86                               | -28.2%                                | -37                                     | -9                                     |
| 56,850                                 | 20,964                               | 35,886                                     | 171.2%                                         | 71                                      | 34                                     | 232                           | 162                           | 70                                | 43.2%                                 | 16                                      | 9                                      |
| 9,257                                  | 5,543                                | 3,714                                      | 67.0%                                          | 86                                      | 21                                     | 46                            | 50                            | -4                                | -8.0%                                 | -34                                     | -16                                    |
|                                        |                                      |                                            |                                                |                                         |                                        |                               |                               |                                   |                                       |                                         |                                        |
| 43,279                                 | 30,832                               | 12,447                                     | 40.4%                                          | 12                                      | 7                                      | 250                           | 227                           | 23                                | 10.1%                                 | -6                                      | -5                                     |
| 552,744                                | 273,354                              | 279,389                                    | 102.2%                                         | 2                                       | 2                                      | 669                           | 590                           | 79                                | 13.4%                                 | 1                                       | 1                                      |
| 224,932                                | 185,238                              | 39,694                                     | 21.4%                                          | -4                                      | -2                                     | 540                           | 516                           | 24                                | 4.7%                                  | -6                                      | -1                                     |
| 149,232                                | 90,669                               | 58,563                                     | 64.6%                                          | 10                                      | 7                                      | 81                            | 77                            | 4                                 | 5.2%                                  | -15                                     | -8                                     |
| 47,504                                 | 35,772                               | 11,732                                     | 32.8%                                          | 10                                      | 5                                      | 231                           | 115                           | 116                               | 100.9%                                | 51                                      | 20                                     |
| 282,946                                | 199,479                              | 83,466                                     | 41.8%                                          | 1                                       | 1                                      | 669                           | 333                           | 336                               | 100.9%                                | 37                                      | 13                                     |
| 138,067                                | 93,327                               | 44,740                                     | 47.9%                                          | 7                                       | 4                                      | 276                           | 220                           | 56                                | 25.5%                                 | 5                                       | 4                                      |
| 18,961                                 | 11,732                               | 7,229                                      | 61.6%                                          | 32                                      | 8                                      | 200                           | 127                           | 73                                | 57.5%                                 | 28                                      | 17                                     |
| 45,041                                 | 31,296                               | 13,745                                     | 43.9%                                          | 12                                      | 8                                      | 422                           | 343                           | 79                                | 23.0%                                 | 9                                       | 7                                      |
| 37,528                                 | 17,514                               | 20,014                                     | 114.3%                                         | 52                                      | 23                                     | 300                           | 202                           | 98                                | 48.5%                                 | 19                                      | 12                                     |
| 41,976                                 | 55,976                               | -13,999                                    | -25.0%                                         | -41                                     | -13                                    | 265                           | 294                           | -29                               | -9.9%                                 | -17                                     | -3                                     |
| 83,973                                 | 119,814                              | -35,841                                    | -29.9%                                         | -26                                     | -8                                     | 131                           | 103                           | 28                                | 27.2%                                 | 12                                      | 9                                      |
| 76,876                                 | 74,755                               | 2,121                                      | 2.8%                                           | -14                                     | -12                                    | 530                           | 490                           | 40                                | 8.2%                                  | -6                                      | -5                                     |
| 19,856                                 | 9,206                                | 10,650                                     | 115.7%                                         | 92                                      | 37                                     | 259                           | 213                           | 46                                | 21.6%                                 | 2                                       | 2                                      |
| 776,597                                | 397,862                              | 378,736                                    | 95.2%                                          | 1                                       | 1                                      | 750                           | 646                           | 104                               | 16.1%                                 | 4                                       | 1                                      |
| 68,309                                 | 74,199                               | -5,890                                     | -7.9%                                          | -19                                     | -2                                     | 49                            | 27                            | 22                                | 81.5%                                 | 48                                      | 25                                     |
| 133,261                                | 80,564                               | 52,697                                     | 65.4%                                          | 10                                      | 4                                      | 500                           | 441                           | 59                                | 13.4%                                 | -2                                      | -2                                     |
| 92,467                                 | 41,775                               | 50,692                                     | 121.3%                                         | 44                                      | 29                                     | 416                           | 316                           | 100                               | 31.6%                                 | 9                                       | 6                                      |
| 396,098                                | 286,599                              | 109,499                                    | 38.2%                                          | -2                                      | 0                                      | 591                           | 434                           | 157                               | 36.2%                                 | 13                                      | 4                                      |
| 58,560                                 | 35,024                               | 23,536                                     | 67.2%                                          | 25                                      | 11                                     | 180                           | 147                           | 33                                | 22.4%                                 | 2                                       | 1                                      |
| 60,361                                 | 57,328                               | 3,033                                      | 5.3%                                           | -13                                     | -10                                    | 299                           | 240                           | 59                                | 24.6%                                 | 4                                       | -1                                     |
| 257,241                                | 211,004                              | 46,237                                     | 21.9%                                          | -4                                      | -3                                     | 645                           | 607                           | 38                                | 6.3%                                  | -4                                      | -2                                     |
| 9,327                                  |                                      |                                            |                                                |                                         |                                        | 32                            | 25                            | 7                                 | 28.0%                                 | 2                                       | 2                                      |
| 33,440                                 | 31,039                               | 2,401                                      | 7.7%                                           | -7                                      | -6                                     | 163                           | 107                           | 56                                | 52.3%                                 | 29                                      | 16                                     |
| 99,035                                 | 81,158                               | 17,876                                     | 22.0%                                          | -2                                      | -6                                     | 553                           | 489                           | 64                                | 13.1%                                 | 1                                       | -1                                     |
| 44,114                                 | 25,303                               | 18,811                                     | 74.3%                                          | 28                                      | 18                                     | 173                           | 123                           | 50                                | 40.7%                                 | 23                                      | 13                                     |
| 16,020                                 | 6,682                                | 9,338                                      | 139.8%                                         | 134                                     | 44                                     | 71                            | 45                            | 26                                | 57.8%                                 | 40                                      | 23                                     |
|                                        |                                      |                                            |                                                |                                         |                                        | 12                            | 15                            | -3                                | -20.0%                                | -86                                     | -29                                    |
| 6,465                                  | 6,080                                | 385                                        | 6.3%                                           | -36                                     | -24                                    | 73                            | 59                            | 14                                | 23.7%                                 | 12                                      | 8                                      |
| 9,475                                  | 6,831                                | 2,644                                      | 38.7%                                          | 35                                      | 1                                      | 126                           | 71                            | 55                                | 77.5%                                 | 49                                      | 25                                     |
| 275,018                                | 221,395                              | 53,623                                     | 24.2%                                          | -4                                      | -3                                     | 435                           | 453                           | -18                               | -4.0%                                 | -10                                     | -3                                     |
| 90,351                                 | 59,309                               | 31,042                                     | 52.3%                                          | 13                                      | 8                                      | 533                           | 457                           | 76                                | 16.6%                                 | 0                                       | 1                                      |
| 26,414                                 | 18,918                               | 7,496                                      | 39.6%                                          | 18                                      | 14                                     | 184                           | 234                           | -50                               | -21.4%                                | -33                                     | -9                                     |
| 217,380                                | 120,185                              | 97,194                                     | 80.9%                                          | 9                                       | 2                                      | 443                           | 374                           | 69                                | 18.4%                                 | 7                                       | 3                                      |
| 239,200                                | 156,762                              | 82,437                                     | 52.6%                                          | 5                                       | 5                                      | 855                           | 738                           | 117                               | 15.9%                                 | 7                                       | 5                                      |
| 46,660                                 |                                      |                                            |                                                |                                         |                                        | 243                           | 172                           | 71                                | 41.3%                                 | 14                                      | 10                                     |

| Change: Private Support & Doctorates                                       |                                         | Endowment Assets in Constant 1998 Dollars |                                         |                                            |                                                |                                         |                                        |
|----------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------|-----------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                         | 2019<br>Endowment<br>Assets<br>x \$1000   | 2010<br>Endowment<br>Assets<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| Public                                                                     | Oregon Health & Science University      | 408,220                                   | 229,173                                 | 179,047                                    | 78.1%                                          | 6                                       | 4                                      |
| Public                                                                     | Oregon State University                 | 326,121                                   | 217,677                                 | 108,444                                    | 49.8%                                          | -14                                     | -3                                     |
| Public                                                                     | Penn. State Univ. - Hershey Med. Ctr.   | 301,506                                   | 121,614                                 | 179,892                                    | 147.9%                                         | 54                                      | 16                                     |
| Public                                                                     | Pennsylvania State Univ. - Univ. Park   | 1,281,402                                 | 599,963                                 | 681,438                                    | 113.6%                                         | 16                                      | 4                                      |
| Private                                                                    | Princeton University                    | 14,187,075                                | 8,341,845                               | 5,845,230                                  | 70.1%                                          | 0                                       | 0                                      |
| Public                                                                     | Purdue University - West Lafayette      | 1,381,512                                 | 963,873                                 | 417,639                                    | 43.3%                                          | -3                                      | -2                                     |
| Private                                                                    | Rensselaer Polytechnic Institute        | 393,142                                   | 405,272                                 | -12,130                                    | -3.0%                                          | -61                                     | -36                                    |
| Private                                                                    | Rice University                         | 3,436,307                                 | 2,389,200                               | 1,047,107                                  | 43.8%                                          | -1                                      | 0                                      |
| Private                                                                    | Rockefeller University                  | 1,201,130                                 | 1,010,253                               | 190,876                                    | 18.9%                                          | -11                                     | -7                                     |
| Private                                                                    | Rush University                         | 329,968                                   | 224,712                                 | 105,257                                    | 46.8%                                          | -19                                     | -13                                    |
| Public                                                                     | Rutgers University - New Brunswick      | 598,978                                   | 331,571                                 | 267,407                                    | 80.6%                                          | 17                                      | 0                                      |
| Private                                                                    | Scripps Research Institute              |                                           |                                         |                                            |                                                |                                         |                                        |
| Private                                                                    | Stanford University                     | 14,486,893                                | 8,351,620                               | 6,135,273                                  | 73.5%                                          | 0                                       | 0                                      |
| Public                                                                     | State Univ. of NY - Polytechnic Inst.   | 3,807                                     |                                         |                                            |                                                |                                         |                                        |
| Public                                                                     | Stony Brook University                  | 166,966                                   | 63,279                                  | 103,687                                    | 163.9%                                         | 95                                      | 27                                     |
| Public                                                                     | Temple University                       | 351,609                                   | 138,901                                 | 212,708                                    | 153.1%                                         | 58                                      | 23                                     |
| Public                                                                     | Texas A&M Univ. - College Station       | 7,002,474                                 | 3,023,964                               | 3,978,510                                  | 131.6%                                         | 5                                       | 1                                      |
| Private                                                                    | Thomas Jefferson University             | 510,668                                   | 292,982                                 | 217,686                                    | 74.3%                                          | 11                                      | 14                                     |
| Private                                                                    | Tufts University                        | 1,010,476                                 | 729,705                                 | 280,771                                    | 38.5%                                          | -6                                      | -4                                     |
| Private                                                                    | Tulane University                       | 757,805                                   | 534,237                                 | 223,568                                    | 41.8%                                          | -2                                      | 2                                      |
| Public                                                                     | Uniformed Services Univ of the HS       |                                           |                                         |                                            |                                                |                                         |                                        |
| Public                                                                     | University at Albany                    | 39,249                                    | 16,376                                  | 22,873                                     | 139.7%                                         | 32                                      | 11                                     |
| Public                                                                     | University at Buffalo                   | 396,865                                   | 270,293                                 | 126,572                                    | 46.8%                                          | -10                                     | -3                                     |
| Public                                                                     | University of Alabama - Birmingham      | 276,180                                   | 186,985                                 | 89,195                                     | 47.7%                                          | -23                                     | -12                                    |
| Public                                                                     | University of Alabama - Huntsville      | 42,996                                    | 30,549                                  | 12,446                                     | 40.7%                                          | -88                                     | -44                                    |
| Public                                                                     | University of Alaska - Fairbanks        | 115,751                                   | 88,409                                  | 27,342                                     | 30.9%                                          | -29                                     | -13                                    |
| Public                                                                     | University of Arizona                   | 525,303                                   | 288,726                                 | 236,577                                    | 81.9%                                          | 20                                      | 2                                      |
| Public                                                                     | University of Arkansas - Fayetteville   | 649,060                                   | 412,444                                 | 236,617                                    | 57.4%                                          | -1                                      | -5                                     |
| Public                                                                     | Univ. of Arkansas for Med. Sciences     | 20,557                                    | 14,711                                  | 5,845                                      | 39.7%                                          | -187                                    | -79                                    |
| Public                                                                     | University of California - Berkeley     | 2,589,660                                 | 1,578,418                               | 1,011,242                                  | 64.1%                                          | 0                                       | -1                                     |
| Public                                                                     | University of California - Davis        | 775,306                                   | 356,293                                 | 419,012                                    | 117.6%                                         | 29                                      | 10                                     |
| Public                                                                     | University of California - Irvine       | 532,174                                   | 141,159                                 | 391,015                                    | 277.0%                                         | 109                                     | 38                                     |
| Public                                                                     | University of California - Los Angeles  | 2,522,435                                 | 1,243,938                               | 1,278,497                                  | 102.8%                                         | 4                                       | 1                                      |
| Public                                                                     | University of California - Riverside    | 136,970                                   | 65,887                                  | 71,083                                     | 107.9%                                         | 63                                      | 13                                     |
| Public                                                                     | University of California - San Diego    | 889,901                                   | 285,494                                 | 604,407                                    | 211.7%                                         | 68                                      | 26                                     |
| Public                                                                     | Univ. of California - San Francisco     | 1,758,721                                 | 734,468                                 | 1,024,253                                  | 139.5%                                         | 15                                      | 4                                      |
| Public                                                                     | Univ. of California - Santa Barbara     | 115,037                                   | 102,130                                 | 12,907                                     | 12.6%                                          | -68                                     | -34                                    |
| Public                                                                     | University of California - Santa Cruz   | 111,140                                   | 62,507                                  | 48,632                                     | 77.8%                                          | 20                                      | -3                                     |
| Public                                                                     | University of Central Florida           | 89,479                                    | 60,807                                  | 28,672                                     | 47.2%                                          | -33                                     | -16                                    |
| Private                                                                    | University of Chicago                   | 4,340,053                                 | 3,368,720                               | 971,333                                    | 28.8%                                          | -3                                      | -2                                     |
| Public                                                                     | University of Cincinnati - Cincinnati   | 748,296                                   | 550,813                                 | 197,483                                    | 35.9%                                          | -4                                      | -5                                     |
| Public                                                                     | University of Colorado - Boulder        | 358,862                                   | 221,679                                 | 137,183                                    | 61.9%                                          | -8                                      | 0                                      |
| Public                                                                     | U. of Colorado - Denver/Anschutz Med.   | 309,111                                   | 161,649                                 | 147,462                                    | 91.2%                                          | 25                                      | 9                                      |
| Public                                                                     | University of Connecticut - Health Ctr. | 61,936                                    | 44,632                                  | 17,304                                     | 38.8%                                          | -57                                     | -24                                    |
| Public                                                                     | University of Connecticut - Storrs      | 182,870                                   | 123,791                                 | 59,080                                     | 47.7%                                          | -15                                     | -11                                    |
| Private                                                                    | University of Dayton                    | 311,128                                   | 211,614                                 | 99,514                                     | 47.0%                                          | -21                                     | -14                                    |
| Public                                                                     | University of Delaware                  | 773,584                                   | 666,884                                 | 106,700                                    | 16.0%                                          | -14                                     | -6                                     |
| Public                                                                     | University of Florida                   | 949,553                                   | 668,303                                 | 281,250                                    | 42.1%                                          | -6                                      | -3                                     |
| Public                                                                     | University of Georgia                   | 697,575                                   | 378,597                                 | 318,978                                    | 84.3%                                          | 9                                       | 1                                      |

| Annual Giving in Constant 1998 Dollars |                                      |                                            |                                                |                                         |                                        | Doctorates Awarded            |                               |                                   |                                       |                                         |                                        |
|----------------------------------------|--------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|-------------------------------|-------------------------------|-----------------------------------|---------------------------------------|-----------------------------------------|----------------------------------------|
| 2019<br>Annual<br>Giving<br>x \$1000   | 2010<br>Annual<br>Giving<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank | 2019<br>Doctorates<br>Awarded | 2010<br>Doctorates<br>Awarded | Net<br>Change<br>in<br>Doctorates | Percent<br>Change<br>in<br>Doctorates | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| 81,511                                 | 76,194                               | 5,317                                      | 7.0%                                           | -11                                     | -10                                    | 54                            | 46                            | 8                                 | 17.4%                                 | -2                                      | 2                                      |
| 60,064                                 | 47,104                               | 12,960                                     | 27.5%                                          | 4                                       | 0                                      | 249                           | 178                           | 71                                | 39.9%                                 | 15                                      | 11                                     |
| 29,182                                 | 22,192                               | 6,991                                      | 31.5%                                          | 11                                      | 2                                      | 37                            | 32                            | 5                                 | 15.6%                                 | -8                                      | -1                                     |
| 112,626                                | 96,626                               | 16,000                                     | 16.6%                                          | -4                                      | -5                                     | 668                           | 632                           | 36                                | 5.7%                                  | -4                                      | -2                                     |
| 147,756                                | 141,619                              | 6,137                                      | 4.3%                                           | -8                                      | -4                                     | 396                           | 349                           | 47                                | 13.5%                                 | 2                                       | 1                                      |
| 105,267                                | 114,957                              | -9,690                                     | -8.4%                                          | -13                                     | -10                                    | 745                           | 651                           | 94                                | 14.4%                                 | 2                                       | 2                                      |
| 24,734                                 | 24,113                               | 621                                        | 2.6%                                           | -16                                     | -7                                     | 164                           | 131                           | 33                                | 25.2%                                 | 9                                       | 4                                      |
| 62,675                                 | 63,212                               | -537                                       | -0.8%                                          | -16                                     | -1                                     | 207                           | 168                           | 39                                | 23.2%                                 | 4                                       | 0                                      |
| 38,762                                 | 56,572                               | -17,810                                    | -31.5%                                         | -47                                     | -16                                    | 30                            | 41                            | -11                               | -26.8%                                | -61                                     | -37                                    |
| 9,051                                  | 0                                    | 9,051                                      |                                                | 750                                     | 367                                    | 14                            | 48                            | -34                               | -70.8%                                | -189                                    | -117                                   |
| 87,298                                 | 63,743                               | 23,554                                     | 37.0%                                          | 6                                       | 2                                      | 737                           | 410                           | 327                               | 79.8%                                 | 26                                      | 17                                     |
| 600,531                                | 423,303                              | 177,228                                    | 41.9%                                          | -1                                      | -1                                     | 726                           | 661                           | 65                                | 9.8%                                  | -1                                      | -1                                     |
| 187                                    | 93                                   | 95                                         | 102.2%                                         | 118                                     | 54                                     | 5                             | 0                             | 5                                 |                                       | -19                                     | -15                                    |
| 28,587                                 | 27,135                               | 1,452                                      | 5.4%                                           | -18                                     | -10                                    | 311                           | 341                           | -30                               | -8.8%                                 | -14                                     | -12                                    |
| 41,977                                 | 26,465                               | 15,513                                     | 58.6%                                          | 16                                      | 9                                      | 217                           | 405                           | -188                              | -46.4%                                | -56                                     | -40                                    |
| 167,317                                | 123,397                              | 43,919                                     | 35.6%                                          | 1                                       | 2                                      | 758                           | 597                           | 161                               | 27.0%                                 | 8                                       | 5                                      |
| 30,808                                 | 23,798                               | 7,010                                      | 29.5%                                          | 5                                       | 3                                      | 15                            | 73                            | -58                               | -79.5%                                | -227                                    | -127                                   |
| 38,627                                 | 45,086                               | -6,459                                     | -14.3%                                         | -31                                     | -10                                    | 158                           | 133                           | 25                                | 18.8%                                 | -4                                      | -2                                     |
| 56,768                                 | 38,263                               | 18,505                                     | 48.4%                                          | 16                                      | 10                                     | 130                           | 113                           | 17                                | 15.0%                                 | 2                                       | 4                                      |
| 5,015                                  | 4,564                                | 450                                        | 9.9%                                           | -20                                     | -14                                    | 172                           | 131                           | 41                                | 31.3%                                 | 11                                      | 7                                      |
| 30,561                                 | 15,925                               | 14,635                                     | 91.9%                                          | 47                                      | 19                                     | 332                           | 367                           | -35                               | -9.5%                                 | -14                                     | -12                                    |
| 43,208                                 | 57,068                               | -13,859                                    | -24.3%                                         | -38                                     | -25                                    | 161                           | 186                           | -25                               | -13.4%                                | -26                                     | -17                                    |
| 1,561                                  | 1,041                                | 520                                        | 49.9%                                          | 100                                     | 37                                     | 25                            | 32                            | -7                                | -21.9%                                | -60                                     | -17                                    |
| 19,333                                 | 9,638                                | 9,695                                      | 100.6%                                         | 78                                      | 31                                     | 55                            | 37                            | 18                                | 48.6%                                 | 35                                      | 19                                     |
| 152,143                                | 93,499                               | 58,645                                     | 62.7%                                          | 11                                      | 5                                      | 451                           | 479                           | -28                               | -5.8%                                 | -10                                     | -9                                     |
| 121,477                                | 54,194                               | 67,283                                     | 124.2%                                         | 35                                      | 24                                     | 204                           | 160                           | 44                                | 27.5%                                 | 6                                       | 5                                      |
| 10,898                                 | 11,998                               | -1,100                                     | -9.2%                                          | -43                                     | -20                                    | 42                            | 38                            | 4                                 | 10.5%                                 | -9                                      | -2                                     |
| 229,561                                | 168,694                              | 60,867                                     | 36.1%                                          | 1                                       | 2                                      | 871                           | 869                           | 2                                 | 0.2%                                  | -1                                      | -1                                     |
| 94,187                                 | 61,175                               | 33,012                                     | 54.0%                                          | 15                                      | 10                                     | 562                           | 500                           | 62                                | 12.4%                                 | 0                                       | -2                                     |
| 111,325                                | 49,969                               | 61,356                                     | 122.8%                                         | 40                                      | 26                                     | 380                           | 402                           | -22                               | -5.5%                                 | -9                                      | -5                                     |
| 430,613                                | 232,572                              | 198,041                                    | 85.2%                                          | 4                                       | 0                                      | 721                           | 760                           | -39                               | -5.1%                                 | -6                                      | -4                                     |
| 12,596                                 | 13,559                               | -963                                       | -7.1%                                          | -47                                     | -25                                    | 305                           | 188                           | 117                               | 62.2%                                 | 27                                      | 18                                     |
| 153,273                                | 66,729                               | 86,544                                     | 129.7%                                         | 31                                      | 19                                     | 515                           | 437                           | 78                                | 17.8%                                 | 2                                       | 2                                      |
| 399,749                                | 198,670                              | 201,078                                    | 101.2%                                         | 9                                       | 2                                      | 135                           | 153                           | -18                               | -11.8%                                | -27                                     | -20                                    |
| 50,669                                 | 26,923                               | 23,746                                     | 88.2%                                          | 29                                      | 17                                     | 361                           | 347                           | 14                                | 4.0%                                  | -3                                      | -4                                     |
| 20,822                                 | 21,306                               | -484                                       | -2.3%                                          | -24                                     | -15                                    | 159                           | 145                           | 14                                | 9.7%                                  | -10                                     | -7                                     |
| 21,381                                 | 10,388                               | 10,994                                     | 105.8%                                         | 82                                      | 30                                     | 277                           | 192                           | 85                                | 44.3%                                 | 18                                      | 11                                     |
| 315,323                                | 164,534                              | 150,789                                    | 91.6%                                          | 9                                       | 4                                      | 439                           | 366                           | 73                                | 19.9%                                 | 8                                       | 3                                      |
| 65,735                                 | 59,336                               | 6,399                                      | 10.8%                                          | -9                                      | -9                                     | 244                           | 250                           | -6                                | -2.4%                                 | -16                                     | -12                                    |
| 81,156                                 | 44,813                               | 36,343                                     | 81.1%                                          | 28                                      | 17                                     | 407                           | 300                           | 107                               | 35.7%                                 | 13                                      | 9                                      |
| 91,517                                 | 34,248                               | 57,268                                     | 167.2%                                         | 59                                      | 37                                     | 128                           | 152                           | -24                               | -15.8%                                | -33                                     | -23                                    |
| 2,856                                  | 3,975                                | -1,119                                     | -28.1%                                         | -118                                    | -52                                    | 26                            | 22                            | 4                                 | 18.2%                                 | -8                                      | 2                                      |
| 27,209                                 | 18,460                               | 8,749                                      | 47.4%                                          | 23                                      | 7                                      | 316                           | 238                           | 78                                | 32.8%                                 | 10                                      | 5                                      |
| 19,032                                 | 13,992                               | 5,040                                      | 36.0%                                          | 1                                       | 5                                      | 41                            | 20                            | 21                                | 105.0%                                | 65                                      | 38                                     |
| 26,366                                 | 18,458                               | 7,908                                      | 42.8%                                          | 21                                      | 6                                      | 258                           | 251                           | 7                                 | 2.8%                                  | -13                                     | -9                                     |
| 186,043                                | 133,962                              | 52,081                                     | 38.9%                                          | 0                                       | 2                                      | 772                           | 841                           | -69                               | -8.2%                                 | -4                                      | -4                                     |
| 93,251                                 | 44,552                               | 48,699                                     | 109.3%                                         | 40                                      | 27                                     | 546                           | 459                           | 87                                | 19.0%                                 | 2                                       | 1                                      |

| Change: Private Support & Doctorates                                    |                                       | Endowment Assets in Constant 1998 Dollars |                                         |                                            |                                                |                                         |                                        |
|-------------------------------------------------------------------------|---------------------------------------|-------------------------------------------|-----------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2019<br>Endowment<br>Assets<br>x \$1000   | 2010<br>Endowment<br>Assets<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| Public                                                                  | University of Hawaii - Manoa          | 175,737                                   | 98,636                                  | 77,102                                     | 78.2%                                          | 22                                      | 2                                      |
| Public                                                                  | University of Houston - Univ. Park    | 351,345                                   | 292,113                                 | 59,232                                     | 20.3%                                          | -37                                     | -17                                    |
| Public                                                                  | University of Idaho                   | 153,818                                   | 98,659                                  | 55,158                                     | 55.9%                                          | 0                                       | -8                                     |
| Public                                                                  | University of Illinois - Chicago      | 191,997                                   | 99,298                                  | 92,699                                     | 93.4%                                          | 32                                      | 6                                      |
| Public                                                                  | Univ. of Illinois - Urbana-Champaign  | 985,405                                   | 567,917                                 | 417,488                                    | 73.5%                                          | 9                                       | 1                                      |
| Public                                                                  | University of Iowa                    | 821,350                                   | 446,844                                 | 374,506                                    | 83.8%                                          | 12                                      | 3                                      |
| Public                                                                  | University of Kansas - Lawrence       | 734,681                                   | 496,587                                 | 238,094                                    | 47.9%                                          | -2                                      | -6                                     |
| Public                                                                  | University of Kansas Medical Center   | 218,213                                   | 135,203                                 | 83,010                                     | 61.4%                                          | 4                                       | -3                                     |
| Public                                                                  | University of Kentucky                | 745,146                                   | 460,828                                 | 284,318                                    | 61.7%                                          | 4                                       | -3                                     |
| Public                                                                  | University of Louisville              | 389,910                                   | 396,590                                 | -6,679                                     | -1.7%                                          | -61                                     | -24                                    |
| Public                                                                  | University of Maryland - Baltimore    | 171,470                                   | 94,836                                  | 76,634                                     | 80.8%                                          | 25                                      | 7                                      |
| Public                                                                  | Univ. of Maryland - Baltimore County  | 53,013                                    | 28,748                                  | 24,265                                     | 84.4%                                          | 12                                      | -1                                     |
| Public                                                                  | University of Maryland - College Park | 331,473                                   | 215,213                                 | 116,260                                    | 54.0%                                          | -10                                     | -1                                     |
| Public                                                                  | Univ. of Massachusetts - Amherst      | 189,922                                   | 105,938                                 | 83,984                                     | 79.3%                                          | 16                                      | -1                                     |
| Public                                                                  | Univ. of Mass. Med. Sch. - Worcester  | 113,586                                   | 75,408                                  | 38,177                                     | 50.6%                                          | -4                                      | -8                                     |
| Private                                                                 | University of Miami                   | 559,173                                   | 356,180                                 | 202,993                                    | 57.0%                                          | -2                                      | 4                                      |
| Public                                                                  | University of Michigan - Ann Arbor    | 6,515,023                                 | 3,968,347                               | 2,546,677                                  | 64.2%                                          | -3                                      | -2                                     |
| Public                                                                  | University of Minnesota - Twin Cities | 2,034,946                                 | 1,379,174                               | 655,772                                    | 47.5%                                          | -4                                      | -3                                     |
| Public                                                                  | University of Missouri - Columbia     | 550,203                                   | 291,582                                 | 258,621                                    | 88.7%                                          | 25                                      | 4                                      |
| Public                                                                  | University of Montana - Missoula      | 103,738                                   | 71,414                                  | 32,323                                     | 45.3%                                          | -20                                     | -15                                    |
| Public                                                                  | University of Nebraska - Lincoln      | 535,765                                   | 414,769                                 | 120,996                                    | 29.2%                                          | -23                                     | -16                                    |
| Public                                                                  | University of Nebraska Medical Ctr.   | 153,075                                   | 95,716                                  | 57,360                                     | 59.9%                                          | 5                                       | -3                                     |
| Public                                                                  | University of Nevada - Reno           | 196,206                                   | 122,793                                 | 73,413                                     | 59.8%                                          | 0                                       | -4                                     |
| Public                                                                  | Univ. of New Hampshire - Durham       | 213,208                                   | 120,525                                 | 92,683                                     | 76.9%                                          | 17                                      | 2                                      |
| Public                                                                  | Univ. of New Mexico - Albuquerque     | 247,713                                   | 184,959                                 | 62,754                                     | 33.9%                                          | -31                                     | -18                                    |
| Public                                                                  | Univ. of North Carolina - Chapel Hill | 1,879,175                                 | 1,259,830                               | 619,345                                    | 49.2%                                          | -3                                      | -3                                     |
| Public                                                                  | University of North Dakota            | 152,496                                   | 62,174                                  | 90,322                                     | 145.3%                                         | 89                                      | 24                                     |
| Private                                                                 | University of Notre Dame              | 5,872,317                                 | 3,171,134                               | 2,701,183                                  | 85.2%                                          | 0                                       | 1                                      |
| Public                                                                  | University of Oklahoma - HSC          | 312,559                                   | 162,046                                 | 150,513                                    | 92.9%                                          | 27                                      | 10                                     |
| Public                                                                  | University of Oklahoma - Norman       | 637,469                                   | 398,668                                 | 238,801                                    | 59.9%                                          | 0                                       | -5                                     |
| Public                                                                  | University of Oregon                  | 499,509                                   | 255,598                                 | 243,911                                    | 95.4%                                          | 26                                      | 7                                      |
| Private                                                                 | University of Pennsylvania            | 7,541,771                                 | 3,419,277                               | 4,122,494                                  | 120.6%                                         | 4                                       | 2                                      |
| Public                                                                  | University of Pittsburgh - Pittsburgh | 2,299,193                                 | 1,214,951                               | 1,084,242                                  | 89.2%                                          | 3                                       | 1                                      |
| Public                                                                  | University of Rhode Island            | 76,405                                    | 48,003                                  | 28,402                                     | 59.2%                                          | -22                                     | -10                                    |
| Private                                                                 | University of Rochester               | 1,192,165                                 | 869,347                                 | 322,818                                    | 37.1%                                          | -3                                      | -1                                     |
| Public                                                                  | Univ. of South Carolina - Columbia    | 417,001                                   | 258,878                                 | 158,123                                    | 61.1%                                          | 5                                       | 3                                      |
| Public                                                                  | University of South Florida - Tampa   | 262,986                                   | 182,121                                 | 80,865                                     | 44.4%                                          | -22                                     | -13                                    |
| Private                                                                 | University of Southern California     | 3,037,827                                 | 1,766,614                               | 1,271,213                                  | 72.0%                                          | 2                                       | 2                                      |
| Public                                                                  | University of Tennessee - Knoxville   | 388,531                                   | 345,753                                 | 42,779                                     | 12.4%                                          | -47                                     | -21                                    |
| Public                                                                  | University of Texas - Austin          | 7,526,878                                 | 3,834,435                               | 3,692,443                                  | 96.3%                                          | 1                                       | 1                                      |
| Public                                                                  | University of Texas - El Paso         | 143,636                                   | 88,767                                  | 54,869                                     | 61.8%                                          | 15                                      | -1                                     |
| Public                                                                  | University of Texas HSC - Houston     | 289,352                                   | 102,187                                 | 187,165                                    | 183.2%                                         | 74                                      | 19                                     |
| Public                                                                  | Univ. of Texas HSC - San Antonio      | 324,536                                   | 227,442                                 | 97,095                                     | 42.7%                                          | -24                                     | -9                                     |
| Public                                                                  | U. of Texas MD Anderson Cancer Ctr.   | 762,736                                   | 361,939                                 | 400,797                                    | 110.7%                                         | 25                                      | 7                                      |
| Public                                                                  | U. of Texas Med. Branch - Galveston   | 313,835                                   | 260,665                                 | 53,170                                     | 20.4%                                          | -34                                     | -15                                    |
| Public                                                                  | Univ. of Texas SW Med. Ctr. - Dallas  | 1,089,684                                 | 757,483                                 | 332,201                                    | 43.9%                                          | -5                                      | -2                                     |
| Public                                                                  | University of Utah                    | 649,738                                   | 339,511                                 | 310,226                                    | 91.4%                                          | 23                                      | 4                                      |
| Public                                                                  | University of Vermont                 | 303,799                                   | 179,567                                 | 124,232                                    | 69.2%                                          | 2                                       | 1                                      |
| Public                                                                  | University of Virginia                | 3,753,144                                 | 2,365,646                               | 1,387,498                                  | 58.7%                                          | 1                                       | 0                                      |

| Annual Giving in Constant 1998 Dollars |                                      |                                            |                                                |                                         |                                        | Doctorates Awarded            |                               |                                   |                                       |                                         |                                        |
|----------------------------------------|--------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|-------------------------------|-------------------------------|-----------------------------------|---------------------------------------|-----------------------------------------|----------------------------------------|
| 2019<br>Annual<br>Giving<br>x \$1000   | 2010<br>Annual<br>Giving<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank | 2019<br>Doctorates<br>Awarded | 2010<br>Doctorates<br>Awarded | Net<br>Change<br>in<br>Doctorates | Percent<br>Change<br>in<br>Doctorates | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| 23,522                                 | 26,489                               | -2,967                                     | -11.2%                                         | -29                                     | -16                                    | 204                           | 205                           | -1                                | -0.5%                                 | -15                                     | -9                                     |
| 53,679                                 | 48,416                               | 5,262                                      | 10.9%                                          | -5                                      | -7                                     | 389                           | 231                           | 158                               | 68.4%                                 | 28                                      | 19                                     |
| 16,141                                 | 10,997                               | 5,144                                      | 46.8%                                          | 27                                      | 9                                      | 47                            | 88                            | -41                               | -46.6%                                | -98                                     | -52                                    |
| 31,275                                 | 41,969                               | -10,694                                    | -25.5%                                         | -35                                     | -22                                    | 349                           | 292                           | 57                                | 19.5%                                 | 5                                       | 2                                      |
| 127,717                                | 96,073                               | 31,644                                     | 32.9%                                          | 0                                       | -1                                     | 816                           | 780                           | 36                                | 4.6%                                  | 2                                       | 1                                      |
| 74,236                                 | 77,322                               | -3,086                                     | -4.0%                                          | -20                                     | -18                                    | 452                           | 404                           | 48                                | 11.9%                                 | 5                                       | 4                                      |
| 80,352                                 | 55,184                               | 25,168                                     | 45.6%                                          | 11                                      | 5                                      | 325                           | 242                           | 83                                | 34.3%                                 | 11                                      | 4                                      |
| 21,359                                 | 13,796                               | 7,563                                      | 54.8%                                          | 30                                      | 7                                      | 41                            | 21                            | 20                                | 95.2%                                 | 58                                      | 26                                     |
| 81,742                                 | 44,168                               | 37,573                                     | 85.1%                                          | 34                                      | 23                                     | 309                           | 312                           | -3                                | -1.0%                                 | -12                                     | -11                                    |
| 43,311                                 | 36,229                               | 7,082                                      | 19.5%                                          | 2                                       | 0                                      | 164                           | 142                           | 22                                | 15.5%                                 | -1                                      | -2                                     |
| 31,242                                 | 52,453                               | -21,211                                    | -40.4%                                         | -54                                     | -35                                    | 88                            | 86                            | 2                                 | 2.3%                                  | -16                                     | -9                                     |
| 8,077                                  | 8,924                                | -847                                       | -9.5%                                          | -65                                     | -30                                    | 94                            | 86                            | 8                                 | 9.3%                                  | -3                                      | -1                                     |
| 68,345                                 | 61,293                               | 7,052                                      | 11.5%                                          | -6                                      | -8                                     | 641                           | 577                           | 64                                | 11.1%                                 | -2                                      | -1                                     |
| 22,186                                 | 15,297                               | 6,890                                      | 45.0%                                          | 21                                      | 6                                      | 295                           | 255                           | 40                                | 15.7%                                 | -5                                      | -7                                     |
| 19,681                                 | 4,457                                | 15,224                                     | 341.6%                                         | 282                                     | 99                                     | 68                            | 55                            | 13                                | 23.6%                                 | 11                                      | 8                                      |
| 98,587                                 | 101,523                              | -2,937                                     | -2.9%                                          | -11                                     | -1                                     | 212                           | 156                           | 56                                | 35.9%                                 | 11                                      | 5                                      |
| 268,245                                | 174,140                              | 94,105                                     | 54.0%                                          | 2                                       | 2                                      | 874                           | 842                           | 32                                | 3.8%                                  | 1                                       | 1                                      |
| 201,138                                | 171,822                              | 29,315                                     | 17.1%                                          | -4                                      | -1                                     | 702                           | 680                           | 22                                | 3.2%                                  | -4                                      | -2                                     |
| 80,856                                 | 67,394                               | 13,462                                     | 20.0%                                          | -4                                      | -6                                     | 501                           | 306                           | 195                               | 63.7%                                 | 25                                      | 18                                     |
| 22,661                                 | 15,889                               | 6,772                                      | 42.6%                                          | 22                                      | 6                                      | 39                            | 95                            | -56                               | -58.9%                                | -129                                    | -70                                    |
| 64,587                                 | 44,647                               | 19,940                                     | 44.7%                                          | 14                                      | 6                                      | 283                           | 257                           | 26                                | 10.1%                                 | -7                                      | -9                                     |
| 52,715                                 | 37,065                               | 15,649                                     | 42.2%                                          | 14                                      | 5                                      | 65                            | 83                            | -18                               | -21.7%                                | -45                                     | -24                                    |
| 23,787                                 | 17,179                               | 6,609                                      | 38.5%                                          | 20                                      | 6                                      | 134                           | 126                           | 8                                 | 6.3%                                  | -6                                      | -8                                     |
| 13,685                                 | 10,203                               | 3,482                                      | 34.1%                                          | 25                                      | 10                                     | 76                            | 56                            | 20                                | 35.7%                                 | 23                                      | 16                                     |
| 41,405                                 | 41,501                               | -96                                        | -0.2%                                          | -17                                     | -12                                    | 198                           | 208                           | -10                               | -4.8%                                 | -19                                     | -13                                    |
| 205,020                                | 178,624                              | 26,396                                     | 14.8%                                          | -5                                      | -2                                     | 501                           | 483                           | 18                                | 3.7%                                  | -6                                      | -5                                     |
| 13,348                                 | 4,285                                | 9,063                                      | 211.5%                                         | 242                                     | 83                                     | 74                            | 105                           | -31                               | -29.5%                                | -58                                     | -32                                    |
| 275,217                                | 123,301                              | 151,915                                    | 123.2%                                         | 15                                      | 5                                      | 281                           | 165                           | 116                               | 70.3%                                 | 31                                      | 12                                     |
| 6,526                                  | 13,209                               | -6,683                                     | -50.6%                                         | -204                                    | -83                                    | 25                            | 32                            | -7                                | -21.9%                                | -60                                     | -17                                    |
| 58,734                                 | 76,650                               | -17,916                                    | -23.4%                                         | -38                                     | -31                                    | 239                           | 204                           | 35                                | 17.2%                                 | -2                                      | -2                                     |
| 105,750                                | 65,825                               | 39,925                                     | 60.7%                                          | 16                                      | 9                                      | 182                           | 173                           | 9                                 | 5.2%                                  | -9                                      | -5                                     |
| 392,775                                | 290,819                              | 101,956                                    | 35.1%                                          | -4                                      | -2                                     | 551                           | 544                           | 7                                 | 1.3%                                  | -5                                      | -1                                     |
| 71,189                                 | 76,124                               | -4,935                                     | -6.5%                                          | -19                                     | -17                                    | 419                           | 448                           | -29                               | -6.5%                                 | -13                                     | -9                                     |
| 13,241                                 | 8,935                                | 4,306                                      | 48.2%                                          | 47                                      | 18                                     | 110                           | 90                            | 20                                | 22.2%                                 | 4                                       | -3                                     |
| 62,035                                 | 42,453                               | 19,582                                     | 46.1%                                          | 15                                      | 8                                      | 261                           | 275                           | -14                               | -5.1%                                 | -16                                     | -4                                     |
| 60,443                                 | 50,146                               | 10,298                                     | 20.5%                                          | 1                                       | -2                                     | 388                           | 270                           | 118                               | 43.7%                                 | 15                                      | 9                                      |
| 30,768                                 | 22,491                               | 8,277                                      | 36.8%                                          | 14                                      | 4                                      | 374                           | 288                           | 86                                | 29.9%                                 | 10                                      | 6                                      |
| 355,794                                | 244,007                              | 111,787                                    | 45.8%                                          | -3                                      | 0                                      | 762                           | 803                           | -41                               | -5.1%                                 | -4                                      | -1                                     |
| 56,475                                 | 59,062                               | -2,587                                     | -4.4%                                          | -22                                     | -17                                    | 393                           | 410                           | -17                               | -4.1%                                 | -11                                     | -7                                     |
| 195,942                                | 157,392                              | 38,550                                     | 24.5%                                          | -2                                      | 0                                      | 855                           | 818                           | 37                                | 4.5%                                  | 1                                       | 1                                      |
| 10,151                                 | 14,131                               | -3,980                                     | -28.2%                                         | -99                                     | -43                                    | 92                            | 45                            | 47                                | 104.4%                                | 68                                      | 36                                     |
| 30,918                                 | 24,893                               | 6,025                                      | 24.2%                                          | 3                                       | 2                                      | 178                           | 122                           | 56                                | 45.9%                                 | 25                                      | 15                                     |
| 23,037                                 | 25,949                               | -2,912                                     | -11.2%                                         | -29                                     | -14                                    | 48                            | 44                            | 4                                 | 9.1%                                  | -7                                      | -2                                     |
| 81,170                                 | 61,355                               | 19,815                                     | 32.3%                                          | 3                                       | 0                                      |                               |                               |                                   |                                       |                                         |                                        |
| 37,995                                 | 18,780                               | 19,215                                     | 102.3%                                         | 46                                      | 19                                     | 40                            | 58                            | -18                               | -31.0%                                | -67                                     | -32                                    |
| 63,345                                 | 76,007                               | -12,663                                    | -16.7%                                         | -27                                     | -23                                    | 78                            | 112                           | -34                               | -30.4%                                | -59                                     | -32                                    |
| 128,100                                | 70,664                               | 57,436                                     | 81.3%                                          | 17                                      | 11                                     | 346                           | 312                           | 34                                | 10.9%                                 | -3                                      | -4                                     |
| 22,868                                 | 17,636                               | 5,233                                      | 29.7%                                          | 11                                      | 1                                      | 66                            | 61                            | 5                                 | 8.2%                                  | -9                                      | -3                                     |
| 150,925                                | 154,396                              | -3,471                                     | -2.2%                                          | -6                                      | -3                                     | 360                           | 360                           | 0                                 | 0.0%                                  | -6                                      | -6                                     |

| Change: Private Support & Doctorates                                    |                                       | Endowment Assets in Constant 1998 Dollars |                                         |                                            |                                                |                                         |                                        |
|-------------------------------------------------------------------------|---------------------------------------|-------------------------------------------|-----------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2019<br>Endowment<br>Assets<br>x \$1000   | 2010<br>Endowment<br>Assets<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| Public                                                                  | University of Washington - Seattle    | 1,513,104                                 | 1,090,589                               | 422,516                                    | 38.7%                                          | -4                                      | -3                                     |
| Public                                                                  | University of Wisconsin - Madison     | 1,842,542                                 | 1,036,179                               | 806,363                                    | 77.8%                                          | 1                                       | 1                                      |
| Public                                                                  | University of Wyoming                 | 301,568                                   | 164,903                                 | 136,664                                    | 82.9%                                          | 14                                      | 4                                      |
| Public                                                                  | Utah State University                 | 205,507                                   | 99,978                                  | 105,529                                    | 105.6%                                         | 38                                      | 8                                      |
| Private                                                                 | Vanderbilt University                 | 2,522,672                                 | 1,896,305                               | 626,367                                    | 33.0%                                          | -4                                      | -2                                     |
| Public                                                                  | Virginia Commonwealth University      | 1,068,162                                 | 167,245                                 | 900,917                                    | 538.7%                                         | 142                                     | 57                                     |
| Public                                                                  | Virginia Polytechnic Inst. and St. U. | 627,351                                   | 298,738                                 | 328,612                                    | 110.0%                                         | 32                                      | 6                                      |
| Private                                                                 | Wake Forest University                | 732,970                                   | 586,415                                 | 146,555                                    | 25.0%                                          | -14                                     | -5                                     |
| Public                                                                  | Washington State Univ. - Pullman      | 560,746                                   | 409,851                                 | 150,894                                    | 36.8%                                          | -13                                     | -11                                    |
| Private                                                                 | Washington University in St. Louis    | 4,157,043                                 | 2,698,470                               | 1,458,572                                  | 54.1%                                          | 1                                       | 1                                      |
| Public                                                                  | Wayne State University                | 206,078                                   | 135,255                                 | 70,823                                     | 52.4%                                          | -6                                      | -6                                     |
| Private                                                                 | Weill Cornell Medical College         | 874,687                                   | 590,117                                 | 284,570                                    | 48.2%                                          | -6                                      | -4                                     |
| Public                                                                  | West Virginia University              | 324,655                                   | 208,390                                 | 116,265                                    | 55.8%                                          | -10                                     | -1                                     |
| Private                                                                 | Woods Hole Oceanographic Inst.        |                                           | 174,941                                 |                                            |                                                |                                         |                                        |
| Private                                                                 | Yale University                       | 16,066,792                                | 10,797,045                              | 5,269,747                                  | 48.8%                                          | 0                                       | 0                                      |
| Private                                                                 | Yeshiva University                    | 354,507                                   | 647,699                                 | -293,192                                   | -45.3%                                         | -104                                    | -65                                    |

| Annual Giving in Constant 1998 Dollars |                                      |                                            |                                                |                                         |                                        | Doctorates Awarded            |                               |                                   |                                       |                                         |                                        |
|----------------------------------------|--------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------|----------------------------------------|-------------------------------|-------------------------------|-----------------------------------|---------------------------------------|-----------------------------------------|----------------------------------------|
| 2019<br>Annual<br>Giving<br>x \$1000   | 2010<br>Annual<br>Giving<br>x \$1000 | Net<br>Change<br>in<br>Constant<br>Dollars | Percent<br>Change<br>in<br>Constant<br>Dollars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank | 2019<br>Doctorates<br>Awarded | 2010<br>Doctorates<br>Awarded | Net<br>Change<br>in<br>Doctorates | Percent<br>Change<br>in<br>Doctorates | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| 372,808                                | 213,960                              | 158,848                                    | 74.2%                                          | 3                                       | 0                                      | 633                           | 683                           | -50                               | -7.3%                                 | -12                                     | -7                                     |
| 150,516                                | 226,036                              | -75,519                                    | -33.4%                                         | -21                                     | -13                                    | 805                           | 786                           | 19                                | 2.4%                                  | 0                                       | -1                                     |
| 26,239                                 | 13,452                               | 12,787                                     | 95.1%                                          | 55                                      | 20                                     | 113                           | 69                            | 44                                | 63.8%                                 | 40                                      | 19                                     |
| 16,049                                 | 20,287                               | -4,238                                     | -20.9%                                         | -57                                     | -28                                    | 99                            | 88                            | 11                                | 12.5%                                 | -1                                      | 0                                      |
| 95,057                                 | 106,082                              | -11,025                                    | -10.4%                                         | -15                                     | -4                                     | 324                           | 282                           | 42                                | 14.9%                                 | 0                                       | 3                                      |
| 38,895                                 | 40,434                               | -1,539                                     | -3.8%                                          | -18                                     | -12                                    | 326                           | 227                           | 99                                | 43.6%                                 | 17                                      | 9                                      |
| 72,753                                 | 51,995                               | 20,758                                     | 39.9%                                          | 11                                      | 5                                      | 472                           | 435                           | 37                                | 8.5%                                  | -1                                      | -1                                     |
| 97,491                                 | 39,767                               | 57,724                                     | 145.2%                                         | 53                                      | 17                                     | 36                            | 60                            | -24                               | -40.0%                                | -81                                     | -42                                    |
| 46,599                                 | 39,790                               | 6,809                                      | 17.1%                                          | -2                                      | 0                                      | 336                           | 195                           | 141                               | 72.3%                                 | 32                                      | 22                                     |
| 189,933                                | 101,144                              | 88,789                                     | 87.8%                                          | 12                                      | 6                                      | 262                           | 250                           | 12                                | 4.8%                                  | -9                                      | -2                                     |
| 42,191                                 | 26,078                               | 16,113                                     | 61.8%                                          | 18                                      | 11                                     | 223                           | 252                           | -29                               | -11.5%                                | -25                                     | -20                                    |
| 52,762                                 | 110,198                              | -57,436                                    | -52.1%                                         | -59                                     | -16                                    | 56                            | 57                            | -1                                | -1.8%                                 | -16                                     | -10                                    |
| 59,325                                 | 37,711                               | 21,614                                     | 57.3%                                          | 22                                      | 10                                     | 190                           | 186                           | 4                                 | 2.2%                                  | -9                                      | -5                                     |
|                                        | 7,014                                |                                            |                                                |                                         |                                        |                               |                               |                                   |                                       |                                         |                                        |
| 320,747                                | 236,843                              | 83,904                                     | 35.4%                                          | -3                                      | 0                                      | 433                           | 390                           | 43                                | 11.0%                                 | 2                                       | -2                                     |
| 18,161                                 | 67,669                               | -49,508                                    | -73.2%                                         | -150                                    | -66                                    | 101                           | 125                           | -24                               | -19.2%                                | -36                                     | -12                                    |

# The Top American Research Universities

| Change: Students                                                        |                                        | SAT Scores         |                    |                            |                                |                                         |                                        |
|-------------------------------------------------------------------------|----------------------------------------|--------------------|--------------------|----------------------------|--------------------------------|-----------------------------------------|----------------------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                        | 2018<br>Median SAT | 2009<br>Median SAT | Net<br>Change<br>in<br>SAT | Percent<br>Change<br>in<br>SAT | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| Public                                                                  | Arizona State University               | 1245               | 1080               | 165                        | 15.3%                          | 307                                     | 87                                     |
| Public                                                                  | Auburn University                      | 1295               | 1190               | 105                        | 8.8%                           | 49                                      | 7                                      |
| Public                                                                  | Augusta University                     | 1176               |                    |                            |                                |                                         |                                        |
| Private                                                                 | Baylor College of Medicine             |                    |                    |                            |                                |                                         |                                        |
| Private                                                                 | Boston University                      | 1415               | 1270               | 145                        | 11.4%                          | 51                                      | 42                                     |
| Private                                                                 | Brown University                       | 1485               | 1425               | 60                         | 4.2%                           | 1                                       | 1                                      |
| Private                                                                 | California Institute of Technology     | 1555               | 1515               | 40                         | 2.6%                           | 0                                       | 0                                      |
| Private                                                                 | Carnegie Mellon University             | 1500               | 1395               | 105                        | 7.5%                           | 21                                      | 21                                     |
| Private                                                                 | Case Western Reserve University        | 1430               | 1340               | 90                         | 6.7%                           | 12                                      | 12                                     |
| Public                                                                  | Clemson University                     | 1310               | 1225               | 85                         | 6.9%                           | 18                                      | -3                                     |
| Public                                                                  | Cleveland State University             | 1110               | 970                | 140                        | 14.4%                          | 407                                     | 138                                    |
| Private                                                                 | Cold Spring Harbor Laboratory          |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | Colorado State Univ. - Fort Collins    | 1175               | 1130               | 45                         | 4.0%                           | -71                                     | -48                                    |
| Private                                                                 | Columbia University                    | 1505               | 1455               | 50                         | 3.4%                           | 5                                       | 5                                      |
| Private                                                                 | Cornell University                     | 1465               | 1395               | 70                         | 5.0%                           | 5                                       | 5                                      |
| Private                                                                 | Dartmouth College                      | 1490               | 1440               | 50                         | 3.5%                           | -4                                      | -4                                     |
| Private                                                                 | Drexel University                      | 1275               | 1205               | 70                         | 5.8%                           | -2                                      | 10                                     |
| Private                                                                 | Duke University                        | 1500               | 1440               | 60                         | 4.2%                           | 5                                       | 5                                      |
| Private                                                                 | Emory University                       | 1435               | 1405               | 30                         | 2.1%                           | -12                                     | -11                                    |
| Public                                                                  | Florida International University       | 1175               | 1100               | 75                         | 6.8%                           | 43                                      | -13                                    |
| Public                                                                  | Florida State University               | 1275               | 1200               | 75                         | 6.3%                           | 16                                      | -7                                     |
| Public                                                                  | George Mason University                | 1220               | 1140               | 80                         | 7.0%                           | 46                                      | 4                                      |
| Private                                                                 | George Washington University           | 1370               | 1280               | 90                         | 7.0%                           | 9                                       | 9                                      |
| Private                                                                 | Georgetown University                  | 1450               | 1400               | 50                         | 3.6%                           | -1                                      | 0                                      |
| Public                                                                  | Georgia Institute of Technology        | 1465               | 1335               | 130                        | 9.7%                           | 30                                      | 1                                      |
| Public                                                                  | Georgia State University               | 1155               | 1070               | 85                         | 7.9%                           | 94                                      | -5                                     |
| Private                                                                 | Harvard University                     | 1520               | 1475               | 45                         | 3.1%                           | 2                                       | 2                                      |
| Private                                                                 | Icahn School of Med. at Mount Sinai    |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | Indiana University - Bloomington       | 1255               | 1175               | 80                         | 6.8%                           | 33                                      | 0                                      |
| Public                                                                  | Iowa State University                  | 1210               | 1150               | 60                         | 5.2%                           | 7                                       | -9                                     |
| Private                                                                 | Johns Hopkins University               | 1500               | 1400               | 100                        | 7.1%                           | 19                                      | 19                                     |
| Public                                                                  | Kansas State University                |                    | 1110               |                            |                                |                                         |                                        |
| Public                                                                  | Louisiana State Univ. - Baton Rouge    | 1240               | 1170               | 70                         | 6.0%                           | 22                                      | -6                                     |
| Private                                                                 | Massachusetts Inst. of Technology      | 1535               | 1465               | 70                         | 4.8%                           | 6                                       | 6                                      |
| Private                                                                 | Medical College of Wisconsin           |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | Medical University of South Carolina   |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | Michigan State University              | 1210               | 1150               | 60                         | 5.2%                           | 7                                       | -9                                     |
| Public                                                                  | Mississippi State University           | 1225               | 1090               | 135                        | 12.4%                          | 207                                     | 57                                     |
| Public                                                                  | Montana State University - Bozeman     | 1195               | 1110               | 85                         | 7.7%                           | 70                                      | 3                                      |
| Public                                                                  | Naval Postgraduate School              |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | New Jersey Institute of Technology     | 1285               | 1125               | 160                        | 14.2%                          | 195                                     | 55                                     |
| Public                                                                  | New Mexico State Univ. - Las Cruces    | 1040               | 970                | 70                         | 7.2%                           | 58                                      | -9                                     |
| Private                                                                 | New York University                    | 1410               | 1320               | 90                         | 6.8%                           | 6                                       | 6                                      |
| Public                                                                  | North Carolina State University        | 1340               | 1180               | 160                        | 13.6%                          | 124                                     | 37                                     |
| Private                                                                 | Northeastern University                | 1460               | 1285               | 175                        | 13.6%                          | 55                                      | 47                                     |
| Private                                                                 | Northwestern University                | 1500               | 1445               | 55                         | 3.8%                           | 4                                       | 4                                      |
| Public                                                                  | Ohio State University - Columbus       | 1355               | 1240               | 115                        | 9.3%                           | 41                                      | 10                                     |
| Public                                                                  | Oklahoma State University - Stillwater | 1210               | 1130               | 80                         | 7.1%                           | 40                                      | 2                                      |
| Public                                                                  | Oregon Health & Science University     |                    |                    |                            |                                |                                         |                                        |

# The Top American Research Universities

| National Merit and Achievement Scholars |                                       |                                          |                                              |                                         |                                        | Headcount Enrollment                       |                                            |                                   |                                       |
|-----------------------------------------|---------------------------------------|------------------------------------------|----------------------------------------------|-----------------------------------------|----------------------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------|---------------------------------------|
| 2019<br>National<br>Merit<br>Scholars   | 2010<br>National<br>Merit<br>Scholars | Net<br>Change<br>in<br>Merit<br>Scholars | Percent<br>Change<br>in<br>Merit<br>Scholars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank | Fall 2018<br>Total<br>Student<br>Headcount | Fall 2009<br>Total<br>Student<br>Headcount | Net<br>Change<br>in<br>Enrollment | Percent<br>Change<br>in<br>Enrollment |
| 136                                     | 104                                   | 32                                       | 30.8%                                        | 10                                      | 3                                      | 111,249                                    | 68,064                                     | 43,185                            | 63.4%                                 |
| 34                                      | 145                                   | -111                                     | -76.6%                                       | -50                                     | -27                                    | 30,440                                     | 24,602                                     | 5,838                             | 23.7%                                 |
| 1                                       | 0                                     | 1                                        |                                              | 164                                     | 50                                     | 8,458                                      |                                            |                                   |                                       |
|                                         |                                       |                                          |                                              |                                         |                                        | 1,581                                      | 1,428                                      | 153                               | 10.7%                                 |
| 66                                      | 42                                    | 24                                       | 57.1%                                        | 21                                      | 15                                     | 34,657                                     | 31,960                                     | 2,697                             | 8.4%                                  |
| 87                                      | 97                                    | -10                                      | -10.3%                                       | 2                                       | 2                                      | 10,257                                     | 8,574                                      | 1,683                             | 19.6%                                 |
| 40                                      | 42                                    | -2                                       | -4.8%                                        | 2                                       | 5                                      | 2,233                                      | 2,130                                      | 103                               | 4.8%                                  |
| 51                                      | 27                                    | 24                                       | 88.9%                                        | 36                                      | 24                                     | 14,029                                     | 11,197                                     | 2,832                             | 25.3%                                 |
| 51                                      | 39                                    | 12                                       | 30.8%                                        | 17                                      | 11                                     | 11,890                                     | 9,738                                      | 2,152                             | 22.1%                                 |
| 44                                      | 40                                    | 4                                        | 10.0%                                        | 10                                      | 3                                      | 24,951                                     | 19,111                                     | 5,840                             | 30.6%                                 |
| 1                                       | 2                                     | -1                                       | -50.0%                                       | 9                                       | -11                                    | 16,069                                     | 16,216                                     | -147                              | -0.9%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        |                                            |                                            |                                   |                                       |
| 7                                       | 3                                     | 4                                        | 133.3%                                       | 91                                      | 21                                     | 33,478                                     | 28,902                                     | 4,576                             | 15.8%                                 |
| 67                                      | 87                                    | -20                                      | -23.0%                                       | -5                                      | 2                                      | 31,077                                     | 24,230                                     | 6,847                             | 28.3%                                 |
| 74                                      | 61                                    | 13                                       | 21.3%                                        | 12                                      | 10                                     | 23,600                                     | 20,633                                     | 2,967                             | 14.4%                                 |
| 58                                      | 95                                    | -37                                      | -38.9%                                       | -14                                     | -5                                     | 6,572                                      | 5,987                                      | 585                               | 9.8%                                  |
| 3                                       | 5                                     | -2                                       | -40.0%                                       | 1                                       | 14                                     | 24,634                                     | 22,493                                     | 2,141                             | 9.5%                                  |
| 119                                     | 124                                   | -5                                       | -4.0%                                        | 3                                       | 2                                      | 16,606                                     | 14,350                                     | 2,256                             | 15.7%                                 |
| 67                                      | 80                                    | -13                                      | -16.3%                                       | -3                                      | 3                                      | 14,458                                     | 12,930                                     | 1,528                             | 11.8%                                 |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 20                                     | 57,942                                     | 39,610                                     | 18,332                            | 46.3%                                 |
| 20                                      | 21                                    | -1                                       | -4.8%                                        | 10                                      | -4                                     | 41,005                                     | 39,785                                     | 1,220                             | 3.1%                                  |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 20                                     | 37,316                                     | 32,067                                     | 5,249                             | 16.4%                                 |
| 0                                       | 20                                    | -20                                      | -100.0%                                      | -202                                    | -113                                   | 28,172                                     | 25,061                                     | 3,111                             | 12.4%                                 |
| 36                                      | 33                                    | 3                                        | 9.1%                                         | 6                                       | 7                                      | 19,204                                     | 16,520                                     | 2,684                             | 16.2%                                 |
| 88                                      | 132                                   | -44                                      | -33.3%                                       | -3                                      | -3                                     | 32,723                                     | 20,291                                     | 12,432                            | 61.3%                                 |
| 0                                       | 2                                     | -2                                       | -100.0%                                      | -64                                     | -41                                    | 34,316                                     | 30,427                                     | 3,889                             | 12.8%                                 |
| 207                                     | 325                                   | -118                                     | -36.3%                                       | -6                                      | -4                                     | 31,566                                     | 27,651                                     | 3,915                             | 14.2%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 1,214                                      | 1,004                                      | 210                               | 20.9%                                 |
| 64                                      | 63                                    | 1                                        | 1.6%                                         | 2                                       | -2                                     | 43,503                                     | 42,347                                     | 1,156                             | 2.7%                                  |
| 34                                      | 48                                    | -14                                      | -29.2%                                       | -16                                     | -11                                    | 34,992                                     | 27,945                                     | 7,047                             | 25.2%                                 |
| 51                                      | 32                                    | 19                                       | 59.4%                                        | 27                                      | 18                                     | 26,152                                     | 20,383                                     | 5,769                             | 28.3%                                 |
| 8                                       | 12                                    | -4                                       | -33.3%                                       | 8                                       | -2                                     | 22,221                                     | 23,581                                     | -1,360                            | -5.8%                                 |
| 30                                      | 42                                    | -12                                      | -28.6%                                       | -17                                     | -14                                    | 30,983                                     | 28,643                                     | 2,340                             | 8.2%                                  |
| 134                                     | 166                                   | -32                                      | -19.3%                                       | 2                                       | 3                                      | 11,574                                     | 10,384                                     | 1,190                             | 11.5%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 1,413                                      | 1,233                                      | 180                               | 14.6%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 2,944                                      | 2,513                                      | 431                               | 17.2%                                 |
| 51                                      | 42                                    | 9                                        | 21.4%                                        | 11                                      | 2                                      | 50,351                                     | 47,071                                     | 3,280                             | 7.0%                                  |
| 31                                      | 21                                    | 10                                       | 47.6%                                        | 29                                      | 8                                      | 21,974                                     | 18,601                                     | 3,373                             | 18.1%                                 |
| 9                                       | 7                                     | 2                                        | 28.6%                                        | 48                                      | 12                                     | 16,814                                     | 12,348                                     | 4,466                             | 36.2%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 2,737                                      | 2,484                                      | 253                               | 10.2%                                 |
| 0                                       | 1                                     | -1                                       | -100.0%                                      | -34                                     | -27                                    | 11,423                                     | 8,840                                      | 2,583                             | 29.2%                                 |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 20                                     | 14,289                                     | 18,526                                     | -4,237                            | -22.9%                                |
| 19                                      | 106                                   | -87                                      | -82.1%                                       | -70                                     | -28                                    | 51,847                                     | 43,404                                     | 8,443                             | 19.5%                                 |
| 9                                       | 5                                     | 4                                        | 80.0%                                        | 71                                      | 17                                     | 35,479                                     | 33,819                                     | 1,660                             | 4.9%                                  |
| 155                                     | 67                                    | 88                                       | 131.3%                                       | 25                                      | 14                                     | 21,627                                     | 27,537                                     | -5,910                            | -21.5%                                |
| 244                                     | 241                                   | 3                                        | 1.2%                                         | 1                                       | 3                                      | 22,127                                     | 19,853                                     | 2,274                             | 11.5%                                 |
| 36                                      | 100                                   | -64                                      | -64.0%                                       | -37                                     | -20                                    | 61,170                                     | 55,014                                     | 6,156                             | 11.2%                                 |
| 23                                      | 31                                    | -8                                       | -25.8%                                       | -8                                      | -13                                    | 24,690                                     | 23,033                                     | 1,657                             | 7.2%                                  |
|                                         |                                       |                                          |                                              |                                         |                                        | 2,999                                      | 2,583                                      | 416                               | 16.1%                                 |

## The Top American Research Universities

| Change: Students                                                           |                                         | SAT Scores         |                    |                            |                                |                                         |                                        |
|----------------------------------------------------------------------------|-----------------------------------------|--------------------|--------------------|----------------------------|--------------------------------|-----------------------------------------|----------------------------------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                         | 2018<br>Median SAT | 2009<br>Median SAT | Net<br>Change<br>in<br>SAT | Percent<br>Change<br>in<br>SAT | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| Public                                                                     | Oregon State University                 | 1195               | 1085               | 110                        | 10.1%                          | 193                                     | 44                                     |
| Public                                                                     | Penn. State Univ. - Hershey Med. Ctr.   |                    |                    |                            |                                |                                         |                                        |
| Public                                                                     | Pennsylvania State Univ. - Univ. Park   | 1260               | 1200               | 60                         | 5.0%                           | -1                                      | -13                                    |
| Private                                                                    | Princeton University                    | 1505               | 1485               | 20                         | 1.3%                           | -2                                      | -2                                     |
| Public                                                                     | Purdue University - West Lafayette      | 1295               | 1160               | 135                        | 11.6%                          | 125                                     | 35                                     |
| Private                                                                    | Rensselaer Polytechnic Institute        | 1415               | 1360               | 55                         | 4.0%                           | -4                                      | -1                                     |
| Private                                                                    | Rice University                         | 1500               | 1425               | 75                         | 5.3%                           | 11                                      | 11                                     |
| Private                                                                    | Rockefeller University                  |                    |                    |                            |                                |                                         |                                        |
| Private                                                                    | Rush University                         |                    |                    |                            |                                |                                         |                                        |
| Public                                                                     | Rutgers University - New Brunswick      | 1300               | 1185               | 115                        | 9.7%                           | 76                                      | 17                                     |
| Private                                                                    | Scripps Research Institute              |                    |                    |                            |                                |                                         |                                        |
| Private                                                                    | Stanford University                     | 1495               | 1440               | 55                         | 3.8%                           | -3                                      | -3                                     |
| Public                                                                     | State Univ. of NY - Polytechnic Inst.   | 1175               | 1085               | 90                         | 8.3%                           | 116                                     | 9                                      |
| Public                                                                     | Stony Brook University                  | 1325               | 1195               | 130                        | 10.9%                          | 77                                      | 19                                     |
| Public                                                                     | Temple University                       |                    | 1105               |                            |                                |                                         |                                        |
| Public                                                                     | Texas A&M Univ. - College Station       | 1275               | 1190               | 85                         | 7.1%                           | 24                                      | -3                                     |
| Private                                                                    | Thomas Jefferson University             | 1150               |                    |                            |                                | 933                                     | 586                                    |
| Private                                                                    | Tufts University                        | 1445               | 1450               | -5                         | -0.3%                          | -19                                     | -18                                    |
| Private                                                                    | Tulane University                       | 1415               | 1320               | 95                         | 7.2%                           | 13                                      | 12                                     |
| Public                                                                     | Uniformed Services Univ. of the HS      |                    |                    |                            |                                |                                         |                                        |
| Public                                                                     | University at Albany                    | 1180               | 1100               | 80                         | 7.3%                           | 83                                      | 8                                      |
| Public                                                                     | University at Buffalo                   | 1245               | 1150               | 95                         | 8.3%                           | 71                                      | 13                                     |
| Public                                                                     | University of Alabama - Birmingham      | 1210               | 1110               | 100                        | 9.0%                           | 104                                     | 18                                     |
| Public                                                                     | University of Alabama - Huntsville      | 1310               | 1150               | 160                        | 13.9%                          | 154                                     | 48                                     |
| Public                                                                     | University of Alaska - Fairbanks        | 1095               | 1035               | 60                         | 5.8%                           | -14                                     | -37                                    |
| Public                                                                     | University of Arizona                   | 1195               | 1095               | 100                        | 9.1%                           | 131                                     | 28                                     |
| Public                                                                     | University of Arkansas - Fayetteville   | 1240               | 1190               | 50                         | 4.2%                           | -22                                     | -23                                    |
| Public                                                                     | Univ. of Arkansas for Med. Sciences     |                    |                    |                            |                                |                                         |                                        |
| Public                                                                     | University of California - Berkeley     | 1425               | 1330               | 95                         | 7.1%                           | 14                                      | 2                                      |
| Public                                                                     | University of California - Davis        | 1280               | 1175               | 105                        | 8.9%                           | 74                                      | 14                                     |
| Public                                                                     | University of California - Irvine       | 1300               | 1175               | 125                        | 10.6%                          | 95                                      | 24                                     |
| Public                                                                     | University of California - Los Angeles  | 1405               | 1275               | 130                        | 10.2%                          | 38                                      | 7                                      |
| Public                                                                     | University of California - Riverside    | 1220               | 1045               | 175                        | 16.7%                          | 441                                     | 140                                    |
| Public                                                                     | University of California - San Diego    | 1365               | 1255               | 110                        | 8.8%                           | 35                                      | 7                                      |
| Public                                                                     | Univ. of California - San Francisco     |                    |                    |                            |                                |                                         |                                        |
| Public                                                                     | Univ. of California - Santa Barbara     | 1345               | 1180               | 165                        | 14.0%                          | 127                                     | 38                                     |
| Public                                                                     | University of California - Santa Cruz   | 1295               | 1150               | 145                        | 12.6%                          | 137                                     | 40                                     |
| Public                                                                     | University of Central Florida           | 1250               | 1180               | 70                         | 5.9%                           | 19                                      | -7                                     |
| Private                                                                    | University of Chicago                   | 1500               | 1465               | 35                         | 2.4%                           | -1                                      | -1                                     |
| Public                                                                     | University of Cincinnati - Cincinnati   | 1260               | 1130               | 130                        | 11.5%                          | 128                                     | 35                                     |
| Public                                                                     | University of Colorado - Boulder        | 1255               | 1205               | 50                         | 4.1%                           | -33                                     | -23                                    |
| Public                                                                     | U. of Colorado - Denver/Anschutz Med.   | 1115               | 1050               | 65                         | 6.2%                           | -9                                      | -34                                    |
| Public                                                                     | University of Connecticut - Health Ctr. |                    |                    |                            |                                |                                         |                                        |
| Public                                                                     | University of Connecticut - Storrs      | 1315               | 1215               | 100                        | 8.2%                           | 31                                      | 2                                      |
| Private                                                                    | University of Dayton                    | 1280               | 1170               | 110                        | 9.4%                           | 78                                      | 61                                     |
| Public                                                                     | University of Delaware                  | 1255               | 1170               | 85                         | 7.3%                           | 37                                      | 3                                      |
| Public                                                                     | University of Florida                   | 1360               | 1250               | 110                        | 8.8%                           | 36                                      | 7                                      |
| Public                                                                     | University of Georgia                   | 1325               | 1225               | 100                        | 8.2%                           | 31                                      | 2                                      |
| Public                                                                     | University of Hawaii - Manoa            | 1145               | 1080               | 65                         | 6.0%                           | 44                                      | -21                                    |

# The Top American Research Universities

| National Merit and Achievement Scholars |                                       |                                          |                                              |                                         |                                        | Headcount Enrollment                       |                                            |                                   |                                       |
|-----------------------------------------|---------------------------------------|------------------------------------------|----------------------------------------------|-----------------------------------------|----------------------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------|---------------------------------------|
| 2019<br>National<br>Merit<br>Scholars   | 2010<br>National<br>Merit<br>Scholars | Net<br>Change<br>in<br>Merit<br>Scholars | Percent<br>Change<br>in<br>Merit<br>Scholars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank | Fall 2018<br>Total<br>Student<br>Headcount | Fall 2009<br>Total<br>Student<br>Headcount | Net<br>Change<br>in<br>Enrollment | Percent<br>Change<br>in<br>Enrollment |
| 5                                       | 17                                    | -12                                      | -70.6%                                       | -42                                     | -25                                    | 30,986                                     | 21,950                                     | 9,036                             | 41.2%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 943                                        | 817                                        | 126                               | 15.4%                                 |
| 18                                      | 17                                    | 1                                        | 5.9%                                         | 16                                      | -1                                     | 46,810                                     | 45,185                                     | 1,625                             | 3.6%                                  |
| 114                                     | 228                                   | -114                                     | -50.0%                                       | -11                                     | -5                                     | 8,374                                      | 7,592                                      | 782                               | 10.3%                                 |
| 116                                     | 16                                    | 100                                      | 625.0%                                       | 97                                      | 46                                     | 44,474                                     | 41,052                                     | 3,422                             | 8.3%                                  |
| 18                                      | 23                                    | -5                                       | -21.7%                                       | 0                                       | 8                                      | 7,895                                      | 6,901                                      | 994                               | 14.4%                                 |
| 65                                      | 177                                   | -112                                     | -63.3%                                       | -23                                     | -8                                     | 7,124                                      | 5,576                                      | 1,548                             | 27.8%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 239                                        | 215                                        | 24                                | 11.2%                                 |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 71                                     | 2,708                                      | 1,804                                      | 904                               | 50.1%                                 |
| 55                                      | 25                                    | 30                                       | 120.0%                                       | 45                                      | 18                                     | 50,254                                     | 37,366                                     | 12,888                            | 34.5%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        |                                            |                                            |                                   |                                       |
| 124                                     | 205                                   | -81                                      | -39.5%                                       | -7                                      | -2                                     | 17,381                                     | 18,498                                     | -1,117                            | -6.0%                                 |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 20                                     | 3,023                                      | 2,934                                      | 89                                | 3.0%                                  |
| 9                                       | 12                                    | -3                                       | -25.0%                                       | 19                                      | 2                                      | 26,256                                     | 24,681                                     | 1,575                             | 6.4%                                  |
| 1                                       | 2                                     | -1                                       | -50.0%                                       | 9                                       | -11                                    | 39,740                                     | 36,507                                     | 3,233                             | 8.9%                                  |
| 188                                     | 180                                   | 8                                        | 4.4%                                         | 2                                       | -2                                     | 68,679                                     | 48,702                                     | 19,977                            | 41.0%                                 |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 71                                     | 7,786                                      | 3,326                                      | 4,460                             | 134.1%                                |
| 38                                      | 64                                    | -26                                      | -40.6%                                       | -19                                     | -6                                     | 11,586                                     | 10,252                                     | 1,334                             | 13.0%                                 |
| 35                                      | 46                                    | -11                                      | -23.9%                                       | -12                                     | -3                                     | 12,646                                     | 11,464                                     | 1,182                             | 10.3%                                 |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 20                                     |                                            |                                            |                                   |                                       |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 20                                     | 17,944                                     | 18,020                                     | -76                               | -0.4%                                 |
| 0                                       | 1                                     | -1                                       | -100.0%                                      | -34                                     | -27                                    | 31,503                                     | 28,881                                     | 2,622                             | 9.1%                                  |
| 17                                      | 16                                    | 1                                        | 6.3%                                         | 16                                      | -1                                     | 21,923                                     | 16,874                                     | 5,049                             | 29.9%                                 |
| 1                                       | 1                                     | 0                                        | 0.0%                                         | 39                                      | 3                                      | 9,736                                      | 7,681                                      | 2,055                             | 26.8%                                 |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 20                                     | 7,404                                      | 9,137                                      | -1,733                            | -19.0%                                |
| 73                                      | 68                                    | 5                                        | 7.4%                                         | 5                                       | 0                                      | 44,097                                     | 38,767                                     | 5,330                             | 13.7%                                 |
| 39                                      | 27                                    | 12                                       | 44.4%                                        | 26                                      | 7                                      | 27,778                                     | 19,849                                     | 7,929                             | 39.9%                                 |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 20                                     | 2,758                                      | 2,774                                      | -16                               | -0.6%                                 |
| 132                                     | 86                                    | 46                                       | 53.5%                                        | 14                                      | 5                                      | 42,501                                     | 35,830                                     | 6,671                             | 18.6%                                 |
| 4                                       | 2                                     | 2                                        | 100.0%                                       | 75                                      | 16                                     | 38,167                                     | 31,247                                     | 6,920                             | 22.1%                                 |
| 2                                       | 1                                     | 1                                        | 100.0%                                       | 65                                      | 14                                     | 36,032                                     | 27,142                                     | 8,890                             | 32.8%                                 |
| 79                                      | 24                                    | 55                                       | 229.2%                                       | 64                                      | 27                                     | 44,537                                     | 38,550                                     | 5,987                             | 15.5%                                 |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 20                                     | 23,922                                     | 19,384                                     | 4,538                             | 23.4%                                 |
| 18                                      | 13                                    | 5                                        | 38.5%                                        | 32                                      | 7                                      | 37,887                                     | 28,418                                     | 9,469                             | 33.3%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 3,114                                      | 3,119                                      | -5                                | -0.2%                                 |
| 7                                       | 0                                     | 7                                        |                                              | 262                                     | 89                                     | 25,976                                     | 22,850                                     | 3,126                             | 13.7%                                 |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 20                                     | 19,700                                     | 16,775                                     | 2,925                             | 17.4%                                 |
| 91                                      | 49                                    | 42                                       | 85.7%                                        | 28                                      | 11                                     | 68,475                                     | 53,401                                     | 15,074                            | 28.2%                                 |
| 233                                     | 274                                   | -41                                      | -15.0%                                       | -3                                      | -1                                     | 17,002                                     | 15,094                                     | 1,908                             | 12.6%                                 |
| 30                                      | 41                                    | -11                                      | -26.8%                                       | -13                                     | -12                                    | 37,886                                     | 31,134                                     | 6,752                             | 21.7%                                 |
| 8                                       | 3                                     | 5                                        | 166.7%                                       | 98                                      | 25                                     | 36,681                                     | 33,010                                     | 3,671                             | 11.1%                                 |
| 0                                       | 0                                     | 0                                        |                                              | 91                                      | 20                                     | 25,645                                     | 23,715                                     | 1,930                             | 8.1%                                  |
|                                         |                                       |                                          |                                              |                                         |                                        | 592                                        | 331                                        | 261                               | 78.9%                                 |
| 4                                       | 6                                     | -2                                       | -33.3%                                       | 14                                      | -5                                     | 27,412                                     | 24,698                                     | 2,714                             | 11.0%                                 |
| 4                                       | 4                                     | 0                                        | 0.0%                                         | 34                                      | 33                                     | 11,241                                     | 10,908                                     | 333                               | 3.1%                                  |
| 3                                       | 1                                     | 2                                        | 200.0%                                       | 85                                      | 20                                     | 24,120                                     | 21,138                                     | 2,982                             | 14.1%                                 |
| 270                                     | 169                                   | 101                                      | 59.8%                                        | 13                                      | 3                                      | 52,218                                     | 50,691                                     | 1,527                             | 3.0%                                  |
| 62                                      | 50                                    | 12                                       | 24.0%                                        | 8                                       | -1                                     | 38,652                                     | 34,885                                     | 3,767                             | 10.8%                                 |
| 0                                       | 1                                     | -1                                       | -100.0%                                      | -34                                     | -27                                    | 17,710                                     | 20,435                                     | -2,725                            | -13.3%                                |

| Change: Students                                                        |                                       | SAT Scores         |                    |                            |                                |                                         |                                        |
|-------------------------------------------------------------------------|---------------------------------------|--------------------|--------------------|----------------------------|--------------------------------|-----------------------------------------|----------------------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | 2018<br>Median SAT | 2009<br>Median SAT | Net<br>Change<br>in<br>SAT | Percent<br>Change<br>in<br>SAT | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| Public                                                                  | University of Houston - Univ. Park    | 1220               | 1080               | 140                        | 13.0%                          | 258                                     | 70                                     |
| Public                                                                  | University of Idaho                   | 1115               | 1070               | 45                         | 4.2%                           | -90                                     | -71                                    |
| Public                                                                  | University of Illinois - Chicago      | 1120               | 1090               | 30                         | 2.8%                           | -162                                    | -93                                    |
| Public                                                                  | Univ. of Illinois - Urbana-Champaign  | 1340               | 1280               | 60                         | 4.7%                           | -13                                     | -8                                     |
| Public                                                                  | University of Iowa                    | 1225               | 1170               | 55                         | 4.7%                           | -10                                     | -15                                    |
| Public                                                                  | University of Kansas - Lawrence       | 1240               | 1130               | 110                        | 9.7%                           | 99                                      | 21                                     |
| Public                                                                  | University of Kansas Medical Center   |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | University of Kentucky                | 1240               | 1130               | 110                        | 9.7%                           | 99                                      | 21                                     |
| Public                                                                  | University of Louisville              | 1225               | 1110               | 115                        | 10.4%                          | 131                                     | 28                                     |
| Public                                                                  | University of Maine - Orono           | 1150               | 1075               | 75                         | 7.0%                           | 65                                      | -14                                    |
| Public                                                                  | University of Maryland - Baltimore    |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | Univ. of Maryland - Baltimore County  | 1275               | 1185               | 90                         | 7.6%                           | 45                                      | 4                                      |
| Public                                                                  | University of Maryland - College Park | 1380               | 1295               | 85                         | 6.6%                           | 4                                       | 0                                      |
| Public                                                                  | Univ. of Massachusetts - Amherst      | 1295               | 1170               | 125                        | 10.7%                          | 93                                      | 24                                     |
| Public                                                                  | Univ. of Mass. Med. Sch. - Worcester  |                    |                    |                            |                                |                                         |                                        |
| Private                                                                 | University of Miami                   | 1340               | 1275               | 65                         | 5.1%                           | -5                                      | 2                                      |
| Public                                                                  | University of Michigan - Ann Arbor    | 1420               | 1300               | 120                        | 9.2%                           | 25                                      | 4                                      |
| Public                                                                  | University of Minnesota - Twin Cities | 1325               | 1205               | 120                        | 10.0%                          | 53                                      | 11                                     |
| Public                                                                  | University of Missouri - Columbia     | 1240               | 1170               | 70                         | 6.0%                           | 22                                      | -6                                     |
| Public                                                                  | University of Montana - Missoula      | 1140               | 1070               | 70                         | 6.5%                           | 61                                      | -18                                    |
| Public                                                                  | University of Nebraska - Lincoln      | 1225               | 1170               | 55                         | 4.7%                           | -10                                     | -15                                    |
| Public                                                                  | University of Nebraska Medical Ctr.   |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | University of Nevada - Reno           | 1160               | 1058               | 102                        | 9.6%                           | 198                                     | 40                                     |
| Public                                                                  | Univ. of New Hampshire - Durham       | 1180               | 1135               | 45                         | 4.0%                           | -34                                     | -29                                    |
| Public                                                                  | Univ. of New Mexico - Albuquerque     | 1110               | 1030               | 80                         | 7.8%                           | 80                                      | 0                                      |
| Public                                                                  | Univ. of North Carolina - Chapel Hill | 1400               | 1300               | 100                        | 7.7%                           | 12                                      | 1                                      |
| Public                                                                  | University of North Dakota            | 1180               | 1050               | 130                        | 12.4%                          | 281                                     | 81                                     |
| Private                                                                 | University of Notre Dame              | 1500               | 1440               | 60                         | 4.2%                           | 5                                       | 5                                      |
| Public                                                                  | University of Oklahoma - HSC          |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | University of Oklahoma - Norman       | 1240               | 1190               | 50                         | 4.2%                           | -22                                     | -23                                    |
| Public                                                                  | University of Oregon                  | 1185               | 1104               | 81                         | 7.3%                           | 87                                      | 10                                     |
| Private                                                                 | University of Pennsylvania            | 1485               | 1440               | 45                         | 3.1%                           | -5                                      | -5                                     |
| Public                                                                  | University of Pittsburgh - Pittsburgh | 1350               | 1260               | 90                         | 7.1%                           | 9                                       | -2                                     |
| Public                                                                  | University of Rhode Island            | 1155               | 1045               | 110                        | 10.5%                          | 249                                     | 57                                     |
| Private                                                                 | University of Rochester               | 1410               | 1320               | 90                         | 6.8%                           | 6                                       | 6                                      |
| Public                                                                  | Univ. of South Carolina - Columbia    | 1275               | 1185               | 90                         | 7.6%                           | 45                                      | 4                                      |
| Public                                                                  | University of South Florida - Tampa   | 1250               | 1155               | 95                         | 8.2%                           | 69                                      | 13                                     |
| Private                                                                 | University of Southern California     | 1440               | 1360               | 80                         | 5.9%                           | 7                                       | 8                                      |
| Public                                                                  | University of Tennessee - Knoxville   | 1310               | 1205               | 105                        | 8.7%                           | 40                                      | 6                                      |
| Public                                                                  | University of Texas - Austin          | 1355               | 1225               | 130                        | 10.6%                          | 55                                      | 13                                     |
| Public                                                                  | University of Texas - El Paso         | 1035               | 905                | 130                        | 14.4%                          | 254                                     | 72                                     |
| Public                                                                  | University of Texas HSC - Houston     |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | Univ. of Texas HSC - San Antonio      |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | U. of Texas MD Anderson Cancer Ctr.   |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | U. of Texas Med. Branch - Galveston   |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | Univ. of Texas SW Med. Ctr. - Dallas  |                    |                    |                            |                                |                                         |                                        |
| Public                                                                  | University of Utah                    | 1225               | 1110               | 115                        | 10.4%                          | 131                                     | 28                                     |
| Public                                                                  | University of Vermont                 | 1270               | 1185               | 85                         | 7.2%                           | 37                                      | 0                                      |
| Public                                                                  | University of Virginia                | 1415               | 1335               | 80                         | 6.0%                           | 7                                       | -2                                     |

| National Merit and Achievement Scholars |                                       |                                          |                                              |                                         |                                        | Headcount Enrollment                       |                                            |                                   |                                       |
|-----------------------------------------|---------------------------------------|------------------------------------------|----------------------------------------------|-----------------------------------------|----------------------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------|---------------------------------------|
| 2019<br>National<br>Merit<br>Scholars   | 2010<br>National<br>Merit<br>Scholars | Net<br>Change<br>in<br>Merit<br>Scholars | Percent<br>Change<br>in<br>Merit<br>Scholars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank | Fall 2018<br>Total<br>Student<br>Headcount | Fall 2009<br>Total<br>Student<br>Headcount | Net<br>Change<br>in<br>Enrollment | Percent<br>Change<br>in<br>Enrollment |
| 11                                      | 16                                    | -5                                       | -31.3%                                       | 7                                       | -3                                     | 46,324                                     | 37,000                                     | 9,324                             | 25.2%                                 |
| 9                                       | 22                                    | -13                                      | -59.1%                                       | -17                                     | -16                                    | 11,841                                     | 11,957                                     | -116                              | -1.0%                                 |
| 7                                       | 4                                     | 3                                        | 75.0%                                        | 66                                      | 13                                     | 31,683                                     | 26,840                                     | 4,843                             | 18.0%                                 |
| 39                                      | 72                                    | -33                                      | -45.8%                                       | -23                                     | -15                                    | 49,702                                     | 43,881                                     | 5,821                             | 13.3%                                 |
| 30                                      | 26                                    | 4                                        | 15.4%                                        | 11                                      | -2                                     | 31,656                                     | 28,987                                     | 2,669                             | 9.2%                                  |
| 21                                      | 33                                    | -12                                      | -36.4%                                       | -20                                     | -17                                    | 27,690                                     | 26,826                                     | 864                               | 3.2%                                  |
|                                         |                                       |                                          |                                              |                                         |                                        | 3,956                                      | 3,178                                      | 778                               | 24.5%                                 |
| 70                                      | 33                                    | 37                                       | 112.1%                                       | 37                                      | 13                                     | 29,182                                     | 26,295                                     | 2,887                             | 11.0%                                 |
| 21                                      | 13                                    | 8                                        | 61.5%                                        | 40                                      | 12                                     | 21,430                                     | 21,016                                     | 414                               | 2.0%                                  |
| 4                                       | 5                                     | -1                                       | -20.0%                                       | 21                                      | -3                                     | 11,404                                     | 11,894                                     | -490                              | -4.1%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 6,777                                      | 6,382                                      | 395                               | 6.2%                                  |
| 1                                       | 5                                     | -4                                       | -80.0%                                       | -45                                     | -30                                    | 13,767                                     | 12,870                                     | 897                               | 7.0%                                  |
| 87                                      | 70                                    | 17                                       | 24.3%                                        | 10                                      | 3                                      | 41,200                                     | 37,195                                     | 4,005                             | 10.8%                                 |
| 2                                       |                                       | 2                                        |                                              | 190                                     | 61                                     | 30,593                                     | 27,016                                     | 3,577                             | 13.2%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 1,185                                      | 1,091                                      | 94                                | 8.6%                                  |
| 28                                      | 36                                    | -8                                       | -22.2%                                       | -12                                     |                                        | 17,331                                     | 15,629                                     | 1,702                             | 10.9%                                 |
| 68                                      | 71                                    | -3                                       | -4.2%                                        | 1                                       | -4                                     | 46,716                                     | 41,674                                     | 5,042                             | 12.1%                                 |
| 107                                     | 101                                   | 6                                        | 5.9%                                         | 3                                       | 1                                      | 50,734                                     | 51,659                                     | -925                              | -1.8%                                 |
| 41                                      | 26                                    | 15                                       | 57.7%                                        | 31                                      | 10                                     | 29,843                                     | 31,237                                     | -1,394                            | -4.5%                                 |
| 4                                       | 3                                     | 1                                        | 33.3%                                        | 59                                      | 9                                      | 10,962                                     | 14,921                                     | -3,959                            | -26.5%                                |
| 45                                      | 46                                    | -1                                       | -2.2%                                        | 3                                       | -1                                     | 25,820                                     | 24,100                                     | 1,720                             | 7.1%                                  |
|                                         |                                       |                                          |                                              |                                         |                                        | 3,972                                      | 3,237                                      | 735                               | 22.7%                                 |
| 7                                       | 10                                    | -3                                       | -30.0%                                       | 14                                      | -2                                     | 21,463                                     | 16,875                                     | 4,588                             | 27.2%                                 |
| 1                                       | 1                                     |                                          | 0.0%                                         | 39                                      | 3                                      | 15,298                                     | 15,253                                     | 45                                | 0.3%                                  |
| 8                                       | 19                                    | -11                                      | -57.9%                                       | -21                                     | -16                                    | 24,319                                     | 27,241                                     | -2,922                            | -10.7%                                |
| 25                                      | 170                                   | -145                                     | -85.3%                                       | -64                                     | -38                                    | 30,011                                     | 28,916                                     | 1,095                             | 3.8%                                  |
| 3                                       | 7                                     | -4                                       | -57.1%                                       | -22                                     | -18                                    | 13,847                                     | 13,172                                     | 675                               | 5.1%                                  |
| 53                                      | 55                                    | -2                                       | -3.6%                                        | 2                                       | 6                                      | 12,607                                     | 11,816                                     | 791                               | 6.7%                                  |
|                                         |                                       |                                          |                                              |                                         |                                        | 3,126                                      | 3,934                                      | -808                              | -20.5%                                |
| 87                                      | 232                                   | -145                                     | -62.5%                                       | -16                                     | -10                                    | 28,564                                     | 25,881                                     | 2,683                             | 10.4%                                 |
| 6                                       | 11                                    | -5                                       | -45.5%                                       | -3                                      | -9                                     | 22,644                                     | 22,335                                     | 309                               | 1.4%                                  |
| 126                                     | 138                                   | -12                                      | -8.7%                                        | 3                                       | 3                                      | 25,860                                     | 24,599                                     | 1,261                             | 5.1%                                  |
| 20                                      | 28                                    | -8                                       | -28.6%                                       | -11                                     | -15                                    | 28,673                                     | 28,328                                     | 345                               | 1.2%                                  |
|                                         |                                       |                                          |                                              |                                         |                                        | 17,777                                     | 16,389                                     | 1,388                             | 8.5%                                  |
| 38                                      | 46                                    | -8                                       | -17.4%                                       | -5                                      | 2                                      | 11,817                                     | 9,944                                      | 1,873                             | 18.8%                                 |
| 53                                      | 46                                    | 7                                        | 15.2%                                        | 9                                       | 1                                      | 34,795                                     | 28,482                                     | 6,313                             | 22.2%                                 |
| 35                                      | 15                                    | 20                                       | 133.3%                                       | 58                                      | 25                                     | 43,846                                     | 40,022                                     | 3,824                             | 9.6%                                  |
| 265                                     | 256                                   | 9                                        | 3.5%                                         | 2                                       | 3                                      | 47,310                                     | 34,824                                     | 12,486                            | 35.9%                                 |
| 31                                      | 19                                    | 12                                       | 63.2%                                        | 35                                      | 11                                     | 28,894                                     | 29,934                                     | -1,040                            | -3.5%                                 |
| 86                                      | 54                                    | 32                                       | 59.3%                                        | 19                                      | 4                                      | 51,832                                     | 50,995                                     | 837                               | 1.6%                                  |
|                                         |                                       |                                          |                                              |                                         |                                        | 25,151                                     | 21,011                                     | 4,140                             | 19.7%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 5,335                                      | 3,969                                      | 1,366                             | 34.4%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 3,292                                      | 3,223                                      | 69                                | 2.1%                                  |
|                                         |                                       |                                          |                                              |                                         |                                        | 376                                        | 208                                        | 168                               | 80.8%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 3,343                                      | 2,430                                      | 913                               | 37.6%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        | 2,266                                      | 2,459                                      | -193                              | -7.8%                                 |
| 37                                      | 17                                    | 20                                       | 117.6%                                       | 52                                      | 21                                     | 33,023                                     | 29,284                                     | 3,739                             | 12.8%                                 |
| 2                                       | 5                                     | -3                                       | -60.0%                                       | -19                                     | -19                                    | 13,395                                     | 13,391                                     | 4                                 | 0.0%                                  |
| 33                                      | 50                                    | -17                                      | -34.0%                                       | -21                                     | -16                                    | 24,639                                     | 24,355                                     | 284                               | 1.2%                                  |

| Change: Students                                                           |                                       | SAT Scores         |                    |                            |                                |                                         |                                        |
|----------------------------------------------------------------------------|---------------------------------------|--------------------|--------------------|----------------------------|--------------------------------|-----------------------------------------|----------------------------------------|
| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                       | 2018<br>Median SAT | 2009<br>Median SAT | Net<br>Change<br>in<br>SAT | Percent<br>Change<br>in<br>SAT | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank |
| Public                                                                     | University of Washington - Seattle    | 1340               | 1215               | 125                        | 10.3%                          | 53                                      | 12                                     |
| Public                                                                     | University of Wisconsin - Madison     | 1355               | 1260               | 95                         | 7.5%                           | 17                                      | 1                                      |
| Public                                                                     | University of Wyoming                 | 1210               | 1110               | 100                        | 9.0%                           | 104                                     | 18                                     |
| Public                                                                     | Utah State University                 | 1195               | 1110               | 85                         | 7.7%                           | 70                                      | 3                                      |
| Private                                                                    | Vanderbilt University                 | 1500               | 1420               | 80                         | 5.6%                           | 15                                      | 15                                     |
| Public                                                                     | Virginia Commonwealth University      | 1165               | 1085               | 80                         | 7.4%                           | 93                                      | 1                                      |
| Public                                                                     | Virginia Polytechnic Inst. and St. U. | 1285               | 1210               | 75                         | 6.2%                           | 3                                       | -9                                     |
| Private                                                                    | Wake Forest University                |                    | 1315               |                            |                                |                                         |                                        |
| Public                                                                     | Washington State Univ. - Pullman      | 1115               | 1085               | 30                         | 2.8%                           | -134                                    | -85                                    |
| Private                                                                    | Washington University in St. Louis    | 1480               | 1460               | 20                         | 1.4%                           | -11                                     | -11                                    |
| Public                                                                     | Wayne State University                | 1110               | 950                | 160                        | 16.8%                          | 501                                     | 180                                    |
| Private                                                                    | Weill Cornell Medical College         |                    |                    |                            |                                |                                         |                                        |
| Public                                                                     | West Virginia University              | 1180               | 1090               | 90                         | 8.3%                           | 109                                     | 18                                     |
| Private                                                                    | Woods Hole Oceanographic Inst.        |                    |                    |                            |                                |                                         |                                        |
| Public                                                                     | Wright State University - Dayton      | 1095               |                    |                            |                                |                                         |                                        |
| Private                                                                    | Yale University                       | 1515               | 1490               | 25                         | 1.7%                           | -3                                      | -3                                     |
| Private                                                                    | Yeshiva University                    | 1240               | 1210               | 30                         | 2.5%                           | -56                                     | -22                                    |

| National Merit and Achievement Scholars |                                       |                                          |                                              |                                         |                                        | Headcount Enrollment                       |                                            |                                   |                                       |
|-----------------------------------------|---------------------------------------|------------------------------------------|----------------------------------------------|-----------------------------------------|----------------------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------|---------------------------------------|
| 2019<br>National<br>Merit<br>Scholars   | 2010<br>National<br>Merit<br>Scholars | Net<br>Change<br>in<br>Merit<br>Scholars | Percent<br>Change<br>in<br>Merit<br>Scholars | Net<br>Change<br>in<br>National<br>Rank | Net<br>Change<br>in<br>Control<br>Rank | Fall 2018<br>Total<br>Student<br>Headcount | Fall 2009<br>Total<br>Student<br>Headcount | Net<br>Change<br>in<br>Enrollment | Percent<br>Change<br>in<br>Enrollment |
| 25                                      | 30                                    | -5                                       | -16.7%                                       | -2                                      | -9                                     | 47,400                                     | 45,943                                     | 1,457                             | 3.2%                                  |
| 22                                      | 25                                    | -3                                       | -12.0%                                       | 1                                       | -7                                     | 43,463                                     | 41,654                                     | 1,809                             | 4.3%                                  |
| 5                                       | 1                                     | 4                                        | 400.0%                                       | 117                                     | 34                                     | 12,450                                     | 12,427                                     | 23                                | 0.2%                                  |
| 3                                       | 1                                     | 2                                        | 200.0%                                       | 85                                      | 20                                     | 27,932                                     | 15,612                                     | 12,320                            | 78.9%                                 |
| 222                                     | 201                                   | 21                                       | 10.4%                                        | 4                                       | 5                                      | 12,824                                     | 12,506                                     | 318                               | 2.5%                                  |
| 8                                       | 0                                     | 8                                        |                                              | 269                                     | 93                                     | 30,697                                     | 32,172                                     | -1,475                            | -4.6%                                 |
| 5                                       | 21                                    | -16                                      | -76.2%                                       | -54                                     | -31                                    | 34,683                                     | 30,870                                     | 3,813                             | 12.4%                                 |
| 3                                       | 16                                    | -13                                      | -81.3%                                       | -70                                     | -34                                    | 8,401                                      | 7,079                                      | 1,322                             | 18.7%                                 |
| 5                                       | 4                                     | 1                                        | 25.0%                                        | 46                                      | 5                                      | 31,478                                     | 26,101                                     | 5,377                             | 20.6%                                 |
| 35                                      | 237                                   | -202                                     | -85.2%                                       | -57                                     | -27                                    | 15,852                                     | 13,575                                     | 2,277                             | 16.8%                                 |
| 6                                       | 9                                     | -3                                       | -33.3%                                       | 10                                      | -6                                     | 27,025                                     | 31,786                                     | -4,761                            | -15.0%                                |
|                                         |                                       |                                          |                                              |                                         |                                        | 1,248                                      | 1,149                                      | 99                                | 8.6%                                  |
| 18                                      | 25                                    | -7                                       | -28.0%                                       | -9                                      | -13                                    | 26,864                                     | 28,898                                     | -2,034                            | -7.0%                                 |
|                                         |                                       |                                          |                                              |                                         |                                        |                                            |                                            |                                   |                                       |
| 0                                       | 1                                     | -1                                       | -100.0%                                      | -34                                     | -27                                    | 14,403                                     | 17,558                                     | -3,155                            | -18.0%                                |
| 140                                     | 273                                   | -133                                     | -48.7%                                       | -8                                      | -4                                     | 13,433                                     | 11,593                                     | 1,840                             | 15.9%                                 |
| 2                                       | 1                                     | 1                                        | 100.0%                                       | 65                                      | 51                                     | 6,479                                      | 6,228                                      | 251                               | 4.0%                                  |

| Institutional Characteristics                                           |                                          |       |                                |                      |
|-------------------------------------------------------------------------|------------------------------------------|-------|--------------------------------|----------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                          | State | Highest Degree Offered         | Has a Medical School |
| Public                                                                  | Arizona State University                 | AZ    | Doctor's - Research/Scholar    |                      |
| Public                                                                  | Auburn University                        | AL    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Augusta University                       | GA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Baylor College of Medicine               | TX    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Boston University                        | MA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Brown University                         | RI    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | California Institute of Technology       | CA    | Doctor's - Research/Scholar    |                      |
| Private                                                                 | Carnegie Mellon University               | PA    | Doctor's - Research/Scholar    |                      |
| Private                                                                 | Case Western Reserve University          | OH    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Clemson University                       | SC    | Doctor's - Research/Scholar    |                      |
| Public                                                                  | Cleveland State University               | OH    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | Cold Spring Harbor Laboratory            | NY    | Non-Degree Granting            |                      |
| Public                                                                  | Colorado State University - Fort Collins | CO    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | Columbia University                      | NY    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Cornell University                       | NY    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | Dartmouth College                        | NH    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Drexel University                        | PA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Duke University                          | NC    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Emory University                         | GA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Florida International University         | FL    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Florida State University                 | FL    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | George Mason University                  | VA    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | George Washington University             | DC    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Georgetown University                    | DC    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Georgia Institute of Technology          | GA    | Doctor's - Research/Scholar    |                      |
| Public                                                                  | Georgia State University                 | GA    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | Harvard University                       | MA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Icahn School of Medicine at Mount Sinai  | NY    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Indiana University - Bloomington         | IN    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Iowa State University                    | IA    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | Johns Hopkins University                 | MD    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Kansas State University                  | KS    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | Louisiana State University - Baton Rouge | LA    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | Massachusetts Institute of Technology    | MA    | Doctor's - Research/Scholar    |                      |
| Private                                                                 | Medical College of Wisconsin             | WI    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Medical University of South Carolina     | SC    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Michigan State University                | MI    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Mississippi State University             | MS    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | Montana State University - Bozeman       | MT    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | Naval Postgraduate School                | CA    | Doctor's - Research/Scholar    |                      |
| Public                                                                  | New Jersey Institute of Technology       | NJ    | Doctor's - Research/Scholar    |                      |
| Public                                                                  | New Mexico State University - Las Cruces | NM    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | New York University                      | NY    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | North Carolina State University          | NC    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | Northeastern University                  | MA    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | Northwestern University                  | IL    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Ohio State University - Columbus         | OH    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Oklahoma State University - Stillwater   | OK    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | Oregon Health & Science University       | OR    | Doctor's - Res/Sch & Prof Prac | Yes                  |

| Federal Land Grant Institution | Federal Research Focus                                                      | Total Student Enrollment Fall 2018 |
|--------------------------------|-----------------------------------------------------------------------------|------------------------------------|
|                                | Moderate Life Sciences                                                      | 111,249                            |
| Yes                            | Moderate Engineering and Moderate Life Sciences                             | 30,440                             |
|                                | All Life Sciences                                                           | 8,458                              |
|                                | All Life Sciences                                                           | 1,581                              |
|                                | Strong Life Sciences                                                        | 34,657                             |
|                                | Strong Life Sciences                                                        | 10,257                             |
|                                | Strong Physical Sciences                                                    | 2,233                              |
|                                | Moderate Computer Sciences and Moderate Engineering                         | 14,029                             |
|                                | Heavy Life Sciences                                                         | 11,890                             |
| Yes                            | Strong Engineering and Moderate Life Sciences                               | 24,951                             |
|                                | Heavy Life Sciences                                                         | 16,069                             |
|                                | All Life Sciences                                                           |                                    |
| Yes                            | Moderate Environmental Sciences and Moderate Life Sciences                  | 33,478                             |
|                                | Strong Life Sciences                                                        | 31,077                             |
| Yes                            | Moderate Physical Sciences and Moderate Life Sciences                       | 23,600                             |
|                                | Strong Life Sciences                                                        | 6,572                              |
|                                | Moderate Engineering and Strong Life Sciences                               | 24,634                             |
|                                | Heavy Life Sciences                                                         | 16,606                             |
|                                | Heavy Life Sciences                                                         | 14,458                             |
|                                | Moderate Life Sciences                                                      | 57,942                             |
|                                | Moderate Engineering and Moderate Physical Sciences                         | 41,005                             |
|                                | Moderate Computer Sciences                                                  | 37,316                             |
|                                | Heavy Life Sciences                                                         | 28,172                             |
|                                | Heavy Life Sciences                                                         | 19,204                             |
|                                | Strong Engineering                                                          | 32,723                             |
|                                | Strong Life Sciences                                                        | 34,316                             |
|                                | Strong Life Sciences                                                        | 31,566                             |
|                                | All Life Sciences                                                           | 1,214                              |
|                                | Heavy Life Sciences                                                         | 43,503                             |
| Yes                            | Moderate Engineering and Moderate Life Sciences                             | 34,992                             |
|                                | Moderate Engineering and Moderate Life Sciences                             | 26,152                             |
| Yes                            | Strong Life Sciences                                                        | 22,221                             |
| Yes-System                     | Strong Life Sciences                                                        | 30,983                             |
|                                | Moderate Engineering                                                        | 11,574                             |
|                                | All Life Sciences                                                           | 1,413                              |
|                                | All Life Sciences                                                           | 2,944                              |
| Yes                            | Moderate Physical Sciences and Moderate Life Sciences                       | 50,351                             |
| Yes                            | Moderate Engineering and Moderate Life Sciences                             | 21,974                             |
| Yes                            | Moderate Engineering and Moderate Life Sciences                             | 16,814                             |
|                                | Moderate Engineering                                                        | 2,737                              |
|                                | Strong Engineering and Moderate Life Sciences                               | 11,423                             |
| Yes                            | Moderate Engineering, Moderate Life Sciences and Moderate Physical Sciences | 14,289                             |
|                                | Heavy Life Sciences                                                         | 51,847                             |
| Yes                            | Moderate Engineering and Moderate Life Sciences                             | 35,479                             |
|                                | Moderate Engineering                                                        | 21,627                             |
|                                | Strong Life Sciences                                                        | 22,127                             |
| Yes                            | Strong Life Sciences                                                        | 61,170                             |
| Yes                            | Moderate Engineering and Moderate Life Sciences                             | 24,690                             |
|                                | All Life Sciences                                                           | 2,999                              |

| Institutional Characteristics                                           |                                                      |       |                                |                      |
|-------------------------------------------------------------------------|------------------------------------------------------|-------|--------------------------------|----------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                                      | State | Highest Degree Offered         | Has a Medical School |
| Public                                                                  | Oregon State University                              | OR    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | Pennsylvania State University - Hershey Medical Ctr. | PA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Pennsylvania State University - University Park      | PA    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | Princeton University                                 | NJ    | Doctor's - Research/Scholar    |                      |
| Public                                                                  | Purdue University - West Lafayette                   | IN    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | Rensselaer Polytechnic Institute                     | NY    | Doctor's - Research/Scholar    |                      |
| Private                                                                 | Rice University                                      | TX    | Doctor's - Research/Scholar    |                      |
| Private                                                                 | Rockefeller University                               | NY    | Doctor's - Research/Scholar    |                      |
| Private                                                                 | Rush University                                      | IL    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Rutgers University - New Brunswick                   | NJ    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Scripps Research Institute                           | CA    | Non-Degree Granting            |                      |
| Private                                                                 | Stanford University                                  | CA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | State University of New York - Polytechnic Institute | NY    | Doctor's - Research/Scholar    |                      |
| Public                                                                  | Stony Brook University                               | NY    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Temple University                                    | PA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Texas A&M University - College Station               | TX    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Thomas Jefferson University                          | PA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Tufts University                                     | MA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Tulane University                                    | LA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Uniformed Services University of the Health Sciences | MD    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | University at Albany                                 | NY    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | University at Buffalo                                | NY    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of Alabama - Birmingham                   | AL    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of Alabama - Huntsville                   | AL    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | University of Alaska - Fairbanks                     | AK    | Doctor's - Research/Scholar    |                      |
| Public                                                                  | University of Arizona                                | AZ    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of Arkansas - Fayetteville                | AR    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | University of Arkansas for Medical Sciences          | AR    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of California - Berkeley                  | CA    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | University of California - Davis                     | CA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of California - Irvine                    | CA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of California - Los Angeles               | CA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of California - Riverside                 | CA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of California - San Diego                 | CA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of California - San Francisco             | CA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of California - Santa Barbara             | CA    | Doctor's - Research/Scholar    |                      |
| Public                                                                  | University of California - Santa Cruz                | CA    | Doctor's - Research/Scholar    |                      |
| Public                                                                  | University of Central Florida                        | FL    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | University of Chicago                                | IL    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of Cincinnati - Cincinnati                | OH    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of Colorado - Boulder                     | CO    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | University of Colorado - Denver/Anschutz Medical     | CO    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of Connecticut - Health Center            | CT    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of Connecticut - Storrs                   | CT    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | University of Dayton                                 | OH    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | University of Delaware                               | DE    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | University of Florida                                | FL    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of Georgia                                | GA    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | University of Hawaii - Manoa                         | HI    | Doctor's - Res/Sch & Prof Prac | Yes                  |

| Federal Land Grant Institution | Federal Research Focus                                     | Total Student Enrollment Fall 2018 |
|--------------------------------|------------------------------------------------------------|------------------------------------|
| Yes                            | Moderate Life Sciences                                     | 30,986                             |
|                                | All Life Sciences                                          | 943                                |
| Yes                            | Moderate Engineering                                       | 46,810                             |
|                                | Moderate Physical Sciences and Moderate Life Sciences      | 8,374                              |
| Yes                            | Moderate Engineering and Moderate Life Sciences            | 44,474                             |
|                                | Strong Engineering                                         | 7,895                              |
|                                | Moderate Engineering                                       | 7,124                              |
|                                | Heavy Life Sciences                                        | 239                                |
|                                | All Life Sciences                                          | 2,708                              |
| Yes                            | Strong Life Sciences                                       | 50,254                             |
|                                | All Life Sciences                                          |                                    |
|                                | Strong Life Sciences                                       | 17,381                             |
|                                | All Engineering                                            | 3,023                              |
|                                | Moderate Life Sciences                                     | 26,256                             |
|                                | Heavy Life Sciences                                        | 39,740                             |
| Yes                            | Moderate Environmental Sciences and Moderate Life Sciences | 68,679                             |
|                                | All Life Sciences                                          | 7,786                              |
|                                | Moderate Physical Sciences and Moderate Life Sciences      | 11,586                             |
|                                | Heavy Life Sciences                                        | 12,646                             |
|                                | All Life Sciences                                          |                                    |
|                                | Heavy Life Sciences                                        | 17,944                             |
|                                | Moderate Engineering and Strong Life Sciences              | 31,503                             |
|                                | Heavy Life Sciences                                        | 21,923                             |
|                                | Moderate Computer Sciences and Moderate Engineering        | 9,736                              |
| Yes-System                     | Strong Environmental Sciences                              | 7,404                              |
| Yes                            | Strong Life Sciences                                       | 44,097                             |
| Yes                            | Moderate Engineering and Moderate Life Sciences            | 27,778                             |
|                                | All Life Sciences                                          | 2,758                              |
| Yes-System                     | Moderate Physical Sciences and Moderate Life Sciences      | 42,501                             |
| Yes-System                     | Heavy Life Sciences                                        | 38,167                             |
| No-System                      | Strong Life Sciences                                       | 36,032                             |
| No-System                      | Strong Life Sciences                                       | 44,537                             |
| Yes-System                     | Moderate Life Sciences                                     | 23,922                             |
| No-System                      | Strong Life Sciences                                       | 37,887                             |
| No-System                      | Heavy Life Sciences                                        | 3,114                              |
| No-System                      | Moderate Engineering and Moderate Physical Sciences        | 25,976                             |
| No-System                      | Moderate Engineering                                       | 19,700                             |
|                                | Moderate Engineering                                       | 68,475                             |
|                                | Strong Life Sciences                                       | 17,002                             |
|                                | Heavy Life Sciences                                        | 37,886                             |
|                                | Moderate Environmental Sciences                            | 36,681                             |
|                                | All Life Sciences                                          | 25,645                             |
|                                | All Life Sciences                                          | 592                                |
| Yes                            | Moderate Engineering and Moderate Life Sciences            | 27,412                             |
|                                | All Engineering                                            | 11,241                             |
| Yes                            | Moderate Engineering                                       | 24,120                             |
| Yes                            | Strong Life Sciences                                       | 52,218                             |
| Yes                            | Strong Life Sciences                                       | 38,652                             |
| Yes                            | Moderate Environmental Sciences and Moderate Life Sciences | 17,710                             |

| Institutional Characteristics |                                                                         |       |                                |                      |
|-------------------------------|-------------------------------------------------------------------------|-------|--------------------------------|----------------------|
|                               | Institutions with Over \$40 Million in Federal Research, Alphabetically | State | Highest Degree Offered         | Has a Medical School |
| Public                        | University of Houston - University Park                                 | TX    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                        | University of Idaho                                                     | ID    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Illinois - Chicago                                        | IL    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Illinois - Urbana-Champaign                               | IL    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                        | University of Iowa                                                      | IA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Kansas - Lawrence                                         | KS    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                        | University of Kansas Medical Center                                     | KS    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Kentucky                                                  | KY    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Louisville                                                | KY    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Maine - Orono                                             | ME    | Doctor's - Research/Scholar    |                      |
| Public                        | University of Maryland - Baltimore                                      | MD    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Maryland - Baltimore County                               | MD    | Doctor's - Research/Scholar    |                      |
| Public                        | University of Maryland - College Park                                   | MD    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                        | University of Massachusetts - Amherst                                   | MA    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                        | University of Massachusetts Medical Sch. - Worcester                    | MA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                       | University of Miami                                                     | FL    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Michigan - Ann Arbor                                      | MI    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Minnesota - Twin Cities                                   | MN    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Missouri - Columbia                                       | MO    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Montana - Missoula                                        | MT    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                        | University of Nebraska - Lincoln                                        | NE    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                        | University of Nebraska Medical Center                                   | NE    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Nevada - Reno                                             | NV    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of New Hampshire - Durham                                    | NH    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                        | University of New Mexico - Albuquerque                                  | NM    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of North Carolina - Chapel Hill                              | NC    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of North Dakota                                              | ND    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                       | University of Notre Dame                                                | IN    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                        | University of Oklahoma - Health Sciences Center                         | OK    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Oklahoma - Norman                                         | OK    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                        | University of Oregon                                                    | OR    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                       | University of Pennsylvania                                              | PA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Pittsburgh - Pittsburgh                                   | PA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Rhode Island                                              | RI    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                       | University of Rochester                                                 | NY    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of South Carolina - Columbia                                 | SC    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of South Florida - Tampa                                     | FL    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                       | University of Southern California                                       | CA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Tennessee - Knoxville                                     | TN    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Texas - Austin                                            | TX    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Texas - El Paso                                           | TX    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                        | University of Texas Health Science Center - Houston                     | TX    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Texas Health Science Ctr. - San Antonio                   | TX    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Texas MD Anderson Cancer Center                           | TX    | Master's                       |                      |
| Public                        | University of Texas Medical Branch - Galveston                          | TX    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Texas SW Medical Center - Dallas                          | TX    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Utah                                                      | UT    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Vermont                                                   | VT    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                        | University of Virginia                                                  | VA    | Doctor's - Res/Sch & Prof Prac | Yes                  |

| Federal Land Grant Institution | Federal Research Focus                                     | Total Student Enrollment Fall 2018 |
|--------------------------------|------------------------------------------------------------|------------------------------------|
|                                | Moderate Engineering                                       | 46,324                             |
| Yes                            | Strong Life Sciences                                       | 11,841                             |
|                                | Heavy Life Sciences                                        | 31,683                             |
| Yes                            | Moderate Engineering                                       | 49,702                             |
|                                | Heavy Life Sciences                                        | 31,656                             |
|                                | Strong Life Sciences                                       | 27,690                             |
|                                | All Life Sciences                                          | 3,956                              |
| Yes                            | Strong Life Sciences                                       | 29,182                             |
|                                | Heavy Life Sciences                                        | 21,430                             |
| Yes                            | Moderate Life Sciences                                     | 11,404                             |
|                                | All Life Sciences                                          | 6,777                              |
|                                | Moderate Environmental Sciences                            | 13,767                             |
| Yes                            |                                                            | 41,200                             |
| Yes                            | Moderate Engineering and Moderate Life Sciences            | 30,593                             |
|                                | All Life Sciences                                          | 1,185                              |
|                                | Strong Life Sciences                                       | 17,331                             |
|                                | Strong Life Sciences                                       | 46,716                             |
| Yes                            | Strong Life Sciences                                       | 50,734                             |
| Yes-System                     | Strong Life Sciences                                       | 29,843                             |
|                                | Heavy Life Sciences                                        | 10,962                             |
| Yes-System                     | Moderate Life Sciences                                     | 25,820                             |
| No-System                      | All Life Sciences                                          | 3,972                              |
| Yes                            | Strong Life Sciences                                       | 21,463                             |
| Yes                            | Moderate Environmental Sciences and Moderate Life Sciences | 15,298                             |
|                                | Strong Life Sciences                                       | 24,319                             |
|                                | Strong Life Sciences                                       | 30,011                             |
|                                | Strong Engineering and Moderate Life Sciences              | 13,847                             |
|                                | Moderate Engineering and Moderate Physical Sciences        | 12,607                             |
|                                | All Life Sciences                                          | 3,126                              |
|                                | Moderate Environmental Sciences                            | 28,564                             |
|                                | Moderate Life Sciences                                     | 22,644                             |
|                                | Heavy Life Sciences                                        | 25,860                             |
|                                | Heavy Life Sciences                                        | 28,673                             |
| Yes                            | Moderate Environmental Sciences and Moderate Life Sciences | 17,777                             |
|                                | Moderate Physical Sciences and Strong Life Sciences        | 11,817                             |
|                                | Strong Life Sciences                                       | 34,795                             |
|                                | Strong Life Sciences                                       | 43,846                             |
|                                | Strong Life Sciences                                       | 47,310                             |
| Yes                            | Moderate Engineering                                       | 28,894                             |
|                                | Moderate Engineering                                       | 51,832                             |
|                                | Moderate Engineering and Moderate Life Sciences            | 25,151                             |
|                                | All Life Sciences                                          | 5,335                              |
|                                | All Life Sciences                                          | 3,292                              |
|                                | Heavy Life Sciences                                        | 376                                |
|                                | All Life Sciences                                          | 3,343                              |
|                                | All Life Sciences                                          | 2,266                              |
|                                | Strong Life Sciences                                       | 33,023                             |
| Yes                            | Heavy Life Sciences                                        | 13,395                             |
|                                | Strong Life Sciences                                       | 24,639                             |

| Institutional Characteristics                                           |                                                     |       |                                |                      |
|-------------------------------------------------------------------------|-----------------------------------------------------|-------|--------------------------------|----------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                                     | State | Highest Degree Offered         | Has a Medical School |
| Public                                                                  | University of Washington - Seattle                  | WA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of Wisconsin - Madison                   | WI    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | University of Wyoming                               | WY    | Doctor's - Res/Sch & Prof Prac |                      |
| Public                                                                  | Utah State University                               | UT    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | Vanderbilt University                               | TN    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Virginia Commonwealth University                    | VA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Virginia Polytechnic Institute and State University | VA    | Doctor's - Res/Sch & Prof Prac |                      |
| Private                                                                 | Wake Forest University                              | NC    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Washington State University - Pullman               | WA    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Washington University in St. Louis                  | MO    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | Wayne State University                              | MI    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Weill Cornell Medical College                       | NY    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Public                                                                  | West Virginia University                            | WV    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Woods Hole Oceanographic Institution                | MA    | Non-Degree Granting            |                      |
| Public                                                                  | Wright State University - Dayton                    | OH    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Yale University                                     | CT    | Doctor's - Res/Sch & Prof Prac | Yes                  |
| Private                                                                 | Yeshiva University                                  | NY    | Doctor's - Res/Sch & Prof Prac | Yes                  |

| Federal<br>Land<br>Grant<br>Institution |                                                        |                                          |
|-----------------------------------------|--------------------------------------------------------|------------------------------------------|
|                                         | Federal Research Focus                                 | Total Student<br>Enrollment<br>Fall 2017 |
|                                         | Strong Life Sciences                                   | 47,400                                   |
| Yes                                     | Strong Life Sciences                                   | 43,463                                   |
| Yes                                     | Strong Life Sciences                                   | 12,450                                   |
| Yes                                     | Heavy Engineering                                      | 27,932                                   |
|                                         | Heavy Life Sciences                                    | 12,824                                   |
|                                         | Heavy Life Sciences                                    | 30,697                                   |
| Yes                                     | Strong Engineering and Moderate Life Sciences          | 34,683                                   |
|                                         | All Life Sciences                                      | 8,401                                    |
| Yes                                     | Strong Life Sciences                                   | 31,478                                   |
|                                         | Heavy Life Sciences                                    | 15,852                                   |
|                                         | Heavy Life Sciences                                    | 27,025                                   |
|                                         | All Life Sciences                                      | 1,248                                    |
| Yes                                     | Moderate Engineering and Moderate Life Sciences        | 26,864                                   |
|                                         | Moderate Engineering and Strong Environmental Sciences |                                          |
|                                         | Strong Engineering                                     | 14,403                                   |
|                                         | Heavy Life Sciences                                    | 13,433                                   |
|                                         | All Life Sciences                                      | 6,479                                    |

# The Top American Research Universities

| Student Characteristics                                                 |                                        | Fall 2018 Headcount Enrollment |                              |       |                         |        |                                |                             |
|-------------------------------------------------------------------------|----------------------------------------|--------------------------------|------------------------------|-------|-------------------------|--------|--------------------------------|-----------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                        | Total Student Enrollment       | Total Undergraduate Students | %     | Total Graduate Students | %      | First-time, Full-time Students | Full-time Transfer Students |
| Public                                                                  | Arizona State University               | 111,249                        | 89,888                       | 80.8% | 21,361                  | 19.2%  | 12,557                         | 7,035                       |
| Public                                                                  | Auburn University                      | 30,440                         | 24,628                       | 80.9% | 5,812                   | 19.1%  | 4,744                          | 1,058                       |
| Public                                                                  | Augusta University                     | 8,458                          | 5,463                        | 64.6% | 2,995                   | 35.4%  | 1,051                          | 447                         |
| Private                                                                 | Baylor College of Medicine             | 1,581                          |                              |       | 1,581                   | 100.0% |                                |                             |
| Private                                                                 | Boston University                      | 34,657                         | 18,515                       | 53.4% | 16,142                  | 46.6%  | 3,611                          | 727                         |
| Private                                                                 | Brown University                       | 10,257                         | 7,043                        | 68.7% | 3,214                   | 31.3%  | 1,652                          | 66                          |
| Private                                                                 | California Institute of Technology     | 2,233                          | 948                          | 42.5% | 1,285                   | 57.5%  | 231                            | 2                           |
| Private                                                                 | Carnegie Mellon University             | 14,029                         | 6,589                        | 47.0% | 7,440                   | 53.0%  | 1,572                          | 69                          |
| Private                                                                 | Case Western Reserve University        | 11,890                         | 5,261                        | 44.2% | 6,629                   | 55.8%  | 1,393                          | 33                          |
| Public                                                                  | Clemson University                     | 24,951                         | 19,669                       | 78.8% | 5,282                   | 21.2%  | 3,785                          | 1,475                       |
| Public                                                                  | Cleveland State University             | 16,069                         | 11,999                       | 74.7% | 4,070                   | 25.3%  | 1,946                          | 964                         |
| Private                                                                 | Cold Spring Harbor Laboratory          |                                |                              |       |                         |        |                                |                             |
| Public                                                                  | Colorado State Univ. - Fort Collins    | 33,478                         | 25,962                       | 77.5% | 7,516                   | 22.5%  | 5,180                          | 1,367                       |
| Private                                                                 | Columbia University                    | 31,077                         | 8,216                        | 26.4% | 22,861                  | 73.6%  | 1,447                          | 554                         |
| Private                                                                 | Cornell University                     | 23,600                         | 15,182                       | 64.3% | 8,418                   | 35.7%  | 3,295                          | 644                         |
| Private                                                                 | Dartmouth College                      | 6,572                          | 4,418                        | 67.2% | 2,154                   | 32.8%  | 1,167                          | 8                           |
| Private                                                                 | Drexel University                      | 24,634                         | 15,724                       | 63.8% | 8,910                   | 36.2%  | 3,353                          | 638                         |
| Private                                                                 | Duke University                        | 16,606                         | 6,682                        | 40.2% | 9,924                   | 59.8%  | 1,745                          | 39                          |
| Private                                                                 | Emory University                       | 14,458                         | 7,086                        | 49.0% | 7,372                   | 51.0%  | 1,429                          | 684                         |
| Public                                                                  | Florida International University       | 57,942                         | 48,818                       | 84.3% | 9,124                   | 15.7%  | 3,942                          | 3,472                       |
| Public                                                                  | Florida State University               | 41,005                         | 32,472                       | 79.2% | 8,533                   | 20.8%  | 5,907                          | 1,755                       |
| Public                                                                  | George Mason University                | 37,316                         | 26,192                       | 70.2% | 11,124                  | 29.8%  | 3,664                          | 2,213                       |
| Private                                                                 | George Washington University           | 28,172                         | 12,546                       | 44.5% | 15,626                  | 55.5%  | 2,838                          | 435                         |
| Private                                                                 | Georgetown University                  | 19,204                         | 7,459                        | 38.8% | 11,745                  | 61.2%  | 1,618                          | 98                          |
| Public                                                                  | Georgia Institute of Technology        | 32,723                         | 16,049                       | 49.0% | 16,674                  | 51.0%  | 3,115                          | 621                         |
| Public                                                                  | Georgia State University               | 34,316                         | 27,231                       | 79.4% | 7,085                   | 20.6%  | 4,869                          | 1,383                       |
| Private                                                                 | Harvard University                     | 31,566                         | 9,950                        | 31.5% | 21,616                  | 68.5%  | 1,653                          | 13                          |
| Private                                                                 | Icahn School of Med. at Mount Sinai    | 1,214                          |                              |       | 1,214                   | 100.0% |                                |                             |
| Public                                                                  | Indiana University - Bloomington       | 43,503                         | 33,301                       | 76.5% | 10,202                  | 23.5%  | 8,058                          | 659                         |
| Public                                                                  | Iowa State University                  | 34,992                         | 29,621                       | 84.7% | 5,371                   | 15.3%  | 5,917                          | 1,434                       |
| Private                                                                 | Johns Hopkins University               | 26,152                         | 6,064                        | 23.2% | 20,088                  | 76.8%  | 1,413                          | 72                          |
| Public                                                                  | Kansas State University                | 22,221                         | 17,869                       | 80.4% | 4,352                   | 19.6%  | 3,413                          | 1,031                       |
| Public                                                                  | Louisiana State Univ. - Baton Rouge    | 30,983                         | 25,233                       | 81.4% | 5,750                   | 18.6%  | 5,809                          | 683                         |
| Private                                                                 | Massachusetts Inst. of Technology      | 11,574                         | 4,602                        | 39.8% | 6,972                   | 60.2%  | 1,114                          | 23                          |
| Private                                                                 | Medical College of Wisconsin           | 1,413                          |                              |       | 1,413                   | 100.0% |                                |                             |
| Public                                                                  | Medical University of South Carolina   | 2,944                          | 329                          | 11.2% | 2,615                   | 88.8%  |                                | 134                         |
| Public                                                                  | Michigan State University              | 50,351                         | 39,423                       | 78.3% | 10,928                  | 21.7%  | 8,500                          | 1,454                       |
| Public                                                                  | Mississippi State University           | 21,974                         | 18,490                       | 84.1% | 3,484                   | 15.9%  | 3,550                          | 1,879                       |
| Public                                                                  | Montana State University - Bozeman     | 16,814                         | 14,851                       | 88.3% | 1,963                   | 11.7%  | 2,805                          | 583                         |
| Public                                                                  | Naval Postgraduate School              | 2,737                          |                              |       | 2,737                   | 100.0% |                                |                             |
| Public                                                                  | New Jersey Institute of Technology     | 11,423                         | 8,532                        | 74.7% | 2,891                   | 25.3%  | 1,264                          | 686                         |
| Public                                                                  | New Mexico State Univ. - Las Cruces    | 14,289                         | 11,687                       | 81.8% | 2,602                   | 18.2%  | 2,257                          | 475                         |
| Private                                                                 | New York University                    | 51,847                         | 26,733                       | 51.6% | 25,114                  | 48.4%  | 6,160                          | 793                         |
| Public                                                                  | North Carolina State University        | 35,479                         | 25,199                       | 71.0% | 10,280                  | 29.0%  | 4,939                          | 1,250                       |
| Private                                                                 | Northeastern University                | 21,627                         | 13,909                       | 64.3% | 7,718                   | 35.7%  | 2,746                          | 449                         |
| Private                                                                 | Northwestern University                | 22,127                         | 8,642                        | 39.1% | 13,485                  | 60.9%  | 1,931                          | 160                         |
| Public                                                                  | Ohio State University - Columbus       | 61,170                         | 46,820                       | 76.5% | 14,350                  | 23.5%  | 7,941                          | 2,282                       |
| Public                                                                  | Oklahoma State University - Stillwater | 24,690                         | 20,597                       | 83.4% | 4,093                   | 16.6%  | 3,537                          | 1,152                       |
| Public                                                                  | Oregon Health & Science University     | 2,999                          | 782                          | 26.1% | 2,217                   | 73.9%  |                                | 186                         |

| Fall 2018 Part-Time Enrollment                  |                                                 |                                            | 2018-2019 Degrees Awarded |                    |                  |                   |                      |
|-------------------------------------------------|-------------------------------------------------|--------------------------------------------|---------------------------|--------------------|------------------|-------------------|----------------------|
| Percentage of Total Students Enrolled Part Time | Percentage of Undergraduates Enrolled Part Time | Percentage of Graduates Enrolled Part Time | Associate's Degrees       | Bachelor's Degrees | Master's Degrees | Doctorate Degrees | Professional Degrees |
| 29.5%                                           | 26.5%                                           | 41.9%                                      |                           | 19,370             | 7,149            | 714               | 282                  |
| 15.2%                                           | 8.8%                                            | 42.4%                                      |                           | 5,370              | 1,372            | 244               | 277                  |
| 19.1%                                           | 19.1%                                           | 19.2%                                      | 0                         | 1,061              | 489              | 31                | 412                  |
| 0.3%                                            |                                                 | 0.3%                                       |                           |                    | 74               | 129               | 158                  |
| 18.4%                                           | 6.0%                                            | 32.5%                                      |                           | 4,780              | 5,599            | 491               | 628                  |
| 5.9%                                            | 4.4%                                            | 9.4%                                       |                           | 2,097              | 846              | 225               | 128                  |
|                                                 |                                                 |                                            |                           | 241                | 139              | 207               |                      |
| 6.2%                                            | 3.7%                                            | 8.4%                                       |                           | 1,848              | 3,133            | 322               |                      |
| 10.3%                                           | 3.2%                                            | 16.0%                                      |                           | 1,372              | 1,687            | 207               | 460                  |
| 12.1%                                           | 3.5%                                            | 43.8%                                      |                           | 4,676              | 1,518            | 243               |                      |
| 29.9%                                           | 22.1%                                           | 52.8%                                      |                           | 2,879              | 1,235            | 47                | 128                  |
|                                                 |                                                 |                                            |                           |                    |                  |                   |                      |
| 23.5%                                           | 13.2%                                           | 59.1%                                      |                           | 5,498              | 1,702            | 263               | 142                  |
| 16.1%                                           | 6.7%                                            | 19.5%                                      |                           | 2,702              | 8,862            | 576               | 780                  |
| 0.4%                                            | 0.0%                                            | 1.1%                                       |                           | 4,145              | 2,778            | 531               | 291                  |
| 2.1%                                            | 1.4%                                            | 3.5%                                       |                           | 1,249              | 665              | 100               | 100                  |
| 25.7%                                           | 11.3%                                           | 51.0%                                      |                           | 3,710              | 2,254            | 223               | 457                  |
| 5.5%                                            | 0.3%                                            | 8.9%                                       |                           | 2,303              | 3,222            | 551               | 367                  |
| 10.8%                                           | 1.4%                                            | 19.7%                                      |                           | 2,598              | 1,612            | 246               | 546                  |
| 40.1%                                           | 42.8%                                           | 25.7%                                      | 69                        | 12,352             | 3,207            | 215               | 361                  |
| 15.3%                                           | 10.6%                                           | 33.3%                                      | 187                       | 9,688              | 1,962            | 422               | 308                  |
| 31.1%                                           | 19.0%                                           | 59.6%                                      |                           | 5,866              | 2,969            | 293               | 173                  |
| 32.2%                                           | 9.7%                                            | 50.3%                                      | 197                       | 3,447              | 4,597            | 240               | 834                  |
| 23.2%                                           | 6.3%                                            | 34.0%                                      |                           | 2,169              | 4,204            | 123               | 846                  |
| 36.2%                                           | 10.8%                                           | 60.7%                                      |                           | 3,717              | 3,238            | 526               |                      |
| 23.8%                                           | 22.7%                                           | 28.0%                                      |                           | 5,196              | 1,928            | 273               | 250                  |
| 33.5%                                           | 27.5%                                           | 36.2%                                      | 3                         | 2,902              | 4,925            | 771               | 802                  |
|                                                 |                                                 |                                            |                           |                    | 152              | 32                | 122                  |
| 11.9%                                           | 3.6%                                            | 39.2%                                      | 2                         | 7,952              | 2,768            | 504               | 253                  |
| 10.8%                                           | 5.7%                                            | 38.9%                                      |                           | 7,380              | 1,021            | 416               | 151                  |
| 44.2%                                           | 7.7%                                            | 55.2%                                      |                           | 1,747              | 6,673            | 537               | 146                  |
| 15.2%                                           | 9.2%                                            | 40.1%                                      | 17                        | 4,048              | 1,135            | 207               | 107                  |
| 13.3%                                           | 11.2%                                           | 22.7%                                      |                           | 5,129              | 1,274            | 325               | 257                  |
| 1.5%                                            | 1.0%                                            | 1.8%                                       |                           | 1,333              | 1,850            | 687               |                      |
| 6.2%                                            |                                                 | 6.2%                                       |                           |                    | 61               | 33                | 229                  |
| 6.4%                                            | 1.8%                                            | 6.9%                                       |                           | 223                | 322              | 150               | 309                  |
| 12.9%                                           | 9.3%                                            | 25.7%                                      |                           | 8,997              | 2,204            | 562               | 587                  |
| 14.9%                                           | 8.9%                                            | 46.3%                                      |                           | 3,923              | 751              | 179               | 91                   |
| 22.2%                                           | 15.7%                                           | 71.0%                                      | 106                       | 2,551              | 441              | 74                | 27                   |
| 46.2%                                           |                                                 | 46.2%                                      |                           |                    | 1,198            | 10                |                      |
| 25.0%                                           | 20.0%                                           | 39.6%                                      |                           | 1,646              | 1,103            | 56                |                      |
| 22.1%                                           | 16.9%                                           | 45.4%                                      | 10                        | 2,465              | 687              | 116               | 18                   |
| 16.8%                                           | 3.8%                                            | 30.7%                                      | 83                        | 6,658              | 9,492            | 430               | 1,050                |
| 20.0%                                           | 11.4%                                           | 41.1%                                      | 143                       | 5,953              | 2,762            | 571               | 99                   |
| 3.9%                                            | 0.3%                                            | 10.3%                                      |                           | 4,127              | 2,652            | 200               | 444                  |
| 19.8%                                           | 5.6%                                            | 28.9%                                      |                           | 2,770              | 4,667            | 518               | 544                  |
| 13.1%                                           | 8.5%                                            | 28.2%                                      | 3                         | 11,596             | 2,750            | 886               | 803                  |
| 21.5%                                           | 14.0%                                           | 59.3%                                      |                           | 4,899              | 920              | 231               | 85                   |
| 38.8%                                           | 70.3%                                           | 27.7%                                      |                           | 383                | 352              | 38                | 227                  |

# The Top American Research Universities

| Student Characteristics                                                 |                                         | Fall 2018 Headcount Enrollment |                              |       |                         |        |                                |                             |
|-------------------------------------------------------------------------|-----------------------------------------|--------------------------------|------------------------------|-------|-------------------------|--------|--------------------------------|-----------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                         | Total Student Enrollment       | Total Undergraduate Students | %     | Total Graduate Students | %      | First-time, Full-time Students | Full-time Transfer Students |
| Public                                                                  | Oregon State University                 | 30,986                         | 25,699                       | 82.9% | 5,287                   | 17.1%  | 3,341                          | 1,378                       |
| Public                                                                  | Penn. State Univ. - Hershey Med. Ctr.   | 943                            |                              |       | 943                     | 100.0% |                                |                             |
| Public                                                                  | Pennsylvania State Univ. - Univ. Park   | 46,810                         | 40,363                       | 86.2% | 6,447                   | 13.8%  | 8,055                          | 338                         |
| Private                                                                 | Princeton University                    | 8,374                          | 5,428                        | 64.8% | 2,946                   | 35.2%  | 1,338                          | 9                           |
| Public                                                                  | Purdue University - West Lafayette      | 44,474                         | 33,735                       | 75.9% | 10,739                  | 24.1%  | 8,453                          | 1,004                       |
| Private                                                                 | Rensselaer Polytechnic Institute        | 7,895                          | 6,628                        | 84.0% | 1,267                   | 16.0%  | 1,778                          | 134                         |
| Private                                                                 | Rice University                         | 7,124                          | 3,992                        | 56.0% | 3,132                   | 44.0%  | 956                            | 37                          |
| Private                                                                 | Rockefeller University                  | 239                            |                              |       | 239                     | 100.0% |                                |                             |
| Private                                                                 | Rush University                         | 2,708                          | 121                          | 4.5%  | 2,587                   | 95.5%  |                                | 40                          |
| Public                                                                  | Rutgers University - New Brunswick      | 50,254                         | 36,039                       | 71.7% | 14,215                  | 28.3%  | 7,028                          | 2,451                       |
| Private                                                                 | Scripps Research Institute              |                                |                              |       |                         |        |                                |                             |
| Private                                                                 | Stanford University                     | 17,381                         | 7,087                        | 40.8% | 10,294                  | 59.2%  | 1,696                          | 24                          |
| Public                                                                  | State Univ. of NY - Polytechnic Inst.   | 3,023                          | 2,256                        | 74.6% | 767                     | 25.4%  | 423                            | 260                         |
| Public                                                                  | Stony Brook University                  | 26,256                         | 17,522                       | 66.7% | 8,734                   | 33.3%  | 3,375                          | 1,508                       |
| Public                                                                  | Temple University                       | 39,740                         | 29,484                       | 74.2% | 10,256                  | 25.8%  | 5,009                          | 2,072                       |
| Public                                                                  | Texas A&M Univ. - College Station       | 68,679                         | 53,743                       | 78.3% | 14,936                  | 21.7%  | 10,049                         | 2,481                       |
| Private                                                                 | Thomas Jefferson University             | 7,786                          | 3,550                        | 45.6% | 4,236                   | 54.4%  | 563                            | 533                         |
| Private                                                                 | Tufts University                        | 11,586                         | 5,643                        | 48.7% | 5,943                   | 51.3%  | 1,541                          | 47                          |
| Private                                                                 | Tulane University                       | 12,646                         | 7,920                        | 62.6% | 4,726                   | 37.4%  | 1,909                          | 116                         |
| Public                                                                  | Uniformed Services Univ. of the HS      |                                |                              |       |                         |        |                                |                             |
| Public                                                                  | University at Albany                    | 17,944                         | 13,598                       | 75.8% | 4,346                   | 24.2%  | 2,765                          | 1,344                       |
| Public                                                                  | University at Buffalo                   | 31,503                         | 21,607                       | 68.6% | 9,896                   | 31.4%  | 4,252                          | 1,801                       |
| Public                                                                  | University of Alabama - Birmingham      | 21,923                         | 13,836                       | 63.1% | 8,087                   | 36.9%  | 2,245                          | 896                         |
| Public                                                                  | University of Alabama - Huntsville      | 9,736                          | 7,671                        | 78.8% | 2,065                   | 21.2%  | 1,428                          | 681                         |
| Public                                                                  | University of Alaska - Fairbanks        | 7,404                          | 6,429                        | 86.8% | 975                     | 13.2%  | 584                            | 214                         |
| Public                                                                  | University of Arizona                   | 44,097                         | 34,153                       | 77.4% | 9,944                   | 22.6%  | 6,011                          | 1,693                       |
| Public                                                                  | University of Arkansas - Fayetteville   | 27,778                         | 23,386                       | 84.2% | 4,392                   | 15.8%  | 4,977                          | 1,127                       |
| Public                                                                  | Univ. of Arkansas for Med. Sciences     | 2,758                          | 606                          | 22.0% | 2,152                   | 78.0%  |                                | 263                         |
| Public                                                                  | University of California - Berkeley     | 42,501                         | 30,853                       | 72.6% | 11,648                  | 27.4%  | 5,980                          | 2,258                       |
| Public                                                                  | University of California - Davis        | 38,167                         | 30,718                       | 80.5% | 7,449                   | 19.5%  | 6,296                          | 3,071                       |
| Public                                                                  | University of California - Irvine       | 36,032                         | 29,736                       | 82.5% | 6,296                   | 17.5%  | 5,779                          | 2,620                       |
| Public                                                                  | University of California - Los Angeles  | 44,537                         | 31,577                       | 70.9% | 12,960                  | 29.1%  | 6,233                          | 3,392                       |
| Public                                                                  | University of California - Riverside    | 23,922                         | 20,581                       | 86.0% | 3,341                   | 14.0%  | 4,524                          | 1,879                       |
| Public                                                                  | University of California - San Diego    | 37,887                         | 30,285                       | 79.9% | 7,602                   | 20.1%  | 6,701                          | 3,061                       |
| Public                                                                  | Univ. of California - San Francisco     | 3,114                          |                              |       | 3,114                   | 100.0% |                                |                             |
| Public                                                                  | Univ. of California - Santa Barbara     | 25,976                         | 23,070                       | 88.8% | 2,906                   | 11.2%  | 5,084                          | 2,410                       |
| Public                                                                  | University of California - Santa Cruz   | 19,700                         | 17,792                       | 90.3% | 1,908                   | 9.7%   | 3,682                          | 1,778                       |
| Public                                                                  | University of Central Florida           | 68,475                         | 58,821                       | 85.9% | 9,654                   | 14.1%  | 7,062                          | 4,886                       |
| Private                                                                 | University of Chicago                   | 17,002                         | 6,632                        | 39.0% | 10,370                  | 61.0%  | 1,809                          | 14                          |
| Public                                                                  | University of Cincinnati - Cincinnati   | 37,886                         | 26,762                       | 70.6% | 11,124                  | 29.4%  | 5,291                          | 845                         |
| Public                                                                  | University of Colorado - Boulder        | 36,681                         | 30,159                       | 82.2% | 6,522                   | 17.8%  | 6,613                          | 1,457                       |
| Public                                                                  | U. of Colorado - Denver/Anschutz Med.   | 25,645                         | 16,443                       | 64.1% | 9,202                   | 35.9%  | 1,600                          | 1,416                       |
| Public                                                                  | University of Connecticut - Health Ctr. | 592                            |                              |       | 583                     | 98.5%  |                                |                             |
| Public                                                                  | University of Connecticut - Storrs      | 27,412                         | 19,133                       | 69.8% | 8,279                   | 30.2%  | 3,736                          | 747                         |
| Private                                                                 | University of Dayton                    | 11,241                         | 8,617                        | 76.7% | 2,624                   | 23.3%  | 2,198                          | 111                         |
| Public                                                                  | University of Delaware                  | 24,120                         | 19,956                       | 82.7% | 4,164                   | 17.3%  | 4,694                          | 473                         |
| Public                                                                  | University of Florida                   | 52,218                         | 35,491                       | 68.0% | 16,727                  | 32.0%  | 6,758                          | 1,771                       |
| Public                                                                  | University of Georgia                   | 38,652                         | 29,611                       | 76.6% | 9,041                   | 23.4%  | 5,703                          | 1,702                       |
| Public                                                                  | University of Hawaii - Manoa            | 17,710                         | 12,968                       | 73.2% | 4,742                   | 26.8%  | 2,114                          | 1,188                       |

| Fall 2018 Part-Time Enrollment                  |                                                  |                                            | 2018-2019 Degrees Awarded |                    |                  |                   |                      |
|-------------------------------------------------|--------------------------------------------------|--------------------------------------------|---------------------------|--------------------|------------------|-------------------|----------------------|
| Percentage of Total Students Enrolled Part Time | Percentage of Under-graduates Enrolled Part Time | Percentage of Graduates Enrolled Part Time | Associate's Degrees       | Bachelor's Degrees | Master's Degrees | Doctorate Degrees | Professional Degrees |
| 28.6%                                           | 27.7%                                            | 33.0%                                      |                           | 5,981              | 940              | 296               | 152                  |
| 3.5%                                            |                                                  | 3.5%                                       |                           |                    | 66               | 24                | 139                  |
| 3.6%                                            | 2.6%                                             | 9.7%                                       | 2                         | 10,893             | 1,409            | 632               | 142                  |
| 1.3%                                            | 2.0%                                             |                                            |                           | 1,297              | 640              | 398               |                      |
| 13.7%                                           | 5.6%                                             | 39.0%                                      | 48                        | 7,568              | 2,291            | 730               | 249                  |
| 1.2%                                            | 0.3%                                             | 6.0%                                       |                           | 1,359              | 368              | 148               |                      |
| 5.0%                                            | 2.3%                                             | 8.5%                                       |                           | 1,228              | 898              | 233               |                      |
|                                                 |                                                  |                                            |                           |                    | 9                | 30                |                      |
| 38.7%                                           | 37.2%                                            | 38.8%                                      |                           | 43                 | 435              | 17                | 333                  |
| 14.9%                                           | 5.5%                                             | 38.8%                                      | 32                        | 8,719              | 3,129            | 744               | 698                  |
|                                                 |                                                  |                                            |                           |                    |                  |                   |                      |
| 6.0%                                            |                                                  | 10.2%                                      |                           | 1,892              | 2,388            | 770               | 270                  |
| 29.0%                                           | 14.9%                                            | 70.7%                                      |                           | 526                | 214              | 7                 |                      |
| 17.3%                                           | 6.7%                                             | 38.6%                                      |                           | 4,945              | 2,550            | 367               | 271                  |
| 13.5%                                           | 9.2%                                             | 25.9%                                      | 0                         | 6,523              | 1,997            | 250               | 874                  |
| 13.8%                                           | 11.8%                                            | 20.9%                                      |                           | 13,198             | 3,476            | 774               | 667                  |
| 26.1%                                           | 17.2%                                            | 33.6%                                      | 54                        | 1,048              | 1,012            | 31                | 478                  |
| 7.5%                                            | 2.4%                                             | 12.3%                                      |                           | 1,822              | 1,281            | 141               | 516                  |
| 16.9%                                           | 12.9%                                            | 23.6%                                      | 52                        | 2,417              | 1,801            | 125               | 348                  |
|                                                 |                                                  |                                            |                           |                    |                  |                   |                      |
| 16.1%                                           | 5.1%                                             | 50.4%                                      |                           | 3,525              | 1,258            | 129               | 5                    |
| 16.0%                                           | 7.7%                                             | 34.0%                                      | 0                         | 5,273              | 2,250            | 387               | 651                  |
| 35.1%                                           | 27.4%                                            | 48.3%                                      |                           | 2,613              | 2,207            | 146               | 412                  |
| 26.8%                                           | 16.7%                                            | 64.6%                                      |                           | 1,348              | 528              | 38                | 34                   |
| 56.3%                                           | 56.7%                                            | 53.4%                                      | 253                       | 602                | 210              | 37                |                      |
| 17.9%                                           | 15.0%                                            | 27.7%                                      |                           | 8,231              | 2,083            | 448               | 533                  |
| 18.6%                                           | 10.2%                                            | 63.6%                                      |                           | 5,181              | 1,102            | 209               | 122                  |
| 22.2%                                           | 17.2%                                            | 23.7%                                      | 56                        | 245                | 224              | 27                | 300                  |
| 7.3%                                            | 4.2%                                             | 15.7%                                      |                           | 9,627              | 3,287            | 881               | 395                  |
| 3.3%                                            | 2.4%                                             | 6.7%                                       |                           | 8,711              | 1,297            | 546               | 383                  |
| 2.3%                                            | 1.6%                                             | 5.5%                                       |                           | 8,394              | 1,618            | 407               | 250                  |
| 3.7%                                            | 1.8%                                             | 8.3%                                       |                           | 9,069              | 3,534            | 733               | 574                  |
| 2.6%                                            | 1.8%                                             | 7.5%                                       |                           | 4,649              | 707              | 293               | 39                   |
| 3.4%                                            | 2.6%                                             | 6.6%                                       |                           | 8,037              | 1,965            | 528               | 183                  |
| 1.0%                                            |                                                  | 1.0%                                       |                           |                    | 301              | 131               | 432                  |
| 2.5%                                            | 2.0%                                             | 6.4%                                       |                           | 6,327              | 541              | 327               |                      |
| 3.1%                                            | 3.0%                                             | 3.7%                                       |                           | 4,713              | 430              | 192               |                      |
| 32.0%                                           | 28.8%                                            | 51.1%                                      | 343                       | 14,087             | 2,446            | 251               | 164                  |
| 12.0%                                           | 0.5%                                             | 19.3%                                      |                           | 2,024              | 3,167            | 423               | 283                  |
| 24.4%                                           | 14.1%                                            | 49.1%                                      | 45                        | 6,175              | 3,029            | 250               | 537                  |
| 16.2%                                           | 7.0%                                             | 58.7%                                      |                           | 6,744              | 1,614            | 409               | 164                  |
| 48.6%                                           | 45.4%                                            | 54.3%                                      |                           | 2,684              | 2,066            | 206               | 526                  |
|                                                 |                                                  |                                            |                           |                    |                  | 30                |                      |
| 11.8%                                           | 3.4%                                             | 31.1%                                      | 16                        | 6,052              | 1,948            | 334               | 386                  |
| 10.7%                                           | 5.3%                                             | 28.5%                                      |                           | 2,167              | 730              | 46                | 119                  |
| 10.0%                                           | 8.0%                                             | 19.7%                                      | 271                       | 4,849              | 1,042            | 263               | 54                   |
| 15.5%                                           | 9.2%                                             | 28.7%                                      | 180                       | 9,663              | 3,788            | 750               | 1,215                |
| 9.6%                                            | 5.6%                                             | 22.8%                                      |                           | 8,022              | 1,878            | 488               | 429                  |
| 24.7%                                           | 17.2%                                            | 45.4%                                      |                           | 3,245              | 833              | 206               | 187                  |

## The Top American Research Universities

| Student Characteristics                                                 |                                       | Fall 2018 Headcount Enrollment |                              |       |                         |        |                                |                             |
|-------------------------------------------------------------------------|---------------------------------------|--------------------------------|------------------------------|-------|-------------------------|--------|--------------------------------|-----------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | Total Student Enrollment       | Total Undergraduate Students | %     | Total Graduate Students | %      | First-time, Full-time Students | Full-time Transfer Students |
| Public                                                                  | University of Houston - Univ. Park    | 46,324                         | 38,348                       | 82.8% | 7,976                   | 17.2%  | 4,919                          | 3,419                       |
| Public                                                                  | University of Idaho                   | 11,841                         | 9,568                        | 80.8% | 2,273                   | 19.2%  | 1,406                          | 465                         |
| Public                                                                  | University of Illinois - Chicago      | 31,683                         | 20,783                       | 65.6% | 10,900                  | 34.4%  | 4,109                          | 1,839                       |
| Public                                                                  | Univ. of Illinois - Urbana-Champaign  | 49,702                         | 33,915                       | 68.2% | 15,787                  | 31.8%  | 7,600                          | 1,232                       |
| Public                                                                  | University of Iowa                    | 31,656                         | 23,989                       | 75.8% | 7,667                   | 24.2%  | 4,726                          | 990                         |
| Public                                                                  | University of Kansas - Lawrence       | 27,690                         | 19,596                       | 70.8% | 8,094                   | 29.2%  | 4,097                          | 1,023                       |
| Public                                                                  | University of Kansas Medical Center   | 3,956                          | 532                          | 13.4% | 3,553                   | 89.8%  | 471                            | 28                          |
| Public                                                                  | University of Kentucky                | 29,182                         | 22,136                       | 75.9% | 7,046                   | 24.1%  | 4,980                          | 719                         |
| Public                                                                  | University of Louisville              | 21,430                         | 15,641                       | 73.0% | 5,789                   | 27.0%  | 2,731                          | 708                         |
| Public                                                                  | University of Maine - Orono           | 11,404                         | 9,365                        | 82.1% | 2,039                   | 17.9%  | 2,232                          | 321                         |
| Public                                                                  | University of Maryland - Baltimore    | 6,777                          | 909                          | 13.4% | 5,868                   | 86.6%  |                                | 193                         |
| Public                                                                  | Univ. of Maryland - Baltimore County  | 13,767                         | 11,260                       | 81.8% | 2,507                   | 18.2%  | 1,777                          | 971                         |
| Public                                                                  | University of Maryland - College Park | 41,200                         | 30,762                       | 74.7% | 10,438                  | 25.3%  | 6,052                          | 1,889                       |
| Public                                                                  | Univ. of Massachusetts - Amherst      | 30,593                         | 23,515                       | 76.9% | 7,078                   | 23.1%  | 5,030                          | 1,255                       |
| Public                                                                  | Univ. of Mass. Med. Sch. - Worcester  | 1,185                          |                              |       | 1,185                   | 100.0% |                                |                             |
| Private                                                                 | University of Miami                   | 17,331                         | 11,117                       | 64.1% | 6,214                   | 35.9%  | 2,342                          | 567                         |
| Public                                                                  | University of Michigan - Ann Arbor    | 46,716                         | 30,318                       | 64.9% | 16,398                  | 35.1%  | 6,664                          | 1,211                       |
| Public                                                                  | University of Minnesota - Twin Cities | 50,734                         | 34,437                       | 67.9% | 16,297                  | 32.1%  | 5,962                          | 2,182                       |
| Public                                                                  | University of Missouri - Columbia     | 29,843                         | 22,484                       | 75.3% | 7,359                   | 24.7%  | 4,615                          | 847                         |
| Public                                                                  | University of Montana - Missoula      | 10,962                         | 8,306                        | 75.8% | 2,656                   | 24.2%  | 1,372                          | 451                         |
| Public                                                                  | University of Nebraska - Lincoln      | 25,820                         | 20,830                       | 80.7% | 4,990                   | 19.3%  | 4,802                          | 758                         |
| Public                                                                  | University of Nebraska Medical Ctr.   | 3,972                          | 869                          | 21.9% | 3,103                   | 78.1%  |                                | 355                         |
| Public                                                                  | University of Nevada - Reno           | 21,463                         | 17,930                       | 83.5% | 3,533                   | 16.5%  | 3,651                          | 900                         |
| Public                                                                  | Univ. of New Hampshire - Durham       | 15,298                         | 12,815                       | 83.8% | 2,483                   | 16.2%  | 3,031                          | 449                         |
| Public                                                                  | Univ. of New Mexico - Albuquerque     | 24,319                         | 18,621                       | 76.6% | 5,698                   | 23.4%  | 2,596                          | 687                         |
| Public                                                                  | Univ. of North Carolina - Chapel Hill | 30,011                         | 19,117                       | 63.7% | 10,894                  | 36.3%  | 4,318                          | 805                         |
| Public                                                                  | University of North Dakota            | 13,847                         | 10,519                       | 76.0% | 3,328                   | 24.0%  | 1,809                          | 564                         |
| Private                                                                 | University of Notre Dame              | 12,607                         | 8,617                        | 68.4% | 3,990                   | 31.6%  | 2,070                          | 169                         |
| Public                                                                  | University of Oklahoma - HSC          | 3,126                          | 760                          | 24.3% | 2,366                   | 75.7%  |                                | 392                         |
| Public                                                                  | University of Oklahoma - Norman       | 28,564                         | 22,152                       | 77.6% | 6,412                   | 22.4%  | 3,831                          | 823                         |
| Public                                                                  | University of Oregon                  | 22,644                         | 19,101                       | 84.4% | 3,543                   | 15.6%  | 4,107                          | 963                         |
| Private                                                                 | University of Pennsylvania            | 25,860                         | 11,851                       | 45.8% | 14,009                  | 54.2%  | 2,457                          | 131                         |
| Public                                                                  | University of Pittsburgh - Pittsburgh | 28,673                         | 19,330                       | 67.4% | 9,343                   | 32.6%  | 4,126                          | 866                         |
| Public                                                                  | University of Rhode Island            | 17,777                         | 14,778                       | 83.1% | 2,999                   | 16.9%  | 3,039                          | 457                         |
| Private                                                                 | University of Rochester               | 11,817                         | 6,535                        | 55.3% | 5,282                   | 44.7%  | 1,522                          | 94                          |
| Public                                                                  | Univ. of South Carolina - Columbia    | 34,795                         | 26,733                       | 76.8% | 8,062                   | 23.2%  | 5,849                          | 1,817                       |
| Public                                                                  | University of South Florida - Tampa   | 43,846                         | 32,240                       | 73.5% | 11,606                  | 26.5%  | 4,334                          | 2,693                       |
| Private                                                                 | University of Southern California     | 47,310                         | 19,907                       | 42.1% | 27,403                  | 57.9%  | 3,399                          | 1,442                       |
| Public                                                                  | University of Tennessee - Knoxville   | 28,894                         | 22,815                       | 79.0% | 6,079                   | 21.0%  | 5,205                          | 1,219                       |
| Public                                                                  | University of Texas - Austin          | 51,832                         | 40,804                       | 78.7% | 11,028                  | 21.3%  | 8,817                          | 1,451                       |
| Public                                                                  | University of Texas - El Paso         | 25,151                         | 21,464                       | 85.3% | 3,687                   | 14.7%  | 2,896                          | 1,079                       |
| Public                                                                  | University of Texas HSC - Houston     | 5,335                          | 717                          | 13.4% | 4,618                   | 86.6%  |                                | 89                          |
| Public                                                                  | Univ. of Texas HSC - San Antonio      | 3,292                          | 774                          | 23.5% | 2,518                   | 76.5%  |                                | 187                         |
| Public                                                                  | U. of Texas MD Anderson Cancer Ctr.   | 376                            | 356                          | 94.7% | 20                      | 5.3%   |                                | 91                          |
| Public                                                                  | U. of Texas Med. Branch - Galveston   | 3,343                          | 753                          | 22.5% | 2,590                   | 77.5%  |                                | 348                         |
| Public                                                                  | Univ. of Texas SW Med. Ctr. - Dallas  | 2,266                          |                              |       | 2,266                   | 100.0% |                                |                             |
| Public                                                                  | University of Utah                    | 33,023                         | 24,743                       | 74.9% | 8,280                   | 25.1%  | 3,987                          | 1,183                       |
| Public                                                                  | University of Vermont                 | 13,395                         | 11,328                       | 84.6% | 2,067                   | 15.4%  | 2,512                          | 425                         |
| Public                                                                  | University of Virginia                | 24,639                         | 16,777                       | 68.1% | 7,862                   | 31.9%  | 3,822                          | 626                         |

| Fall 2018 Part-Time Enrollment                  |                                                 |                                            | 2018-2019 Degrees Awarded |                    |                  |                   |                      |
|-------------------------------------------------|-------------------------------------------------|--------------------------------------------|---------------------------|--------------------|------------------|-------------------|----------------------|
| Percentage of Total Students Enrolled Part Time | Percentage of Undergraduates Enrolled Part Time | Percentage of Graduates Enrolled Part Time | Associate's Degrees       | Bachelor's Degrees | Master's Degrees | Doctorate Degrees | Professional Degrees |
| 27.5%                                           | 26.9%                                           | 30.1%                                      |                           | 7,631              | 1,929            | 346               | 482                  |
| 28.8%                                           | 27.0%                                           | 36.1%                                      |                           | 1,848              | 490              | 54                | 107                  |
| 14.4%                                           | 7.4%                                            | 27.9%                                      |                           | 4,524              | 2,460            | 343               | 754                  |
| 12.9%                                           | 3.4%                                            | 33.1%                                      |                           | 8,983              | 3,991            | 814               | 256                  |
| 16.5%                                           | 9.6%                                            | 38.2%                                      |                           | 5,811              | 1,324            | 418               | 467                  |
| 16.8%                                           | 11.5%                                           | 29.7%                                      |                           | 4,536              | 1,697            | 317               | 572                  |
| 49.8%                                           | 0.0%                                            | 0.0%                                       |                           |                    |                  | 39                |                      |
| 10.4%                                           | 7.5%                                            | 19.5%                                      |                           | 5,535              | 1,253            | 337               | 622                  |
| 25.6%                                           | 23.7%                                           | 30.8%                                      | 10                        | 3,155              | 1,417            | 165               | 383                  |
| 21.7%                                           | 12.9%                                           | 62.2%                                      |                           | 1,739              | 353              | 69                |                      |
| 23.2%                                           | 22.8%                                           | 23.3%                                      |                           | 438                | 894              | 73                | 825                  |
| 21.3%                                           | 14.5%                                           | 51.9%                                      |                           | 2,722              | 624              | 81                |                      |
| 11.2%                                           | 7.3%                                            | 22.4%                                      |                           | 8,390              | 2,782            | 612               | 35                   |
| 20.4%                                           | 7.4%                                            | 63.8%                                      | 43                        | 6,878              | 1,701            | 350               | 39                   |
| 5.9%                                            |                                                 | 5.9%                                       |                           |                    | 34               | 52                | 156                  |
| 8.2%                                            | 5.7%                                            | 12.8%                                      |                           | 3,118              | 1,705            | 195               | 610                  |
| 5.1%                                            | 3.5%                                            | 7.9%                                       |                           | 7,815              | 4,752            | 827               | 706                  |
| 21.6%                                           | 12.9%                                           | 40.1%                                      |                           | 8,988              | 3,388            | 751               | 997                  |
| 15.3%                                           | 7.8%                                            | 38.2%                                      |                           | 6,314              | 1,473            | 426               | 357                  |
| 27.3%                                           | 18.7%                                           | 54.2%                                      | 338                       | 1,614              | 527              | 51                | 365                  |
| 14.1%                                           | 6.5%                                            | 45.4%                                      | 0                         | 4,859              | 952              | 316               | 136                  |
| 13.5%                                           | 18.6%                                           | 12.1%                                      |                           | 454                | 239              | 74                | 293                  |
| 21.9%                                           | 15.2%                                           | 55.6%                                      |                           | 4,101              | 726              | 123               | 63                   |
| 9.2%                                            | 2.5%                                            | 43.5%                                      | 71                        | 3,550              | 753              | 77                | 18                   |
| 30.5%                                           | 26.8%                                           | 42.6%                                      |                           | 4,321              | 1,200            | 220               | 320                  |
| 16.0%                                           | 3.1%                                            | 38.6%                                      |                           | 6,076              | 2,403            | 514               | 665                  |
| 28.3%                                           | 22.2%                                           | 47.4%                                      |                           | 2,231              | 819              | 83                | 231                  |
| 2.3%                                            | 0.1%                                            | 6.9%                                       |                           | 2,642              | 1,129            | 242               | 192                  |
| 13.1%                                           | 5.4%                                            | 15.6%                                      |                           | 428                | 254              | 19                | 383                  |
| 22.8%                                           | 13.9%                                           | 53.3%                                      |                           | 4,805              | 1,924            | 233               | 179                  |
| 8.6%                                            | 8.1%                                            | 11.0%                                      |                           | 5,139              | 969              | 183               | 101                  |
| 15.1%                                           | 10.5%                                           | 18.9%                                      | 0                         | 3,632              | 4,771            | 548               | 668                  |
| 9.7%                                            | 4.7%                                            | 19.9%                                      | 30                        | 5,451              | 2,137            | 391               | 606                  |
| 19.4%                                           | 15.5%                                           | 38.8%                                      |                           | 3,624              | 599              | 106               | 110                  |
| 15.9%                                           | 3.7%                                            | 31.0%                                      |                           | 1,921              | 1,369            | 253               | 100                  |
| 10.1%                                           | 4.1%                                            | 30.1%                                      | 0                         | 6,966              | 1,750            | 431               | 488                  |
| 28.1%                                           | 23.0%                                           | 42.2%                                      | 362                       | 8,684              | 3,266            | 373               | 379                  |
| 13.4%                                           | 3.6%                                            | 20.6%                                      |                           | 5,337              | 9,216            | 917               | 936                  |
| 12.6%                                           | 5.8%                                            | 38.0%                                      |                           | 5,103              | 1,496            | 383               | 197                  |
| 6.3%                                            | 6.6%                                            | 5.3%                                       |                           | 10,098             | 2,997            | 873               | 429                  |
| 38.6%                                           | 34.6%                                           | 62.4%                                      |                           | 3,846              | 1,257            | 101               | 31                   |
| 36.9%                                           | 18.8%                                           | 39.7%                                      |                           | 478                | 723              | 211               | 343                  |
| 14.3%                                           | 13.2%                                           | 14.7%                                      |                           | 370                | 269              | 42                | 347                  |
| 19.9%                                           | 18.5%                                           | 45.0%                                      |                           | 142                | 31               |                   |                      |
| 28.9%                                           | 15.1%                                           | 32.9%                                      |                           | 479                | 385              | 37                | 332                  |
| 27.1%                                           |                                                 | 27.1%                                      |                           |                    | 88               | 99                | 201                  |
| 24.7%                                           | 25.2%                                           | 23.1%                                      |                           | 5,236              | 2,197            | 376               | 459                  |
| 10.9%                                           | 7.9%                                            | 27.1%                                      |                           | 2,682              | 565              | 100               | 162                  |
| 8.6%                                            | 4.7%                                            | 17.1%                                      |                           | 5,167              | 2,085            | 343               | 431                  |

| Student Characteristics                                                 |                                       | Fall 2018 Headcount Enrollment |                              |       |                         |        |                                |                             |
|-------------------------------------------------------------------------|---------------------------------------|--------------------------------|------------------------------|-------|-------------------------|--------|--------------------------------|-----------------------------|
| Institutions with Over \$40 Million in Federal Research, Alphabetically |                                       | Total Student Enrollment       | Total Undergraduate Students | %     | Total Graduate Students | %      | First-time, Full-time Students | Full-time Transfer Students |
| Public                                                                  | University of Washington - Seattle    | 47,400                         | 32,099                       | 67.7% | 15,301                  | 32.3%  | 7,096                          | 1,455                       |
| Public                                                                  | University of Wisconsin - Madison     | 43,463                         | 31,705                       | 72.9% | 11,758                  | 27.1%  | 6,851                          | 1,104                       |
| Public                                                                  | University of Wyoming                 | 12,450                         | 9,998                        | 80.3% | 2,452                   | 19.7%  | 1,849                          | 809                         |
| Public                                                                  | Utah State University                 | 27,932                         | 24,880                       | 89.1% | 3,052                   | 10.9%  | 4,086                          | 978                         |
| Private                                                                 | Vanderbilt University                 | 12,824                         | 6,861                        | 53.5% | 5,963                   | 46.5%  | 1,601                          | 220                         |
| Public                                                                  | Virginia Commonwealth University      | 30,697                         | 23,693                       | 77.2% | 7,004                   | 22.8%  | 4,517                          | 1,451                       |
| Public                                                                  | Virginia Polytechnic Inst. and St. U. | 34,683                         | 27,811                       | 80.2% | 6,872                   | 19.8%  | 6,254                          | 1,018                       |
| Private                                                                 | Wake Forest University                | 8,401                          | 5,225                        | 62.2% | 3,176                   | 37.8%  | 1,420                          | 13                          |
| Public                                                                  | Washington State Univ. - Pullman      | 31,478                         | 26,098                       | 82.9% | 5,380                   | 17.1%  | 5,048                          | 2,213                       |
| Private                                                                 | Washington University in St. Louis    | 15,852                         | 7,751                        | 48.9% | 8,101                   | 51.1%  | 1,785                          | 94                          |
| Public                                                                  | Wayne State University                | 27,025                         | 17,574                       | 65.0% | 9,451                   | 35.0%  | 2,957                          | 1,281                       |
| Private                                                                 | Weill Cornell Medical College         | 1,248                          |                              |       | 1,248                   | 100.0% |                                |                             |
| Public                                                                  | West Virginia University              | 26,864                         | 21,155                       | 78.7% | 5,709                   | 21.3%  | 4,714                          | 637                         |
| Private                                                                 | Woods Hole Oceanographic Inst.        |                                |                              |       |                         |        |                                |                             |
| Public                                                                  | Wright State University - Dayton      | 14,403                         | 10,925                       | 75.9% | 3,478                   | 24.1%  | 1,854                          | 612                         |
| Private                                                                 | Yale University                       | 13,433                         | 5,964                        | 44.4% | 7,469                   | 55.6%  | 1,573                          | 16                          |
| Private                                                                 | Yeshiva University                    | 6,479                          | 2,728                        | 42.1% | 3,751                   | 57.9%  | 553                            | 15                          |

| Fall 2018 Part-Time Enrollment                  |                                                  |                                            | 2018-2019 Degrees Awarded |                    |                  |                   |                      |
|-------------------------------------------------|--------------------------------------------------|--------------------------------------------|---------------------------|--------------------|------------------|-------------------|----------------------|
| Percentage of Total Students Enrolled Part Time | Percentage of Under-graduates Enrolled Part Time | Percentage of Graduates Enrolled Part Time | Associate's Degrees       | Bachelor's Degrees | Master's Degrees | Doctorate Degrees | Professional Degrees |
| 11.7%                                           | 8.1%                                             | 19.1%                                      |                           | 9,269              | 4,081            | 729               | 565                  |
| 10.2%                                           | 7.3%                                             | 17.8%                                      |                           | 8,915              | 2,338            | 829               | 717                  |
| 20.0%                                           | 15.4%                                            | 38.9%                                      |                           | 2,387              | 501              | 106               | 132                  |
| 33.8%                                           | 30.1%                                            | 64.1%                                      | 1,100                     | 4,531              | 839              | 113               | 5                    |
| 7.5%                                            | 1.0%                                             | 14.9%                                      |                           | 2,280              | 1,481            | 319               | 395                  |
| 17.6%                                           | 14.7%                                            | 27.3%                                      |                           | 5,372              | 1,392            | 353               | 435                  |
| 7.8%                                            | 2.3%                                             | 30.3%                                      | 54                        | 7,156              | 1,501            | 469               | 160                  |
| 6.2%                                            | 1.0%                                             | 14.7%                                      |                           | 1,431              | 937              | 54                | 284                  |
| 15.2%                                           | 12.3%                                            | 29.3%                                      |                           | 5,827              | 923              | 312               | 273                  |
| 13.1%                                           | 7.8%                                             | 18.2%                                      | 13                        | 2,407              | 2,197            | 302               | 484                  |
| 30.6%                                           | 26.3%                                            | 38.7%                                      |                           | 3,652              | 2,148            | 216               | 560                  |
|                                                 |                                                  |                                            |                           |                    | 146              | 77                | 95                   |
| 11.2%                                           | 7.5%                                             | 25.1%                                      |                           | 4,561              | 1,476            | 194               | 373                  |
|                                                 |                                                  |                                            |                           |                    |                  |                   |                      |
| 32.2%                                           | 22.7%                                            | 62.2%                                      |                           | 2,315              | 1,108            | 39                | 141                  |
| 1.0%                                            | 0.4%                                             | 1.4%                                       |                           | 1,664              | 2,568            | 430               | 305                  |
| 17.0%                                           | 3.5%                                             | 26.8%                                      | 507                       | 587                | 400              | 91                | 287                  |

### The Center Measures - National Rankings

| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                          | 2020<br>No. of Measures<br>in Top 25<br>Nationally | 2020<br>No. of Measures<br>in Top 26-50<br>Nationally | 2019<br>No. of Measures<br>in Top 25<br>Nationally | 2019<br>No. of Measures<br>in Top 26-50<br>Nationally |
|----------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| Public                                                                     | Arizona State University                 | 2                                                  | 3                                                     | 1                                                  | 3                                                     |
| Public                                                                     | Auburn University                        | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Augusta University                       | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Baylor College of Medicine               | 0                                                  | 3                                                     | 0                                                  | 3                                                     |
| Private                                                                    | Boston University                        | 0                                                  | 6                                                     | 0                                                  | 4                                                     |
| Private                                                                    | Brown University                         | 1                                                  | 4                                                     | 1                                                  | 3                                                     |
| Private                                                                    | California Institute of Technology       | 2                                                  | 4                                                     | 2                                                  | 5                                                     |
| Private                                                                    | Carnegie Mellon University               | 1                                                  | 2                                                     | 1                                                  | 3                                                     |
| Private                                                                    | Case Western Reserve University          | 0                                                  | 2                                                     | 0                                                  | 2                                                     |
| Public                                                                     | Clemson University                       | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Cleveland State University               | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Cold Spring Harbor Laboratory            | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Colorado State University - Fort Collins | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Columbia University                      | 9                                                  | 0                                                     | 9                                                  | 0                                                     |
| Private                                                                    | Cornell University                       | 5                                                  | 4                                                     | 4                                                  | 5                                                     |
| Private                                                                    | Dartmouth College                        | 2                                                  | 1                                                     | 2                                                  | 1                                                     |
| Private                                                                    | Drexel University                        | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Duke University                          | 8                                                  | 1                                                     | 7                                                  | 2                                                     |
| Private                                                                    | Emory University                         | 2                                                  | 6                                                     | 2                                                  | 6                                                     |
| Public                                                                     | Florida International University         | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Florida State University                 | 0                                                  | 1                                                     | 0                                                  | 2                                                     |
| Public                                                                     | George Mason University                  | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | George Washington University             | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Georgetown University                    | 0                                                  | 2                                                     | 0                                                  | 1                                                     |
| Public                                                                     | Georgia Institute of Technology          | 3                                                  | 5                                                     | 3                                                  | 4                                                     |
| Public                                                                     | Georgia State University                 | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Harvard University                       | 9                                                  | 0                                                     | 9                                                  | 0                                                     |
| Private                                                                    | Icahn School of Medicine at Mount Sinai  | 2                                                  | 2                                                     | 1                                                  | 3                                                     |
| Public                                                                     | Indiana University - Bloomington         | 0                                                  | 4                                                     | 0                                                  | 5                                                     |
| Public                                                                     | Iowa State University                    | 0                                                  | 1                                                     | 0                                                  | 2                                                     |
| Private                                                                    | Johns Hopkins University                 | 8                                                  | 1                                                     | 8                                                  | 1                                                     |
| Public                                                                     | Kansas State University                  | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Louisiana State University - Baton Rouge | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Massachusetts Institute of Technology    | 9                                                  | 0                                                     | 9                                                  | 0                                                     |
| Private                                                                    | Medical College of Wisconsin             | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Medical University of South Carolina     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Michigan State University                | 1                                                  | 6                                                     | 0                                                  | 7                                                     |
| Public                                                                     | Mississippi State University             | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Montana State University - Bozeman       | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Naval Postgraduate School                | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | New Jersey Institute of Technology       | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | New Mexico State University - Las Cruces | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | New York University                      | 5                                                  | 3                                                     | 5                                                  | 3                                                     |
| Public                                                                     | North Carolina State University          | 1                                                  | 4                                                     | 0                                                  | 5                                                     |
| Private                                                                    | Northeastern University                  | 0                                                  | 1                                                     | 1                                                  | 1                                                     |
| Private                                                                    | Northwestern University                  | 7                                                  | 2                                                     | 6                                                  | 3                                                     |
| Public                                                                     | Ohio State University - Columbus         | 6                                                  | 1                                                     | 7                                                  | 1                                                     |
| Public                                                                     | Oklahoma State University - Stillwater   | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Oregon Health & Science University       | 0                                                  | 1                                                     | 0                                                  | 1                                                     |

| 2018<br>No. of Measures<br>in Top 25<br>Nationally | 2018<br>No. of Measures<br>in Top 26-50<br>Nationally | 2017<br>No. of Measures<br>in Top 25<br>Nationally | 2017<br>No. of Measures<br>in Top 26-50<br>Nationally | 2016<br>No. of Measures<br>in Top 25<br>Nationally | 2016<br>No. of Measures<br>in Top 26-50<br>Nationally | 2015<br>No. of Measures<br>in Top 25<br>Nationally | 2015<br>No. of Measures<br>in Top 26-50<br>Nationally |
|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| 2                                                  | 2                                                     | 2                                                  | 0                                                     | 2                                                  | 0                                                     | 1                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 4                                                     | 0                                                  | 4                                                     | 0                                                  | 4                                                     | 0                                                  | 4                                                     |
| 0                                                  | 5                                                     | 1                                                  | 3                                                     | 0                                                  | 4                                                     | 0                                                  | 4                                                     |
| 1                                                  | 3                                                     | 1                                                  | 3                                                     | 1                                                  | 3                                                     | 1                                                  | 3                                                     |
| 2                                                  | 5                                                     | 2                                                  | 4                                                     | 2                                                  | 5                                                     | 2                                                  | 4                                                     |
| 1                                                  | 2                                                     | 1                                                  | 3                                                     | 1                                                  | 1                                                     | 1                                                  | 2                                                     |
| 1                                                  | 1                                                     | 0                                                  | 3                                                     | 0                                                  | 3                                                     | 0                                                  | 4                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     |
| 9                                                  | 0                                                     | 9                                                  | 0                                                     | 9                                                  | 0                                                     | 9                                                  | 0                                                     |
| 3                                                  | 6                                                     | 2                                                  | 7                                                     | 3                                                  | 6                                                     | 3                                                  | 5                                                     |
| 1                                                  | 2                                                     | 2                                                  | 1                                                     | 2                                                  | 1                                                     | 2                                                  | 1                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 8                                                  | 1                                                     | 7                                                  | 2                                                     | 8                                                  | 1                                                     | 9                                                  | 0                                                     |
| 2                                                  | 5                                                     | 3                                                  | 5                                                     | 2                                                  | 6                                                     | 3                                                  | 5                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     | 0                                                  | 0                                                     |
| 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 2                                                     | 0                                                  | 1                                                     |
| 2                                                  | 5                                                     | 2                                                  | 5                                                     | 2                                                  | 5                                                     | 3                                                  | 5                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 9                                                  | 0                                                     | 9                                                  | 0                                                     | 9                                                  | 0                                                     | 9                                                  | 0                                                     |
| 1                                                  | 2                                                     | 1                                                  | 2                                                     | 1                                                  | 2                                                     | 0                                                  | 4                                                     |
| 0                                                  | 5                                                     | 0                                                  | 5                                                     | 0                                                  | 3                                                     | 0                                                  | 3                                                     |
| 0                                                  | 2                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 7                                                  | 2                                                     | 7                                                  | 2                                                     | 6                                                  | 3                                                     | 6                                                  | 3                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 9                                                  | 0                                                     | 9                                                  | 0                                                     | 9                                                  | 0                                                     | 9                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 7                                                     | 0                                                  | 7                                                     | 1                                                  | 4                                                     | 1                                                  | 4                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 4                                                  | 4                                                     | 3                                                  | 5                                                     | 3                                                  | 5                                                     | 3                                                  | 5                                                     |
| 0                                                  | 4                                                     | 0                                                  | 4                                                     | 0                                                  | 3                                                     | 0                                                  | 4                                                     |
| 1                                                  | 1                                                     | 1                                                  | 0                                                     | 0                                                  | 2                                                     | 0                                                  | 1                                                     |
| 6                                                  | 3                                                     | 6                                                  | 3                                                     | 6                                                  | 3                                                     | 6                                                  | 3                                                     |
| 6                                                  | 2                                                     | 6                                                  | 2                                                     | 5                                                  | 3                                                     | 6                                                  | 2                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 2                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     |

### The Center Measures - National Rankings

| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                             | 2020<br>No. of Measures<br>in Top 25<br>Nationally | 2020<br>No. of Measures<br>in Top 26-50<br>Nationally | 2019<br>No. of Measures<br>in Top 25<br>Nationally | 2019<br>No. of Measures<br>in Top 26-50<br>Nationally |
|----------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| Public                                                                     | Oregon State University                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Penn. State University - Hershey Med. Ctr.  | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Pennsylvania State University - Univ. Park  | 3                                                  | 3                                                     | 3                                                  | 3                                                     |
| Private                                                                    | Princeton University                        | 4                                                  | 3                                                     | 4                                                  | 3                                                     |
| Public                                                                     | Purdue University - West Lafayette          | 2                                                  | 5                                                     | 1                                                  | 6                                                     |
| Private                                                                    | Rensselaer Polytechnic Institute            | 0                                                  | 1                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Rice University                             | 2                                                  | 0                                                     | 2                                                  | 1                                                     |
| Private                                                                    | Rockefeller University                      | 1                                                  | 1                                                     | 1                                                  | 1                                                     |
| Private                                                                    | Rush University                             | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Rutgers University - New Brunswick          | 1                                                  | 4                                                     | 1                                                  | 4                                                     |
| Private                                                                    | Scripps Research Institute                  | 0                                                  | 3                                                     | 0                                                  | 3                                                     |
| Private                                                                    | Stanford University                         | 9                                                  | 0                                                     | 9                                                  | 0                                                     |
| Public                                                                     | State Univ. of New York - Polytechnic Inst. | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Stony Brook University                      | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Temple University                           | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Texas A&M University - College Station      | 3                                                  | 5                                                     | 3                                                  | 5                                                     |
| Private                                                                    | Thomas Jefferson University                 | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Tufts University                            | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| Private                                                                    | Tulane University                           | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| Public                                                                     | Uniformed Services Univ. of the Health Sci. | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University at Albany                        | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University at Buffalo                       | 0                                                  | 1                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Alabama - Birmingham          | 0                                                  | 2                                                     | 0                                                  | 2                                                     |
| Public                                                                     | University of Alabama - Huntsville          | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Alaska - Fairbanks            | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Arizona                       | 0                                                  | 6                                                     | 0                                                  | 7                                                     |
| Public                                                                     | University of Arkansas - Fayetteville       | 0                                                  | 0                                                     | 0                                                  | 1                                                     |
| Public                                                                     | University of Arkansas for Medical Sciences | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of California - Berkeley         | 6                                                  | 3                                                     | 6                                                  | 3                                                     |
| Public                                                                     | University of California - Davis            | 2                                                  | 5                                                     | 3                                                  | 4                                                     |
| Public                                                                     | University of California - Irvine           | 0                                                  | 3                                                     | 0                                                  | 4                                                     |
| Public                                                                     | University of California - Los Angeles      | 7                                                  | 1                                                     | 8                                                  | 0                                                     |
| Public                                                                     | University of California - Riverside        | 0                                                  | 0                                                     | 0                                                  | 1                                                     |
| Public                                                                     | University of California - San Diego        | 5                                                  | 2                                                     | 5                                                  | 2                                                     |
| Public                                                                     | University of California - San Francisco    | 6                                                  | 1                                                     | 5                                                  | 1                                                     |
| Public                                                                     | University of California - Santa Barbara    | 1                                                  | 2                                                     | 1                                                  | 0                                                     |
| Public                                                                     | University of California - Santa Cruz       | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Central Florida               | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | University of Chicago                       | 5                                                  | 3                                                     | 5                                                  | 3                                                     |
| Public                                                                     | University of Cincinnati - Cincinnati       | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Colorado - Boulder            | 0                                                  | 4                                                     | 1                                                  | 4                                                     |
| Public                                                                     | Univ. of Colorado - Denver/Anschutz Med.    | 0                                                  | 3                                                     | 0                                                  | 2                                                     |
| Public                                                                     | University of Connecticut - Health Center   | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Connecticut - Storrs          | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| Private                                                                    | University of Dayton                        | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Delaware                      | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Florida                       | 2                                                  | 4                                                     | 3                                                  | 4                                                     |
| Public                                                                     | University of Georgia                       | 0                                                  | 1                                                     | 0                                                  | 2                                                     |
| Public                                                                     | University of Hawaii - Manoa                | 0                                                  | 0                                                     | 0                                                  | 0                                                     |

| 2018<br>No. of Measures<br>in Top 25<br>Nationally | 2018<br>No. of Measures<br>in Top 26-50<br>Nationally | 2017<br>No. of Measures<br>in Top 25<br>Nationally | 2017<br>No. of Measures<br>in Top 26-50<br>Nationally | 2016<br>No. of Measures<br>in Top 25<br>Nationally | 2016<br>No. of Measures<br>in Top 26-50<br>Nationally | 2015<br>No. of Measures<br>in Top 25<br>Nationally | 2015<br>No. of Measures<br>in Top 26-50<br>Nationally |
|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 3                                                  | 2                                                     | 4                                                  | 1                                                     | 3                                                  | 4                                                     | 3                                                  | 4                                                     |
| 5                                                  | 1                                                     | 3                                                  | 4                                                     | 4                                                  | 2                                                     | 4                                                  | 3                                                     |
| 1                                                  | 5                                                     | 2                                                  | 4                                                     | 1                                                  | 5                                                     | 1                                                  | 5                                                     |
| 0                                                  | 0                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| 2                                                  | 1                                                     | 2                                                  | 0                                                     | 2                                                  | 1                                                     | 2                                                  | 1                                                     |
| 1                                                  | 1                                                     | 1                                                  | 1                                                     | 1                                                  | 1                                                     | 1                                                  | 1                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 1                                                  | 4                                                     | 1                                                  | 3                                                     | 3                                                  | 2                                                     | 0                                                  | 4                                                     |
| 0                                                  | 3                                                     | 0                                                  | 3                                                     | 1                                                  | 2                                                     | 0                                                  | 3                                                     |
| 9                                                  | 0                                                     | 9                                                  | 0                                                     | 9                                                  | 0                                                     | 9                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 4                                                  | 3                                                     | 4                                                  | 3                                                     | 3                                                  | 5                                                     | 4                                                  | 2                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 1                                                  | 0                                                     | 1                                                  | 0                                                     | 1                                                  | 0                                                     | 1                                                  | 0                                                     |
| 0                                                  | 1                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     |
| 0                                                  | 0                                                     | 0                                                  | 1                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 2                                                     | 0                                                  | 2                                                     | 0                                                  | 2                                                     | 0                                                  | 2                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 7                                                     | 0                                                  | 7                                                     | 0                                                  | 6                                                     | 0                                                  | 5                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 7                                                  | 2                                                     | 7                                                  | 2                                                     | 7                                                  | 2                                                     | 7                                                  | 1                                                     |
| 1                                                  | 5                                                     | 2                                                  | 4                                                     | 3                                                  | 3                                                     | 2                                                  | 3                                                     |
| 0                                                  | 3                                                     | 0                                                  | 3                                                     | 0                                                  | 3                                                     | 0                                                  | 3                                                     |
| 8                                                  | 0                                                     | 8                                                  | 0                                                     | 7                                                  | 1                                                     | 7                                                  | 1                                                     |
| 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 5                                                  | 2                                                     | 5                                                  | 2                                                     | 5                                                  | 2                                                     | 4                                                  | 3                                                     |
| 5                                                  | 2                                                     | 6                                                  | 1                                                     | 6                                                  | 1                                                     | 6                                                  | 1                                                     |
| 1                                                  | 0                                                     | 1                                                  | 0                                                     | 1                                                  | 0                                                     | 1                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 5                                                  | 3                                                     | 5                                                  | 3                                                     | 5                                                  | 3                                                     | 5                                                  | 3                                                     |
| 0                                                  | 0                                                     | 0                                                  | 2                                                     | 0                                                  | 1                                                     | 0                                                  | 4                                                     |
| 2                                                  | 4                                                     | 1                                                  | 5                                                     | 1                                                  | 4                                                     | 1                                                  | 3                                                     |
| 0                                                  | 2                                                     | 0                                                  | 1                                                     | 0                                                  | 2                                                     | 0                                                  | 1                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 1                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     |
| 3                                                  | 4                                                     | 3                                                  | 4                                                     | 3                                                  | 4                                                     | 2                                                  | 5                                                     |
| 0                                                  | 2                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 2                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |

### The Center Measures - National Rankings

| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                            | 2020<br>No. of Measures<br>in Top 25<br>Nationally | 2020<br>No. of Measures<br>in Top 26-50<br>Nationally | 2019<br>No. of Measures<br>in Top 25<br>Nationally | 2019<br>No. of Measures<br>in Top 26-50<br>Nationally |
|----------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| Public                                                                     | University of Houston - University Park    | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Idaho                        | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Illinois - Chicago           | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Illinois - Urbana-Champaign  | 2                                                  | 5                                                     | 3                                                  | 4                                                     |
| Public                                                                     | University of Iowa                         | 0                                                  | 1                                                     | 0                                                  | 2                                                     |
| Public                                                                     | University of Kansas - Lawrence            | 0                                                  | 1                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Kansas Medical Center        | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Kentucky                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Louisville                   | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Maine - Orono                | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Maryland - Baltimore         | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Maryland - Baltimore County  | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Maryland - College Park      | 1                                                  | 5                                                     | 1                                                  | 4                                                     |
| Public                                                                     | University of Massachusetts - Amherst      | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| Public                                                                     | Univ. of Mass. Med. Sch. - Worcester       | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | University of Miami                        | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| Public                                                                     | University of Michigan - Ann Arbor         | 8                                                  | 1                                                     | 8                                                  | 1                                                     |
| Public                                                                     | University of Minnesota - Twin Cities      | 6                                                  | 2                                                     | 6                                                  | 2                                                     |
| Public                                                                     | University of Missouri - Columbia          | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| Public                                                                     | University of Montana - Missoula           | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Nebraska - Lincoln           | 0                                                  | 0                                                     | 0                                                  | 1                                                     |
| Public                                                                     | University of Nebraska Medical Center      | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Nevada - Reno                | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of New Hampshire - Durham       | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of New Mexico - Albuquerque     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of North Carolina - Chapel Hill | 5                                                  | 3                                                     | 5                                                  | 3                                                     |
| Public                                                                     | University of North Dakota                 | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | University of Notre Dame                   | 3                                                  | 1                                                     | 3                                                  | 0                                                     |
| Public                                                                     | Univ. of Oklahoma - Health Sciences Ctr.   | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Oklahoma - Norman            | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Oregon                       | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| Private                                                                    | University of Pennsylvania                 | 8                                                  | 1                                                     | 8                                                  | 1                                                     |
| Public                                                                     | University of Pittsburgh - Pittsburgh      | 3                                                  | 3                                                     | 3                                                  | 4                                                     |
| Public                                                                     | University of Rhode Island                 | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | University of Rochester                    | 0                                                  | 3                                                     | 0                                                  | 3                                                     |
| Public                                                                     | University of South Carolina - Columbia    | 0                                                  | 1                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of South Florida - Tampa        | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| Private                                                                    | University of Southern California          | 6                                                  | 3                                                     | 4                                                  | 5                                                     |
| Public                                                                     | University of Tennessee - Knoxville        | 0                                                  | 0                                                     | 0                                                  | 2                                                     |
| Public                                                                     | University of Texas - Austin               | 4                                                  | 4                                                     | 5                                                  | 2                                                     |
| Public                                                                     | University of Texas - El Paso              | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Texas HSC - Houston          | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Texas HSC - San Antonio      | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Univ. of Texas MD Anderson Cancer Center   | 1                                                  | 1                                                     | 2                                                  | 0                                                     |
| Public                                                                     | Univ. of Texas Medical Branch - Galveston  | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Univ. of Texas SW Medical Center - Dallas  | 0                                                  | 2                                                     | 0                                                  | 2                                                     |
| Public                                                                     | University of Utah                         | 0                                                  | 5                                                     | 0                                                  | 4                                                     |
| Public                                                                     | University of Vermont                      | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | University of Virginia                     | 1                                                  | 5                                                     | 1                                                  | 1                                                     |

| 2018<br>No. of Measures<br>in Top 25<br>Nationally | 2018<br>No. of Measures<br>in Top 26-50<br>Nationally | 2017<br>No. of Measures<br>in Top 25<br>Nationally | 2017<br>No. of Measures<br>in Top 26-50<br>Nationally | 2016<br>No. of Measures<br>in Top 25<br>Nationally | 2016<br>No. of Measures<br>in Top 26-50<br>Nationally | 2015<br>No. of Measures<br>in Top 25<br>Nationally | 2015<br>No. of Measures<br>in Top 26-50<br>Nationally |
|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 1                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     |
| 3                                                  | 4                                                     | 3                                                  | 4                                                     | 3                                                  | 4                                                     | 5                                                  | 2                                                     |
| 0                                                  | 3                                                     | 0                                                  | 3                                                     | 0                                                  | 3                                                     | 0                                                  | 4                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 2                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 1                                                  | 5                                                     | 1                                                  | 5                                                     | 1                                                  | 5                                                     | 1                                                  | 5                                                     |
| 0                                                  | 1                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     | 0                                                  | 0                                                     |
| 0                                                  | 1                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     |
| 0                                                  | 2                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| 8                                                  | 1                                                     | 8                                                  | 1                                                     | 8                                                  | 1                                                     | 8                                                  | 0                                                     |
| 6                                                  | 2                                                     | 6                                                  | 2                                                     | 6                                                  | 2                                                     | 6                                                  | 2                                                     |
| 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 6                                                  | 3                                                     | 6                                                  | 2                                                     | 5                                                  | 3                                                     | 6                                                  | 2                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 3                                                  | 1                                                     | 3                                                  | 1                                                     | 3                                                  | 1                                                     | 3                                                  | 1                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 0                                                     |
| 0                                                  | 1                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 9                                                  | 0                                                     | 9                                                  | 0                                                     | 9                                                  | 0                                                     | 8                                                  | 1                                                     |
| 4                                                  | 3                                                     | 3                                                  | 4                                                     | 4                                                  | 2                                                     | 5                                                  | 2                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 2                                                     | 0                                                  | 2                                                     | 0                                                  | 4                                                     | 0                                                  | 3                                                     |
| 0                                                  | 2                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 1                                                     | 0                                                  | 2                                                     | 0                                                  | 1                                                     | 0                                                  | 0                                                     |
| 4                                                  | 4                                                     | 6                                                  | 3                                                     | 6                                                  | 3                                                     | 6                                                  | 3                                                     |
| 0                                                  | 1                                                     | 0                                                  | 1                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     |
| 5                                                  | 2                                                     | 4                                                  | 4                                                     | 4                                                  | 4                                                     | 4                                                  | 4                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 2                                                  | 0                                                     | 2                                                  | 1                                                     | 1                                                  | 2                                                     | 1                                                  | 2                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 3                                                     | 0                                                  | 5                                                     | 0                                                  | 4                                                     | 0                                                  | 4                                                     |
| 0                                                  | 1                                                     | 0                                                  | 5                                                     | 0                                                  | 4                                                     | 0                                                  | 5                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 1                                                  | 3                                                     | 1                                                  | 2                                                     | 1                                                  | 4                                                     | 1                                                  | 4                                                     |

### The Center Measures - National Rankings

| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                              | 2020<br>No. of Measures<br>in Top 25<br>Nationally | 2020<br>No. of Measures<br>in Top 26-50<br>Nationally | 2019<br>No. of Measures<br>in Top 25<br>Nationally | 2019<br>No. of Measures<br>in Top 26-50<br>Nationally |
|----------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| Public                                                                     | University of Washington - Seattle           | 7                                                  | 1                                                     | 7                                                  | 1                                                     |
| Public                                                                     | University of Wisconsin - Madison            | 6                                                  | 2                                                     | 6                                                  | 2                                                     |
| Public                                                                     | University of Wyoming                        | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Utah State University                        | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Vanderbilt University                        | 3                                                  | 5                                                     | 3                                                  | 5                                                     |
| Public                                                                     | Virginia Commonwealth University             | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Virginia Polytechnic Institute and St. Univ. | 0                                                  | 3                                                     | 0                                                  | 3                                                     |
| Private                                                                    | Wake Forest University                       | 0                                                  | 0                                                     | 0                                                  | 1                                                     |
| Public                                                                     | Washington State University - Pullman        | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Washington University in St. Louis           | 7                                                  | 1                                                     | 6                                                  | 1                                                     |
| Public                                                                     | Wayne State University                       | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Weill Cornell Medical College                | 0                                                  | 1                                                     | 0                                                  | 2                                                     |
| Public                                                                     | West Virginia University                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Woods Hole Oceanographic Institution         | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Public                                                                     | Wright State University - Dayton             | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| Private                                                                    | Yale University                              | 8                                                  | 1                                                     | 8                                                  | 1                                                     |
| Private                                                                    | Yeshiva University                           | 0                                                  | 0                                                     | 0                                                  | 0                                                     |

| 2018<br>No. of Measures<br>in Top 25<br>Nationally | 2018<br>No. of Measures<br>in Top 26-50<br>Nationally | 2017<br>No. of Measures<br>in Top 25<br>Nationally | 2017<br>No. of Measures<br>in Top 26-50<br>Nationally | 2016<br>No. of Measures<br>in Top 25<br>Nationally | 2016<br>No. of Measures<br>in Top 26-50<br>Nationally | 2015<br>No. of Measures<br>in Top 25<br>Nationally | 2015<br>No. of Measures<br>in Top 26-50<br>Nationally |
|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| 7                                                  | 1                                                     | 7                                                  | 1                                                     | 7                                                  | 1                                                     | 7                                                  | 1                                                     |
| 6                                                  | 2                                                     | 7                                                  | 1                                                     | 7                                                  | 1                                                     | 6                                                  | 2                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 3                                                  | 4                                                     | 3                                                  | 4                                                     | 4                                                  | 3                                                     | 4                                                  | 4                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 3                                                     | 0                                                  | 2                                                     | 0                                                  | 2                                                     | 0                                                  | 2                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 5                                                  | 3                                                     | 4                                                  | 4                                                     | 4                                                  | 4                                                     | 5                                                  | 3                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 2                                                     | 0                                                  | 1                                                     | 0                                                  | 2                                                     | 0                                                  | 2                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     |
| 8                                                  | 1                                                     | 8                                                  | 1                                                     | 8                                                  | 1                                                     | 8                                                  | 1                                                     |
| 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 0                                                     | 0                                                  | 1                                                     |

### The Center Measures - Control Rankings

| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                          | 2020<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2020<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2019<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2019<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics |
|----------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|
| Public                                                                     | Arizona State University                 | 4                                                                 | 4                                                                    | 2                                                                 | 5                                                                    |
| Public                                                                     | Auburn University                        | 0                                                                 | 1                                                                    | 0                                                                 | 2                                                                    |
| Public                                                                     | Augusta University                       | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Private                                                                    | Baylor College of Medicine               | 4                                                                 | 1                                                                    | 3                                                                 | 2                                                                    |
| Private                                                                    | Boston University                        | 6                                                                 | 3                                                                    | 6                                                                 | 2                                                                    |
| Private                                                                    | Brown University                         | 5                                                                 | 4                                                                    | 4                                                                 | 5                                                                    |
| Private                                                                    | California Institute of Technology       | 7                                                                 | 2                                                                    | 8                                                                 | 1                                                                    |
| Private                                                                    | Carnegie Mellon University               | 5                                                                 | 4                                                                    | 6                                                                 | 3                                                                    |
| Private                                                                    | Case Western Reserve University          | 3                                                                 | 6                                                                    | 2                                                                 | 7                                                                    |
| Public                                                                     | Clemson University                       | 0                                                                 | 1                                                                    | 1                                                                 | 1                                                                    |
| Public                                                                     | Cleveland State University               | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Private                                                                    | Cold Spring Harbor Laboratory            | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    |
| Public                                                                     | Colorado State University - Fort Collins | 0                                                                 | 5                                                                    | 0                                                                 | 5                                                                    |
| Private                                                                    | Columbia University                      | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Private                                                                    | Cornell University                       | 9                                                                 | 0                                                                    | 8                                                                 | 1                                                                    |
| Private                                                                    | Dartmouth College                        | 4                                                                 | 4                                                                    | 4                                                                 | 4                                                                    |
| Private                                                                    | Drexel University                        | 1                                                                 | 5                                                                    | 1                                                                 | 6                                                                    |
| Private                                                                    | Duke University                          | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Private                                                                    | Emory University                         | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    |
| Public                                                                     | Florida International University         | 0                                                                 | 2                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | Florida State University                 | 0                                                                 | 4                                                                    | 1                                                                 | 2                                                                    |
| Public                                                                     | George Mason University                  | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    |
| Private                                                                    | George Washington University             | 0                                                                 | 8                                                                    | 1                                                                 | 7                                                                    |
| Private                                                                    | Georgetown University                    | 1                                                                 | 7                                                                    | 1                                                                 | 7                                                                    |
| Public                                                                     | Georgia Institute of Technology          | 7                                                                 | 2                                                                    | 7                                                                 | 2                                                                    |
| Public                                                                     | Georgia State University                 | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Private                                                                    | Harvard University                       | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Private                                                                    | Icahn School of Medicine at Mount Sinai  | 5                                                                 | 1                                                                    | 4                                                                 | 2                                                                    |
| Public                                                                     | Indiana University - Bloomington         | 3                                                                 | 5                                                                    | 4                                                                 | 4                                                                    |
| Public                                                                     | Iowa State University                    | 0                                                                 | 6                                                                    | 0                                                                 | 7                                                                    |
| Private                                                                    | Johns Hopkins University                 | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | Kansas State University                  | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | Louisiana State University - Baton Rouge | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    |
| Private                                                                    | Massachusetts Institute of Technology    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Private                                                                    | Medical College of Wisconsin             | 0                                                                 | 3                                                                    | 0                                                                 | 3                                                                    |
| Public                                                                     | Medical University of South Carolina     | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | Michigan State University                | 7                                                                 | 1                                                                    | 7                                                                 | 1                                                                    |
| Public                                                                     | Mississippi State University             | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | Montana State University - Bozeman       | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | Naval Postgraduate School                | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | New Jersey Institute of Technology       | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    |
| Public                                                                     | New Mexico State University - Las Cruces | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Private                                                                    | New York University                      | 8                                                                 | 0                                                                    | 8                                                                 | 0                                                                    |
| Public                                                                     | North Carolina State University          | 4                                                                 | 5                                                                    | 4                                                                 | 5                                                                    |
| Private                                                                    | Northeastern University                  | 0                                                                 | 8                                                                    | 2                                                                 | 5                                                                    |
| Private                                                                    | Northwestern University                  | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | Ohio State University - Columbus         | 8                                                                 | 1                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | Oklahoma State University - Stillwater   | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | Oregon Health & Science University       | 0                                                                 | 6                                                                    | 0                                                                 | 5                                                                    |

| 2018<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2018<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2017<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2017<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2016<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2016<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2015<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2015<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics |
|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|
| 3                                                                 | 4                                                                    | 2                                                                 | 5                                                                    | 2                                                                 | 5                                                                    | 1                                                                 | 6                                                                    |
| 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 4                                                                 | 2                                                                    | 4                                                                 | 2                                                                    | 4                                                                 | 3                                                                    | 4                                                                 | 1                                                                    |
| 6                                                                 | 2                                                                    | 6                                                                 | 2                                                                    | 5                                                                 | 3                                                                    | 5                                                                 | 3                                                                    |
| 5                                                                 | 4                                                                    | 5                                                                 | 4                                                                    | 4                                                                 | 5                                                                    | 4                                                                 | 5                                                                    |
| 8                                                                 | 1                                                                    | 7                                                                 | 2                                                                    | 8                                                                 | 1                                                                    | 6                                                                 | 3                                                                    |
| 4                                                                 | 5                                                                    | 6                                                                 | 3                                                                    | 5                                                                 | 4                                                                    | 6                                                                 | 3                                                                    |
| 4                                                                 | 5                                                                    | 5                                                                 | 4                                                                    | 2                                                                 | 7                                                                    | 2                                                                 | 7                                                                    |
| 1                                                                 | 1                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 3                                                                    |
| 0                                                                 | 5                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 5                                                                    | 1                                                                 | 5                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 7                                                                 | 2                                                                    | 7                                                                 | 2                                                                    | 7                                                                 | 2                                                                    | 7                                                                 | 2                                                                    |
| 2                                                                 | 6                                                                    | 3                                                                 | 5                                                                    | 3                                                                 | 5                                                                    | 3                                                                 | 5                                                                    |
| 0                                                                 | 7                                                                    | 0                                                                 | 7                                                                    | 0                                                                 | 7                                                                    | 0                                                                 | 7                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 4                                                                    | 0                                                                 | 5                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 2                                                                 | 6                                                                    | 1                                                                 | 7                                                                    | 3                                                                 | 5                                                                    | 2                                                                 | 6                                                                    |
| 1                                                                 | 8                                                                    | 1                                                                 | 7                                                                    | 1                                                                 | 8                                                                    | 1                                                                 | 8                                                                    |
| 7                                                                 | 2                                                                    | 7                                                                 | 2                                                                    | 7                                                                 | 1                                                                    | 8                                                                 | 1                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 3                                                                 | 3                                                                    | 3                                                                 | 3                                                                    | 4                                                                 | 2                                                                    | 4                                                                 | 2                                                                    |
| 3                                                                 | 4                                                                    | 2                                                                 | 5                                                                    | 3                                                                 | 1                                                                    | 2                                                                 | 2                                                                    |
| 1                                                                 | 6                                                                    | 0                                                                 | 5                                                                    | 0                                                                 | 6                                                                    | 0                                                                 | 4                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 1                                                                 | 0                                                                    |
| 0                                                                 | 4                                                                    | 0                                                                 | 2                                                                    | 0                                                                 | 3                                                                    | 0                                                                 | 3                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 6                                                                 | 3                                                                    | 5                                                                 | 3                                                                    | 4                                                                 | 4                                                                    | 5                                                                 | 3                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 8                                                                 | 0                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 0                                                                    | 8                                                                 | 0                                                                    |
| 4                                                                 | 5                                                                    | 3                                                                 | 6                                                                    | 2                                                                 | 7                                                                    | 2                                                                 | 7                                                                    |
| 2                                                                 | 6                                                                    | 2                                                                 | 5                                                                    | 1                                                                 | 7                                                                    | 1                                                                 | 6                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 1                                                                 | 5                                                                    | 0                                                                 | 5                                                                    | 0                                                                 | 5                                                                    | 1                                                                 | 4                                                                    |

### The Center Measures - Control Rankings

| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                              | 2020<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2020<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2019<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2019<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics |
|----------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|
| Public                                                                     | Oregon State University                      | 0                                                                 | 4                                                                    | 0                                                                 | 2                                                                    |
| Public                                                                     | Pennsylvania State Univ. - Hershey Med. Ctr. | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | Pennsylvania State University - Univ. Park   | 6                                                                 | 2                                                                    | 6                                                                 | 1                                                                    |
| Private                                                                    | Princeton University                         | 7                                                                 | 2                                                                    | 7                                                                 | 2                                                                    |
| Public                                                                     | Purdue University - West Lafayette           | 7                                                                 | 2                                                                    | 7                                                                 | 2                                                                    |
| Private                                                                    | Rensselaer Polytechnic Institute             | 0                                                                 | 8                                                                    | 0                                                                 | 7                                                                    |
| Private                                                                    | Rice University                              | 2                                                                 | 7                                                                    | 3                                                                 | 6                                                                    |
| Private                                                                    | Rockefeller University                       | 2                                                                 | 5                                                                    | 3                                                                 | 4                                                                    |
| Private                                                                    | Rush University                              | 0                                                                 | 3                                                                    | 0                                                                 | 3                                                                    |
| Public                                                                     | Rutgers University - New Brunswick           | 5                                                                 | 4                                                                    | 5                                                                 | 4                                                                    |
| Private                                                                    | Scripps Research Institute                   | 4                                                                 | 1                                                                    | 4                                                                 | 1                                                                    |
| Private                                                                    | Stanford University                          | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | State Univ. of New York - Polytechnic Ins.   | 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    |
| Public                                                                     | Stony Brook University                       | 1                                                                 | 4                                                                    | 1                                                                 | 3                                                                    |
| Public                                                                     | Temple University                            | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | Texas A&M University - College Station       | 8                                                                 | 1                                                                    | 7                                                                 | 1                                                                    |
| Private                                                                    | Thomas Jefferson University                  | 0                                                                 | 6                                                                    | 0                                                                 | 5                                                                    |
| Private                                                                    | Tufts University                             | 0                                                                 | 8                                                                    | 0                                                                 | 9                                                                    |
| Private                                                                    | Tulane University                            | 0                                                                 | 8                                                                    | 0                                                                 | 9                                                                    |
| Public                                                                     | Uniformed Services Univ. of the Health Sci.  | 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    |
| Public                                                                     | University at Albany                         | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University at Buffalo                        | 0                                                                 | 6                                                                    | 0                                                                 | 5                                                                    |
| Public                                                                     | University of Alabama - Birmingham           | 2                                                                 | 1                                                                    | 2                                                                 | 1                                                                    |
| Public                                                                     | University of Alabama - Huntsville           | 0                                                                 | 1                                                                    | 1                                                                 | 0                                                                    |
| Public                                                                     | University of Alaska - Fairbanks             | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of Arizona                        | 4                                                                 | 4                                                                    | 5                                                                 | 3                                                                    |
| Public                                                                     | University of Arkansas - Fayetteville        | 0                                                                 | 2                                                                    | 1                                                                 | 2                                                                    |
| Public                                                                     | University of Arkansas for Medical Sciences  | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of California - Berkeley          | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | University of California - Davis             | 8                                                                 | 1                                                                    | 7                                                                 | 1                                                                    |
| Public                                                                     | University of California - Irvine            | 2                                                                 | 7                                                                    | 3                                                                 | 5                                                                    |
| Public                                                                     | University of California - Los Angeles       | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | University of California - Riverside         | 0                                                                 | 2                                                                    | 1                                                                 | 1                                                                    |
| Public                                                                     | University of California - San Diego         | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | University of California - San Francisco     | 7                                                                 | 0                                                                    | 6                                                                 | 1                                                                    |
| Public                                                                     | University of California - Santa Barbara     | 3                                                                 | 3                                                                    | 1                                                                 | 3                                                                    |
| Public                                                                     | University of California - Santa Cruz        | 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    |
| Public                                                                     | University of Central Florida                | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    |
| Private                                                                    | University of Chicago                        | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | University of Cincinnati - Cincinnati        | 0                                                                 | 5                                                                    | 0                                                                 | 5                                                                    |
| Public                                                                     | University of Colorado - Boulder             | 3                                                                 | 4                                                                    | 3                                                                 | 5                                                                    |
| Public                                                                     | Univ. of Colorado - Denver/Anschutz Med.     | 1                                                                 | 4                                                                    | 1                                                                 | 4                                                                    |
| Public                                                                     | University of Connecticut - Health Center    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of Connecticut - Storrs           | 0                                                                 | 3                                                                    | 0                                                                 | 3                                                                    |
| Private                                                                    | University of Dayton                         | 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    |
| Public                                                                     | University of Delaware                       | 1                                                                 | 1                                                                    | 0                                                                 | 2                                                                    |
| Public                                                                     | University of Florida                        | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    |
| Public                                                                     | University of Georgia                        | 2                                                                 | 6                                                                    | 2                                                                 | 5                                                                    |
| Public                                                                     | University of Hawaii - Manoa                 | 0                                                                 | 2                                                                    | 0                                                                 | 3                                                                    |

| 2018<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2018<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2017<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2017<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2016<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2016<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2015<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2015<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics |
|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|
| 0                                                                 | 1                                                                    | 0                                                                 | 2                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 3                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 5                                                                 | 2                                                                    | 5                                                                 | 2                                                                    | 5                                                                 | 2                                                                    | 7                                                                 | 0                                                                    |
| 7                                                                 | 2                                                                    | 7                                                                 | 2                                                                    | 7                                                                 | 2                                                                    | 7                                                                 | 2                                                                    |
| 5                                                                 | 3                                                                    | 5                                                                 | 4                                                                    | 6                                                                 | 3                                                                    | 5                                                                 | 4                                                                    |
| 0                                                                 | 5                                                                    | 0                                                                 | 7                                                                    | 0                                                                 | 7                                                                    | 0                                                                 | 7                                                                    |
| 3                                                                 | 6                                                                    | 3                                                                 | 6                                                                    | 3                                                                 | 6                                                                    | 3                                                                 | 6                                                                    |
| 1                                                                 | 5                                                                    | 3                                                                 | 4                                                                    | 2                                                                 | 4                                                                    | 2                                                                 | 4                                                                    |
| 0                                                                 | 3                                                                    | 0                                                                 | 3                                                                    | 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    |
| 5                                                                 | 3                                                                    | 4                                                                 | 5                                                                    | 5                                                                 | 4                                                                    | 3                                                                 | 6                                                                    |
| 4                                                                 | 1                                                                    | 5                                                                 | 0                                                                    | 4                                                                 | 0                                                                    | 4                                                                 | 0                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    |
| 0                                                                 | 5                                                                    | 1                                                                 | 4                                                                    | 0                                                                 | 5                                                                    | 0                                                                 | 5                                                                    |
| 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    |
| 7                                                                 | 1                                                                    | 7                                                                 | 1                                                                    | 7                                                                 | 1                                                                    | 5                                                                 | 2                                                                    |
| 0                                                                 | 4                                                                    | 0                                                                 | 5                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    |
| 1                                                                 | 8                                                                    | 1                                                                 | 8                                                                    | 1                                                                 | 8                                                                    | 1                                                                 | 8                                                                    |
| 0                                                                 | 8                                                                    | 0                                                                 | 8                                                                    | 0                                                                 | 8                                                                    | 0                                                                 | 7                                                                    |
| 0                                                                 | 1                                                                    | 1                                                                 | 1                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 5                                                                    | 0                                                                 | 5                                                                    | 0                                                                 | 5                                                                    | 0                                                                 | 4                                                                    |
| 2                                                                 | 2                                                                    | 2                                                                 | 1                                                                    | 1                                                                 | 3                                                                    | 1                                                                 | 3                                                                    |
| 1                                                                 | 0                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 5                                                                 | 3                                                                    | 5                                                                 | 3                                                                    | 6                                                                 | 2                                                                    | 4                                                                 | 4                                                                    |
| 0                                                                 | 2                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 2                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 5                                                                 | 3                                                                    | 5                                                                 | 4                                                                    | 6                                                                 | 3                                                                    | 5                                                                 | 3                                                                    |
| 2                                                                 | 5                                                                    | 2                                                                 | 4                                                                    | 2                                                                 | 4                                                                    | 2                                                                 | 5                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 1                                                                 | 1                                                                    | 0                                                                 | 2                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 2                                                                    |
| 9                                                                 | 0                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    |
| 7                                                                 | 0                                                                    | 7                                                                 | 0                                                                    | 7                                                                 | 0                                                                    | 7                                                                 | 0                                                                    |
| 1                                                                 | 4                                                                    | 1                                                                 | 5                                                                    | 1                                                                 | 4                                                                    | 1                                                                 | 4                                                                    |
| 0                                                                 | 1                                                                    | 0                                                                 | 2                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 0                                                                 | 7                                                                    | 1                                                                 | 6                                                                    | 1                                                                 | 5                                                                    | 1                                                                 | 6                                                                    |
| 5                                                                 | 3                                                                    | 5                                                                 | 3                                                                    | 4                                                                 | 4                                                                    | 3                                                                 | 4                                                                    |
| 2                                                                 | 3                                                                    | 1                                                                 | 4                                                                    | 2                                                                 | 3                                                                    | 1                                                                 | 4                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 2                                                                    | 1                                                                 | 1                                                                    | 0                                                                 | 3                                                                    | 0                                                                 | 1                                                                    |
| 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    |
| 1                                                                 | 2                                                                    | 1                                                                 | 1                                                                    | 1                                                                 | 1                                                                    | 1                                                                 | 1                                                                    |
| 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    | 9                                                                 | 0                                                                    |
| 1                                                                 | 8                                                                    | 1                                                                 | 6                                                                    | 0                                                                 | 6                                                                    | 1                                                                 | 6                                                                    |
| 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 5                                                                    |

### The Center Measures - Control Rankings

| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                            | 2020<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2020<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2019<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2019<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics |
|----------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|
| Public                                                                     | University of Houston - University Park    | 0                                                                 | 2                                                                    | 0                                                                 | 4                                                                    |
| Public                                                                     | University of Idaho                        | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of Illinois - Chicago           | 0                                                                 | 3                                                                    | 0                                                                 | 4                                                                    |
| Public                                                                     | University of Illinois - Urbana-Champaign  | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | University of Iowa                         | 1                                                                 | 7                                                                    | 1                                                                 | 7                                                                    |
| Public                                                                     | University of Kansas - Lawrence            | 1                                                                 | 1                                                                    | 0                                                                 | 2                                                                    |
| Public                                                                     | University of Kansas Medical Center        | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of Kentucky                     | 0                                                                 | 7                                                                    | 0                                                                 | 5                                                                    |
| Public                                                                     | University of Louisville                   | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of Maine - Orono                | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of Maryland - Baltimore         | 0                                                                 | 4                                                                    | 0                                                                 | 3                                                                    |
| Public                                                                     | University of Maryland - Baltimore County  | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of Maryland - College Park      | 6                                                                 | 2                                                                    | 6                                                                 | 2                                                                    |
| Public                                                                     | University of Massachusetts - Amherst      | 1                                                                 | 3                                                                    | 0                                                                 | 2                                                                    |
| Public                                                                     | University of Mass. Med. Sch. - Worcester  | 0                                                                 | 3                                                                    | 0                                                                 | 3                                                                    |
| Private                                                                    | University of Miami                        | 3                                                                 | 4                                                                    | 3                                                                 | 4                                                                    |
| Public                                                                     | University of Michigan - Ann Arbor         | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | University of Minnesota - Twin Cities      | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | University of Missouri - Columbia          | 0                                                                 | 3                                                                    | 1                                                                 | 4                                                                    |
| Public                                                                     | University of Montana - Missoula           | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of Nebraska - Lincoln           | 0                                                                 | 2                                                                    | 1                                                                 | 1                                                                    |
| Public                                                                     | University of Nebraska Medical Center      | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of Nevada - Reno                | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of New Hampshire - Durham       | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of New Mexico - Albuquerque     | 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    |
| Public                                                                     | University of North Carolina - Chapel Hill | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | University of North Dakota                 | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Private                                                                    | University of Notre Dame                   | 5                                                                 | 2                                                                    | 4                                                                 | 5                                                                    |
| Public                                                                     | Univ. of Oklahoma - Health Sciences Ctr.   | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of Oklahoma - Norman            | 0                                                                 | 2                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of Oregon                       | 1                                                                 | 2                                                                    | 1                                                                 | 3                                                                    |
| Private                                                                    | University of Pennsylvania                 | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | University of Pittsburgh - Pittsburgh      | 7                                                                 | 2                                                                    | 7                                                                 | 2                                                                    |
| Public                                                                     | University of Rhode Island                 | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Private                                                                    | University of Rochester                    | 4                                                                 | 4                                                                    | 3                                                                 | 5                                                                    |
| Public                                                                     | University of South Carolina - Columbia    | 0                                                                 | 2                                                                    | 0                                                                 | 4                                                                    |
| Public                                                                     | University of South Florida - Tampa        | 0                                                                 | 6                                                                    | 0                                                                 | 6                                                                    |
| Private                                                                    | University of Southern California          | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    |
| Public                                                                     | University of Tennessee - Knoxville        | 0                                                                 | 4                                                                    | 0                                                                 | 3                                                                    |
| Public                                                                     | University of Texas - Austin               | 9                                                                 | 0                                                                    | 8                                                                 | 1                                                                    |
| Public                                                                     | University of Texas - El Paso              | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | University of Texas HSC - Houston          | 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    |
| Public                                                                     | University of Texas HSC - San Antonio      | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | Univ. of Texas MD Anderson Cancer Center   | 2                                                                 | 4                                                                    | 2                                                                 | 4                                                                    |
| Public                                                                     | Univ. of Texas Medical Branch - Galveston  | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | Univ. of Texas SW Medical Center - Dallas  | 3                                                                 | 3                                                                    | 3                                                                 | 4                                                                    |
| Public                                                                     | University of Utah                         | 2                                                                 | 6                                                                    | 3                                                                 | 5                                                                    |
| Public                                                                     | University of Vermont                      | 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    |
| Public                                                                     | University of Virginia                     | 5                                                                 | 4                                                                    | 3                                                                 | 5                                                                    |

| 2018<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2018<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2017<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2017<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2016<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2016<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2015<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2015<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics |
|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|
| 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 3                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 5                                                                    | 0                                                                 | 5                                                                    |
| 9                                                                 | 0                                                                    | 8                                                                 | 1                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 1                                                                 | 7                                                                    | 2                                                                 | 6                                                                    | 2                                                                 | 6                                                                    | 3                                                                 | 6                                                                    |
| 0                                                                 | 4                                                                    | 0                                                                 | 2                                                                    | 1                                                                 | 2                                                                    | 1                                                                 | 2                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 8                                                                    | 1                                                                 | 4                                                                    | 0                                                                 | 6                                                                    | 0                                                                 | 6                                                                    |
| 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    |
| 5                                                                 | 3                                                                    | 7                                                                 | 1                                                                    | 6                                                                 | 2                                                                    | 7                                                                 | 0                                                                    |
| 0                                                                 | 2                                                                    | 0                                                                 | 3                                                                    | 1                                                                 | 1                                                                    | 0                                                                 | 3                                                                    |
| 0                                                                 | 4                                                                    | 0                                                                 | 3                                                                    | 0                                                                 | 3                                                                    | 0                                                                 | 3                                                                    |
| 4                                                                 | 4                                                                    | 3                                                                 | 4                                                                    | 3                                                                 | 4                                                                    | 3                                                                 | 4                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 1                                                                 | 4                                                                    | 0                                                                 | 6                                                                    | 0                                                                 | 5                                                                    | 0                                                                 | 5                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 1                                                                    | 0                                                                 | 2                                                                    | 1                                                                 | 1                                                                    | 0                                                                 | 2                                                                    |
| 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    | 0                                                                 | 2                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 4                                                                 | 5                                                                    | 4                                                                 | 5                                                                    | 5                                                                 | 4                                                                    | 4                                                                 | 5                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 1                                                                 | 1                                                                    | 1                                                                 | 1                                                                    | 1                                                                 | 1                                                                    | 0                                                                 | 1                                                                    |
| 1                                                                 | 2                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 1                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 6                                                                 | 3                                                                    | 7                                                                 | 2                                                                    | 6                                                                 | 3                                                                    | 7                                                                 | 2                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 3                                                                 | 5                                                                    | 3                                                                 | 5                                                                    | 5                                                                 | 3                                                                    | 5                                                                 | 2                                                                    |
| 2                                                                 | 3                                                                    | 0                                                                 | 2                                                                    | 0                                                                 | 5                                                                    | 0                                                                 | 3                                                                    |
| 0                                                                 | 6                                                                    | 1                                                                 | 5                                                                    | 0                                                                 | 6                                                                    | 0                                                                 | 5                                                                    |
| 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    |
| 0                                                                 | 3                                                                    | 1                                                                 | 2                                                                    | 0                                                                 | 3                                                                    | 0                                                                 | 5                                                                    |
| 7                                                                 | 2                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    | 9                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 1                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 2                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 2                                                                 | 4                                                                    | 4                                                                 | 2                                                                    | 4                                                                 | 2                                                                    | 4                                                                 | 2                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 3                                                                 | 4                                                                    | 4                                                                 | 3                                                                    | 4                                                                 | 3                                                                    | 4                                                                 | 3                                                                    |
| 1                                                                 | 6                                                                    | 5                                                                 | 3                                                                    | 3                                                                 | 5                                                                    | 5                                                                 | 3                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 4                                                                 | 5                                                                    | 4                                                                 | 5                                                                    | 5                                                                 | 4                                                                    | 4                                                                 | 5                                                                    |

### The Center Measures - Control Rankings

| Institutions with Over \$40 Million<br>in Federal Research, Alphabetically |                                              | 2020<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2020<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2019<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2019<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics |
|----------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|
| Public                                                                     | University of Washington - Seattle           | 9                                                                 | 0                                                                    | 8                                                                 | 1                                                                    |
| Public                                                                     | University of Wisconsin - Madison            | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | University of Wyoming                        | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Public                                                                     | Utah State University                        | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    |
| Private                                                                    | Vanderbilt University                        | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | Virginia Commonwealth University             | 1                                                                 | 1                                                                    | 1                                                                 | 1                                                                    |
| Public                                                                     | Virginia Polytechnic Institute and St. Univ. | 1                                                                 | 7                                                                    | 1                                                                 | 8                                                                    |
| Private                                                                    | Wake Forest University                       | 0                                                                 | 7                                                                    | 1                                                                 | 6                                                                    |
| Public                                                                     | Washington State University - Pullman        | 0                                                                 | 4                                                                    | 0                                                                 | 5                                                                    |
| Private                                                                    | Washington University in St. Louis           | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Public                                                                     | Wayne State University                       | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Private                                                                    | Weill Cornell Medical College                | 2                                                                 | 5                                                                    | 3                                                                 | 3                                                                    |
| Public                                                                     | West Virginia University                     | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    |
| Private                                                                    | Woods Hole Oceanographic Institution         | 0                                                                 | 3                                                                    | 0                                                                 | 4                                                                    |
| Public                                                                     | Wright State University - Dayton             | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| Private                                                                    | Yale University                              | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| Private                                                                    | Yeshiva University                           | 1                                                                 | 3                                                                    | 0                                                                 | 5                                                                    |

| 2018<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2018<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2017<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2017<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2016<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2016<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics | 2015<br>No. of Measures<br>in Top 25<br>Among<br>Privates/Publics | 2015<br>No. of Measures<br>in Top 26-50<br>Among<br>Privates/Publics |
|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|
| 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 9                                                                 | 0                                                                    | 8                                                                 | 1                                                                    | 8                                                                 | 1                                                                    | 9                                                                 | 0                                                                    |
| 1                                                                 | 0                                                                    | 1                                                                 | 0                                                                    | 1                                                                 | 1                                                                    | 1                                                                 | 1                                                                    |
| 2                                                                 | 5                                                                    | 1                                                                 | 7                                                                    | 2                                                                 | 6                                                                    | 2                                                                 | 6                                                                    |
| 0                                                                 | 7                                                                    | 0                                                                 | 7                                                                    | 0                                                                 | 6                                                                    | 0                                                                 | 7                                                                    |
| 0                                                                 | 4                                                                    | 0                                                                 | 6                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 3                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    |
| 4                                                                 | 2                                                                    | 3                                                                 | 3                                                                    | 3                                                                 | 3                                                                    | 4                                                                 | 2                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 1                                                                    | 0                                                                 | 0                                                                    |
| 0                                                                 | 3                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    | 0                                                                 | 4                                                                    |
| 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    | 0                                                                 | 0                                                                    |
| 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    | 9                                                                 | 0                                                                    |
| 1                                                                 | 3                                                                    | 0                                                                 | 6                                                                    | 1                                                                 | 5                                                                    | 1                                                                 | 6                                                                    |

### Federal Research with and without Medical School Research

| Institutions with Over \$40 Million<br>in Federal Research excluding Standalone<br>Medical Schools, Alphabetically |                                            | AAMC<br>Med School | 2018<br>Federal<br>(x1000) | 2018<br>AAMC<br>Fed<br>(x1000) | 2018<br>Rank<br>Incl<br>AAMC | 2018<br>Rank<br>Excl<br>AAMC | 2017<br>Federal<br>(x1000) | 2017<br>AAMC<br>Fed<br>(x1000) | 2017<br>Rank<br>Incl<br>AAMC | 2017<br>Rank<br>Excl<br>AAMC |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------|----------------------------|--------------------------------|------------------------------|------------------------------|----------------------------|--------------------------------|------------------------------|------------------------------|
| Public                                                                                                             | Arizona State University                   |                    | 244,795                    | 0                              | 56                           | 33                           | 214,845                    | 0                              | 58                           | 36                           |
| Public                                                                                                             | Auburn University                          |                    | 57,718                     | 0                              | 141                          | 119                          | 54,693                     | 0                              | 142                          | 121                          |
| Public                                                                                                             | Augusta University                         | Yes                | 48,800                     | 31,762                         | 153                          | 206                          | 48,921                     | 27,926                         | 151                          | 185                          |
| Private                                                                                                            | Boston University                          | Yes                | 264,281                    | 104,750                        | 50                           | 51                           | 253,828                    | 103,975                        | 47                           | 52                           |
| Private                                                                                                            | Brown University                           | Yes                | 161,384                    | 49,832                         | 79                           | 71                           | 141,864                    | 45,325                         | 84                           | 82                           |
| Private                                                                                                            | California Institute of Technology         |                    | 268,765                    | 0                              | 47                           | 28                           | 272,323                    | 0                              | 44                           | 23                           |
| Private                                                                                                            | Carnegie Mellon University                 |                    | 181,958                    | 0                              | 70                           | 43                           | 189,974                    | 0                              | 65                           | 40                           |
| Private                                                                                                            | Case Western Reserve University            | Yes                | 346,935                    | 291,089                        | 33                           | 121                          | 325,354                    | 272,583                        | 36                           | 124                          |
| Public                                                                                                             | Clemson University                         |                    | 66,618                     | 0                              | 133                          | 110                          | 62,920                     | 0                              | 133                          | 110                          |
| Public                                                                                                             | Cleveland State University                 |                    | 54,987                     | 0                              | 146                          | 123                          | 52,317                     | 0                              | 146                          | 126                          |
| Private                                                                                                            | Cold Spring Harbor Laboratory              |                    | 67,139                     | 0                              | 132                          | 109                          | 54,260                     | 0                              | 143                          | 122                          |
| Public                                                                                                             | Colorado State University - Fort Collins   |                    | 257,355                    | 0                              | 52                           | 30                           | 232,405                    | 0                              | 54                           | 30                           |
| Private                                                                                                            | Columbia University                        | Yes                | 673,792                    | 343,676                        | 6                            | 16                           | 632,994                    | 314,062                        | 8                            | 18                           |
| Private                                                                                                            | Cornell University                         |                    | 297,855                    | 0                              | 43                           | 20                           | 279,525                    | 0                              | 43                           | 22                           |
| Private                                                                                                            | Dartmouth College                          | Yes                | 139,692                    | 78,206                         | 88                           | 115                          | 136,977                    | 83,359                         | 87                           | 123                          |
| Private                                                                                                            | Drexel University                          | Yes                | 80,074                     | 30,248                         | 123                          | 129                          | 69,326                     | 28,813                         | 127                          | 141                          |
| Private                                                                                                            | Duke University                            | Yes                | 644,179                    | 395,619                        | 10                           | 32                           | 622,174                    | 375,864                        | 9                            | 29                           |
| Private                                                                                                            | Emory University                           | Yes                | 392,971                    | 214,150                        | 27                           | 45                           | 381,151                    | 213,016                        | 25                           | 44                           |
| Public                                                                                                             | Florida International University           | Yes                | 80,417                     | 5,284                          | 122                          | 105                          | 66,351                     | 3,716                          | 130                          | 111                          |
| Public                                                                                                             | Florida State University                   | Yes                | 129,435                    | 10,886                         | 92                           | 69                           | 118,359                    | 6,839                          | 94                           | 72                           |
| Public                                                                                                             | George Mason University                    |                    | 64,315                     | 0                              | 135                          | 111                          | 52,432                     | 0                              | 145                          | 125                          |
| Private                                                                                                            | George Washington University               | Yes                | 153,412                    | 34,546                         | 82                           | 68                           | 144,567                    | 30,382                         | 81                           | 68                           |
| Private                                                                                                            | Georgetown University                      | Yes                | 88,778                     | 68,516                         | 110                          | 194                          | 93,224                     | 76,101                         | 107                          | 204                          |
| Public                                                                                                             | Georgia Institute of Technology            |                    | 646,317                    | 0                              | 9                            | 2                            | 578,107                    | 0                              | 12                           | 2                            |
| Public                                                                                                             | Georgia State University                   |                    | 55,241                     | 0                              | 145                          | 122                          | 54,842                     | 0                              | 141                          | 120                          |
| Private                                                                                                            | Harvard University                         | Yes                | 578,722                    | 188,060                        | 13                           | 10                           | 565,269                    | 165,167                        | 13                           | 8                            |
| Public                                                                                                             | Indiana University - Bloomington           | Yes                | 245,402                    | 153,988                        | 55                           | 87                           | 241,350                    | 131,070                        | 50                           | 74                           |
| Public                                                                                                             | Iowa State University                      |                    | 145,241                    | 0                              | 83                           | 56                           | 125,607                    | 0                              | 91                           | 63                           |
| Private                                                                                                            | Johns Hopkins University                   | Yes                | 2,246,705                  | 472,304                        | 1                            | 1                            | 2,173,734                  | 464,346                        | 1                            | 1                            |
| Public                                                                                                             | Kansas State University                    |                    | 77,730                     | 0                              | 125                          | 102                          | 72,321                     | 0                              | 123                          | 101                          |
| Public                                                                                                             | Louisiana State University - Baton Rouge   |                    | 83,453                     | 0                              | 121                          | 97                           | 80,044                     | 0                              | 120                          | 97                           |
| Private                                                                                                            | Massachusetts Institute of Technology      |                    | 476,576                    | 0                              | 20                           | 6                            | 484,597                    | 0                              | 16                           | 5                            |
| Public                                                                                                             | Michigan State University                  | Yes                | 315,674                    | 18,330                         | 40                           | 21                           | 329,533                    | 14,707                         | 34                           | 19                           |
| Public                                                                                                             | Mississippi State University               |                    | 88,365                     | 0                              | 112                          | 89                           | 87,435                     | 0                              | 111                          | 89                           |
| Public                                                                                                             | Montana State University - Bozeman         |                    | 67,705                     | 0                              | 131                          | 108                          | 66,449                     | 0                              | 129                          | 107                          |
| Public                                                                                                             | Naval Postgraduate School                  |                    | 41,151                     | 0                              | 163                          | 141                          | 42,246                     | 0                              | 158                          | 137                          |
| Public                                                                                                             | New Jersey Institute of Technology         |                    | 78,313                     | 0                              | 124                          | 101                          | 64,840                     | 0                              | 132                          | 109                          |
| Public                                                                                                             | New Mexico State University - Las Cruces   |                    | 53,417                     | 0                              | 148                          | 124                          | 59,087                     | 0                              | 136                          | 114                          |
| Private                                                                                                            | New York University                        | Yes                | 395,445                    | 273,585                        | 26                           | 67                           | 369,947                    | 245,133                        | 27                           | 64                           |
| Public                                                                                                             | North Carolina State University            |                    | 214,440                    | 0                              | 61                           | 39                           | 213,544                    | 0                              | 60                           | 37                           |
| Private                                                                                                            | Northeastern University                    |                    | 109,443                    | 0                              | 99                           | 75                           | 90,190                     | 0                              | 108                          | 87                           |
| Private                                                                                                            | Northwestern University                    | Yes                | 464,689                    | 281,468                        | 21                           | 42                           | 438,732                    | 262,514                        | 22                           | 42                           |
| Public                                                                                                             | Ohio State University - Columbus           | Yes                | 439,594                    | 50,469                         | 24                           | 11                           | 427,154                    | 47,443                         | 24                           | 10                           |
| Public                                                                                                             | Oklahoma State University - Stillwater     |                    | 40,052                     | 0                              | 164                          | 142                          | 42,331                     | 0                              | 157                          | 136                          |
| Public                                                                                                             | Oregon State University                    |                    | 166,354                    | 0                              | 77                           | 49                           | 157,708                    | 0                              | 76                           | 49                           |
| Public                                                                                                             | Pennsylvania State University - Univ. Park |                    | 501,784                    | 0                              | 17                           | 4                            | 477,111                    | 0                              | 18                           | 6                            |
| Private                                                                                                            | Princeton University                       |                    | 179,659                    | 0                              | 71                           | 44                           | 175,485                    | 0                              | 72                           | 43                           |
| Public                                                                                                             | Purdue University - West Lafayette         |                    | 230,208                    | 0                              | 59                           | 36                           | 224,965                    | 0                              | 55                           | 31                           |
| Private                                                                                                            | Rensselaer Polytechnic Institute           |                    | 46,385                     | 0                              | 156                          | 133                          | 47,749                     | 0                              | 153                          | 129                          |

# The Top American Research Universities

| 2016<br>Federal<br>(x1000) | 2016<br>AAMC<br>Fed<br>(x1000) | 2016<br>Rank<br>Incl<br>AAMC | 2016<br>Rank<br>Excl<br>AAMC | 2015<br>Federal<br>(x1000) | 2015<br>AAMC<br>Fed<br>(x1000) | 2015<br>Rank<br>Incl<br>AAMC | 2015<br>Rank<br>Excl<br>AAMC | 2014<br>Federal<br>(x1000) | 2014<br>AAMC<br>Fed<br>(x1000) | 2014<br>Rank<br>Incl<br>AAMC | 2014<br>Rank<br>Excl<br>AAMC |
|----------------------------|--------------------------------|------------------------------|------------------------------|----------------------------|--------------------------------|------------------------------|------------------------------|----------------------------|--------------------------------|------------------------------|------------------------------|
| 200,280                    | 0                              | 59                           | 36                           | 186,890                    | 0                              | 65                           | 39                           | 186,126                    | 0                              | 65                           | 38                           |
| 54,258                     | 0                              | 141                          | 119                          | 47,939                     | 0                              | 149                          | 125                          | 49,739                     | 0                              | 149                          | 126                          |
| 50,294                     | 27,203                         | 149                          | 175                          | 50,585                     | 23,589                         | 144                          | 160                          | 47,771                     | 27,219                         | 151                          | 185                          |
| 250,523                    | 97,570                         | 47                           | 48                           | 256,562                    | 113,968                        | 49                           | 52                           | 254,285                    | 115,773                        | 48                           | 51                           |
| 131,751                    | 41,734                         | 84                           | 84                           | 127,886                    | 41,467                         | 83                           | 83                           | 125,005                    | 37,446                         | 84                           | 87                           |
| 260,489                    | 0                              | 45                           | 23                           | 269,156                    | 0                              | 44                           | 23                           | 276,447                    | 0                              | 42                           | 22                           |
| 190,620                    | 0                              | 64                           | 40                           | 187,259                    | 0                              | 64                           | 38                           | 198,247                    | 0                              | 61                           | 34                           |
| 320,402                    | 263,290                        | 35                           | 117                          | 307,960                    | 251,043                        | 36                           | 117                          | 328,548                    | 265,930                        | 29                           | 112                          |
| 52,184                     | 0                              | 142                          | 121                          | 45,292                     | 0                              | 153                          | 130                          | 44,673                     | 0                              | 155                          | 132                          |
| 49,659                     | 0                              | 151                          | 126                          | 41,721                     | 0                              | 157                          | 133                          | 44,139                     | 0                              | 156                          | 133                          |
| 50,478                     | 0                              | 147                          | 125                          | 49,063                     | 0                              | 148                          | 124                          | 41,845                     | 0                              | 158                          | 134                          |
| 227,624                    | 0                              | 52                           | 30                           | 213,685                    | 0                              | 54                           | 32                           | 206,958                    | 0                              | 56                           | 33                           |
| 585,578                    | 275,404                        | 9                            | 17                           | 577,833                    | 275,830                        | 7                            | 18                           | 591,523                    | 277,143                        | 8                            | 15                           |
| 280,461                    | 0                              | 42                           | 19                           | 277,163                    | 0                              | 41                           | 20                           | 299,320                    | 0                              | 36                           | 20                           |
| 138,641                    | 92,734                         | 81                           | 130                          | 145,807                    | 92,511                         | 79                           | 121                          | 145,080                    | 94,250                         | 76                           | 124                          |
| 65,193                     | 28,158                         | 131                          | 142                          | 67,226                     | 24,660                         | 127                          | 132                          | 75,557                     | 9,434                          | 122                          | 108                          |
| 574,738                    | 335,765                        | 11                           | 28                           | 558,566                    | 318,274                        | 9                            | 27                           | 556,847                    | 318,028                        | 10                           | 28                           |
| 360,197                    | 205,575                        | 26                           | 46                           | 346,534                    | 199,294                        | 25                           | 50                           | 329,254                    | 199,084                        | 27                           | 54                           |
| 68,539                     | 2,682                          | 129                          | 106                          | 67,293                     | 2,595                          | 126                          | 108                          | 68,946                     | 1,769                          | 126                          | 106                          |
| 118,294                    | 5,567                          | 94                           | 67                           | 133,569                    | 4,855                          | 82                           | 56                           | 140,995                    | 3,413                          | 79                           | 52                           |
| 50,687                     | 0                              | 144                          | 122                          | 54,113                     | 0                              | 140                          | 120                          | 53,775                     | 0                              | 143                          | 120                          |
| 138,735                    | 21,081                         | 80                           | 64                           | 135,667                    | 19,172                         | 81                           | 66                           | 139,148                    | 17,636                         | 82                           | 58                           |
| 82,819                     | 67,726                         | 115                          | 207                          | 87,268                     | 74,601                         | 105                          | 219                          | 99,567                     | 82,261                         | 103                          | 204                          |
| 567,100                    | 0                              | 12                           | 2                            | 548,063                    | 0                              | 11                           | 2                            | 510,422                    | 0                              | 14                           | 2                            |
| 40,897                     | 0                              | 161                          | 135                          | 36,843                     | 0                              | 164                          | 137                          | 29,470                     | 0                              | 182                          | 153                          |
| 549,539                    | 163,758                        | 13                           | 8                            | 530,382                    | 153,831                        | 13                           | 8                            | 554,944                    | 170,892                        | 11                           | 8                            |
| 216,917                    | 116,863                        | 55                           | 72                           | 206,263                    | 108,460                        | 57                           | 73                           | 80,109                     | 0                              | 117                          | 93                           |
| 124,242                    | 0                              | 89                           | 59                           | 113,443                    | 0                              | 95                           | 69                           | 115,285                    | 0                              | 91                           | 62                           |
| 2,100,097                  | 471,932                        | 1                            | 1                            | 1,988,993                  | 445,116                        | 1                            | 1                            | 1,936,953                  | 443,740                        | 1                            | 1                            |
| 67,863                     | 0                              | 130                          | 102                          | 66,632                     | 0                              | 128                          | 106                          | 64,565                     | 0                              | 129                          | 109                          |
| 84,954                     | 0                              | 113                          | 90                           | 82,276                     | 0                              | 113                          | 89                           | 93,584                     | 0                              | 105                          | 79                           |
| 501,702                    | 0                              | 15                           | 4                            | 486,650                    | 0                              | 15                           | 4                            | 480,991                    | 0                              | 16                           | 4                            |
| 294,369                    | 9,749                          | 38                           | 18                           | 256,228                    | 9,194                          | 50                           | 26                           | 247,970                    | 14,634                         | 49                           | 29                           |
| 86,570                     | 0                              | 111                          | 87                           | 79,181                     | 0                              | 116                          | 92                           | 70,615                     | 0                              | 125                          | 102                          |
| 61,490                     | 0                              | 135                          | 112                          | 62,827                     | 0                              | 132                          | 109                          | 66,770                     | 0                              | 128                          | 107                          |
| 50,560                     | 0                              | 146                          | 124                          | 71,987                     | 0                              | 123                          | 101                          | 89,284                     | 0                              | 109                          | 84                           |
| 63,322                     | 0                              | 132                          | 108                          | 50,554                     | 0                              | 145                          | 122                          | 51,853                     | 0                              | 146                          | 123                          |
| 61,494                     | 0                              | 134                          | 111                          | 78,253                     | 0                              | 120                          | 96                           | 80,247                     | 0                              | 116                          | 92                           |
| 332,483                    | 224,016                        | 33                           | 68                           | 326,691                    | 212,823                        | 32                           | 68                           | 314,712                    | 204,375                        | 31                           | 67                           |
| 197,261                    | 0                              | 61                           | 37                           | 196,058                    | 0                              | 60                           | 36                           | 177,722                    | 0                              | 70                           | 41                           |
| 78,668                     | 0                              | 120                          | 94                           | 78,379                     | 0                              | 119                          | 95                           | 77,401                     | 0                              | 120                          | 97                           |
| 424,638                    | 250,143                        | 21                           | 41                           | 385,868                    | 232,322                        | 24                           | 48                           | 385,888                    | 224,480                        | 24                           | 46                           |
| 418,887                    | 48,670                         | 22                           | 9                            | 406,941                    | 49,761                         | 22                           | 9                            | 416,177                    | 54,055                         | 21                           | 9                            |
| 41,186                     | 0                              | 160                          | 134                          | 38,498                     | 0                              | 160                          | 136                          | 36,687                     | 0                              | 163                          | 139                          |
| 156,437                    | 0                              | 74                           | 45                           | 150,625                    | 0                              | 77                           | 49                           | 143,815                    | 0                              | 77                           | 50                           |
| 463,244                    | 0                              | 18                           | 6                            | 447,956                    | 0                              | 19                           | 5                            | 461,896                    | 0                              | 18                           | 5                            |
| 161,562                    | 0                              | 73                           | 44                           | 157,867                    | 0                              | 75                           | 47                           | 163,805                    | 0                              | 72                           | 44                           |
| 214,373                    | 0                              | 56                           | 33                           | 209,005                    | 0                              | 56                           | 34                           | 227,857                    | 0                              | 53                           | 30                           |
| 48,887                     | 0                              | 153                          | 127                          | 59,417                     | 0                              | 136                          | 114                          | 58,940                     | 0                              | 136                          | 115                          |

### Federal Research with and without Medical School Research

| Institutions with Over \$40 Million<br>in Federal Research excluding Standalone<br>Medical Schools, Alphabetically |                                             | AAMC<br>Med School | 2018<br>Federal<br>(x1000) | 2018<br>AAMC<br>Fed<br>(x1000) | 2018<br>Rank<br>Incl<br>AAMC | 2018<br>Rank<br>Excl<br>AAMC | 2017<br>Federal<br>(x1000) | 2017<br>AAMC<br>Fed<br>(x1000) | 2017<br>Rank<br>Incl<br>AAMC | 2017<br>Rank<br>Excl<br>AAMC |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------|----------------------------|--------------------------------|------------------------------|------------------------------|----------------------------|--------------------------------|------------------------------|------------------------------|
| Private                                                                                                            | Rice University                             |                    | 77,607                     | 0                              | 126                          | 103                          | 83,894                     | 0                              | 117                          | 93                           |
| Private                                                                                                            | Rockefeller University                      |                    | 87,231                     | 0                              | 116                          | 92                           | 86,763                     | 0                              | 112                          | 90                           |
| Public                                                                                                             | Rutgers University - New Brunswick          | Yes                | 330,823                    | 54,276                         | 36                           | 26                           | 316,118                    | 53,043                         | 37                           | 25                           |
| Private                                                                                                            | Scripps Research Institute                  |                    | 267,088                    | 0                              | 48                           | 29                           | 250,090                    | 0                              | 48                           | 28                           |
| Private                                                                                                            | Stanford University                         | Yes                | 685,871                    | 466,092                        | 4                            | 38                           | 684,928                    | 460,584                        | 4                            | 32                           |
| Public                                                                                                             | State Univ. of New York - Polytechnic Inst. |                    | 41,753                     | 0                              | 162                          | 140                          | 41,247                     | 0                              | 161                          | 140                          |
| Public                                                                                                             | Stony Brook University                      | Yes                | 134,802                    | 49,874                         | 89                           | 94                           | 125,150                    | 48,653                         | 92                           | 100                          |
| Public                                                                                                             | Temple University                           | Yes                | 141,505                    | 59,471                         | 87                           | 98                           | 143,636                    | 62,623                         | 82                           | 96                           |
| Public                                                                                                             | Texas A&M University - College Station      | Yes                | 316,771                    | 18,189                         | 39                           | 19                           | 294,602                    | 14,859                         | 41                           | 21                           |
| Private                                                                                                            | Tufts University                            | Yes                | 128,404                    | 36,727                         | 93                           | 86                           | 138,004                    | 37,686                         | 85                           | 79                           |
| Private                                                                                                            | Tulane University                           | Yes                | 102,090                    | 26,427                         | 104                          | 104                          | 93,747                     | 21,923                         | 106                          | 102                          |
| Public                                                                                                             | University at Albany                        |                    | 84,561                     | 0                              | 120                          | 95                           | 82,551                     | 0                              | 119                          | 95                           |
| Public                                                                                                             | University at Buffalo                       | Yes                | 183,124                    | 29,810                         | 69                           | 53                           | 184,313                    | 29,782                         | 68                           | 50                           |
| Public                                                                                                             | University of Alabama - Birmingham          | Yes                | 370,401                    | 228,904                        | 30                           | 60                           | 356,303                    | 209,223                        | 31                           | 55                           |
| Public                                                                                                             | University of Alabama - Huntsville          |                    | 74,315                     | 0                              | 129                          | 106                          | 68,259                     | 0                              | 128                          | 106                          |
| Public                                                                                                             | University of Alaska - Fairbanks            |                    | 93,562                     | 0                              | 106                          | 84                           | 95,467                     | 0                              | 105                          | 83                           |
| Public                                                                                                             | University of Arizona                       | Yes                | 287,852                    | 56,799                         | 45                           | 35                           | 269,201                    | 50,031                         | 45                           | 35                           |
| Public                                                                                                             | University of Arkansas - Fayetteville       |                    | 48,288                     | 0                              | 154                          | 130                          | 42,198                     | 0                              | 159                          | 138                          |
| Public                                                                                                             | University of California - Berkeley         |                    | 324,521                    | 0                              | 38                           | 17                           | 326,548                    | 0                              | 35                           | 16                           |
| Public                                                                                                             | University of California - Davis            | Yes                | 354,823                    | 103,304                        | 31                           | 31                           | 337,995                    | 87,371                         | 33                           | 27                           |
| Public                                                                                                             | University of California - Irvine           | Yes                | 192,182                    | 54,160                         | 66                           | 61                           | 178,789                    | 50,305                         | 71                           | 61                           |
| Public                                                                                                             | University of California - Los Angeles      | Yes                | 557,986                    | 271,951                        | 14                           | 23                           | 479,799                    | 260,203                        | 17                           | 34                           |
| Public                                                                                                             | University of California - Riverside        | Yes                | 75,990                     | 3,667                          | 128                          | 107                          | 75,920                     | 5,798                          | 122                          | 104                          |
| Public                                                                                                             | University of California - San Diego        | Yes                | 634,676                    | 349,882                        | 12                           | 24                           | 639,643                    | 338,575                        | 7                            | 20                           |
| Public                                                                                                             | University of California - Santa Barbara    |                    | 110,065                    | 0                              | 98                           | 73                           | 113,173                    | 0                              | 95                           | 69                           |
| Public                                                                                                             | University of California - Santa Cruz       |                    | 62,218                     | 0                              | 137                          | 112                          | 65,133                     | 0                              | 131                          | 108                          |
| Public                                                                                                             | University of Central Florida               | Yes                | 89,504                     | 5,250                          | 109                          | 96                           | 82,777                     | 5,385                          | 118                          | 99                           |
| Private                                                                                                            | University of Chicago                       | Yes                | 297,824                    | 170,847                        | 44                           | 64                           | 302,361                    | 175,599                        | 40                           | 62                           |
| Public                                                                                                             | University of Cincinnati - Cincinnati       | Yes                | 246,400                    | 75,881                         | 53                           | 48                           | 239,659                    | 76,341                         | 51                           | 48                           |
| Public                                                                                                             | University of Colorado - Boulder            |                    | 376,870                    | 0                              | 29                           | 12                           | 359,462                    | 0                              | 30                           | 14                           |
| Public                                                                                                             | Univ. of Colorado - Denver/Anschutz Med.    | Yes                | 326,254                    | 191,546                        | 37                           | 62                           | 305,473                    | 173,982                        | 39                           | 60                           |
| Public                                                                                                             | University of Connecticut - Storrs          |                    | 88,586                     | 0                              | 111                          | 88                           | 99,884                     | 0                              | 104                          | 81                           |
| Private                                                                                                            | University of Dayton                        |                    | 130,488                    | 0                              | 91                           | 63                           | 112,584                    | 0                              | 97                           | 71                           |
| Public                                                                                                             | University of Delaware                      |                    | 113,582                    | 0                              | 96                           | 70                           | 113,031                    | 0                              | 96                           | 70                           |
| Public                                                                                                             | University of Florida                       | Yes                | 340,725                    | 119,864                        | 34                           | 37                           | 314,187                    | 109,751                        | 38                           | 39                           |
| Public                                                                                                             | University of Georgia                       |                    | 144,926                    | 0                              | 84                           | 57                           | 153,279                    | 0                              | 78                           | 51                           |
| Public                                                                                                             | University of Hawaii - Manoa                | Yes                | 166,398                    | 18,507                         | 76                           | 55                           | 181,750                    | 17,652                         | 69                           | 47                           |
| Public                                                                                                             | University of Houston - University Park     |                    | 62,134                     | 0                              | 138                          | 113                          | 57,263                     | 0                              | 137                          | 117                          |
| Public                                                                                                             | University of Idaho                         |                    | 47,475                     | 0                              | 155                          | 131                          | 48,879                     | 0                              | 152                          | 128                          |
| Public                                                                                                             | University of Illinois - Chicago            | Yes                | 189,322                    | 87,927                         | 68                           | 80                           | 188,730                    | 85,213                         | 67                           | 77                           |
| Public                                                                                                             | University of Illinois - Urbana-Champaign   |                    | 339,732                    | 0                              | 35                           | 15                           | 344,657                    | 0                              | 32                           | 15                           |
| Public                                                                                                             | University of Iowa                          | Yes                | 243,216                    | 92,819                         | 57                           | 54                           | 236,679                    | 89,205                         | 52                           | 54                           |
| Public                                                                                                             | University of Kansas - Lawrence             |                    | 85,397                     | 0                              | 119                          | 93                           | 85,807                     | 0                              | 113                          | 91                           |
| Public                                                                                                             | University of Kentucky                      | Yes                | 168,968                    | 59,140                         | 73                           | 74                           | 168,347                    | 53,935                         | 73                           | 67                           |
| Public                                                                                                             | University of Louisville                    | Yes                | 77,281                     | 51,375                         | 127                          | 172                          | 69,722                     | 44,958                         | 126                          | 173                          |
| Public                                                                                                             | University of Maine - Orono                 |                    | 45,206                     | 0                              | 157                          | 135                          | 37,189                     | 0                              | 166                          | 144                          |
| Public                                                                                                             | University of Maryland - Baltimore County   |                    | 52,934                     | 0                              | 149                          | 125                          | 52,008                     | 0                              | 147                          | 127                          |
| Public                                                                                                             | University of Maryland - College Park       |                    | 351,952                    | 0                              | 32                           | 14                           | 361,269                    | 0                              | 29                           | 13                           |
| Public                                                                                                             | University of Massachusetts - Amherst       |                    | 103,555                    | 0                              | 103                          | 77                           | 101,992                    | 0                              | 102                          | 78                           |

# The Top American Research Universities

| 2016<br>Federal<br>(x1000) | 2016<br>AAMC<br>Fed<br>(x1000) | 2016<br>Rank<br>Incl<br>AAMC | 2016<br>Rank<br>Excl<br>AAMC | 2015<br>Federal<br>(x1000) | 2015<br>AAMC<br>Fed<br>(x1000) | 2015<br>Rank<br>Incl<br>AAMC | 2015<br>Rank<br>Excl<br>AAMC | 2014<br>Federal<br>(x1000) | 2014<br>AAMC<br>Fed<br>(x1000) | 2014<br>Rank<br>Incl<br>AAMC | 2014<br>Rank<br>Excl<br>AAMC |
|----------------------------|--------------------------------|------------------------------|------------------------------|----------------------------|--------------------------------|------------------------------|------------------------------|----------------------------|--------------------------------|------------------------------|------------------------------|
| 82,643                     | 0                              | 116                          | 91                           | 73,817                     | 0                              | 122                          | 100                          | 73,782                     | 0                              | 124                          | 101                          |
| 80,667                     | 0                              | 117                          | 92                           | 81,949                     | 0                              | 114                          | 91                           | 81,820                     | 0                              | 114                          | 89                           |
| 318,123                    | 49,191                         | 36                           | 21                           | 320,311                    | 47,981                         | 35                           | 22                           | 355,116                    | 42,392                         | 25                           | 17                           |
| 242,489                    | 0                              | 48                           | 27                           | 274,097                    | 0                              | 42                           | 21                           | 292,268                    | 0                              | 37                           | 21                           |
| 668,578                    | 433,557                        | 4                            | 29                           | 645,633                    | 411,680                        | 4                            | 28                           | 608,342                    | 366,231                        | 4                            | 27                           |
| 21,380                     | 0                              | 209                          | 185                          | 14,641                     | 0                              | 233                          | 207                          | 21,208                     | 0                              | 209                          | 818                          |
| 118,296                    | 46,827                         | 93                           | 100                          | 115,031                    | 47,049                         | 93                           | 104                          | 111,386                    | 51,367                         | 97                           | 114                          |
| 134,132                    | 57,156                         | 83                           | 96                           | 119,945                    | 52,951                         | 89                           | 105                          | 118,892                    | 43,055                         | 89                           | 99                           |
| 281,015                    | 15,533                         | 41                           | 22                           | 291,714                    | 14,231                         | 38                           | 19                           | 266,877                    | 0                              | 45                           | 23                           |
| 124,363                    | 33,688                         | 88                           | 83                           | 120,181                    | 33,781                         | 88                           | 84                           | 115,046                    | 35,588                         | 92                           | 94                           |
| 89,028                     | 22,385                         | 108                          | 104                          | 84,143                     | 23,605                         | 109                          | 112                          | 94,287                     | 25,285                         | 104                          | 104                          |
| 74,092                     | 0                              | 122                          | 98                           | 78,824                     | 0                              | 118                          | 94                           | 104,861                    | 0                              | 99                           | 72                           |
| 180,095                    | 28,377                         | 68                           | 49                           | 174,146                    | 27,092                         | 70                           | 51                           | 185,144                    | 28,169                         | 66                           | 48                           |
| 346,190                    | 200,079                        | 28                           | 50                           | 325,008                    | 184,555                        | 33                           | 53                           | 276,112                    | 170,690                        | 44                           | 71                           |
| 68,882                     | 0                              | 128                          | 101                          | 66,564                     | 0                              | 130                          | 107                          | 73,913                     | 0                              | 123                          | 100                          |
| 87,829                     | 0                              | 110                          | 86                           | 78,985                     | 0                              | 117                          | 93                           | 83,483                     | 0                              | 113                          | 88                           |
| 259,443                    | 44,579                         | 46                           | 32                           | 265,878                    | 42,269                         | 46                           | 31                           | 286,595                    | 41,933                         | 38                           | 25                           |
| 39,527                     | 0                              | 162                          | 136                          | 33,486                     | 0                              | 170                          | 146                          | 26,014                     | 0                              | 192                          | 162                          |
| 338,562                    | 0                              | 31                           | 14                           | 342,042                    | 0                              | 26                           | 11                           | 309,305                    | 0                              | 33                           | 18                           |
| 334,534                    | 81,256                         | 32                           | 25                           | 322,919                    | 89,513                         | 34                           | 29                           | 327,697                    | 85,100                         | 30                           | 26                           |
| 170,674                    | 47,567                         | 71                           | 60                           | 170,622                    | 48,250                         | 72                           | 59                           | 180,431                    | 53,617                         | 69                           | 55                           |
| 479,718                    | 267,024                        | 17                           | 34                           | 482,771                    | 276,847                        | 16                           | 35                           | 458,157                    | 268,928                        | 19                           | 36                           |
| 69,924                     | 5,341                          | 125                          | 107                          | 62,642                     | 2,737                          | 133                          | 113                          | 56,327                     | 2,600                          | 137                          | 121                          |
| 602,336                    | 325,443                        | 8                            | 20                           | 601,184                    | 245,930                        | 5                            | 10                           | 597,270                    | 246,807                        | 7                            | 12                           |
| 114,884                    | 0                              | 95                           | 66                           | 114,596                    | 0                              | 94                           | 67                           | 119,816                    | 0                              | 87                           | 60                           |
| 93,651                     | 0                              | 104                          | 81                           | 91,249                     | 0                              | 104                          | 81                           | 89,206                     | 0                              | 110                          | 85                           |
| 80,365                     | 4,821                          | 118                          | 97                           | 81,788                     | 5,022                          | 115                          | 97                           | 64,323                     | 7,590                          | 130                          | 117                          |
| 293,557                    | 176,108                        | 39                           | 65                           | 290,776                    | 180,683                        | 39                           | 70                           | 276,237                    | 168,641                        | 43                           | 68                           |
| 229,761                    | 75,839                         | 51                           | 47                           | 250,457                    | 73,101                         | 51                           | 43                           | 243,705                    | 82,031                         | 51                           | 45                           |
| 360,827                    | 0                              | 25                           | 10                           | 341,828                    | 0                              | 27                           | 12                           | 302,877                    | 0                              | 34                           | 19                           |
| 289,757                    | 161,098                        | 40                           | 55                           | 266,147                    | 144,216                        | 45                           | 60                           | 277,209                    | 156,914                        | 41                           | 59                           |
| 99,926                     | 0                              | 101                          | 73                           | 91,837                     | 0                              | 103                          | 80                           | 80,317                     | 0                              | 115                          | 91                           |
| 97,635                     | 0                              | 102                          | 75                           | 74,548                     | 0                              | 121                          | 99                           | 63,881                     | 0                              | 131                          | 110                          |
| 108,378                    | 0                              | 98                           | 69                           | 109,258                    | 0                              | 97                           | 71                           | 111,933                    | 0                              | 96                           | 65                           |
| 297,267                    | 101,547                        | 37                           | 38                           | 281,317                    | 97,378                         | 40                           | 40                           | 279,920                    | 96,651                         | 40                           | 40                           |
| 138,374                    | 0                              | 82                           | 53                           | 127,825                    | 0                              | 84                           | 57                           | 122,145                    | 0                              | 85                           | 57                           |
| 189,683                    | 17,442                         | 65                           | 42                           | 199,818                    | 16,432                         | 58                           | 41                           | 202,574                    | 18,479                         | 59                           | 39                           |
| 58,085                     | 0                              | 138                          | 115                          | 54,516                     | 0                              | 139                          | 119                          | 55,574                     | 0                              | 138                          | 118                          |
| 50,083                     | 0                              | 150                          | 809                          | 49,591                     | 0                              | 147                          | 123                          | 49,423                     | 0                              | 150                          | 127                          |
| 175,302                    | 74,872                         | 69                           | 71                           | 192,930                    | 74,506                         | 61                           | 64                           | 201,646                    | 83,250                         | 60                           | 61                           |
| 320,703                    | 0                              | 34                           | 16                           | 330,479                    | 0                              | 30                           | 16                           | 336,172                    | 0                              | 26                           | 13                           |
| 236,363                    | 93,873                         | 49                           | 52                           | 223,730                    | 86,255                         | 53                           | 54                           | 234,122                    | 99,673                         | 52                           | 53                           |
| 79,916                     | 0                              | 119                          | 93                           | 85,862                     | 0                              | 107                          | 85                           | 88,725                     | 0                              | 111                          | 86                           |
| 152,708                    | 51,723                         | 77                           | 70                           | 145,097                    | 49,066                         | 80                           | 76                           | 140,450                    | 47,963                         | 80                           | 81                           |
| 69,781                     | 42,716                         | 126                          | 160                          | 66,100                     | 43,342                         | 131                          | 177                          | 63,258                     | 39,871                         | 132                          | 171                          |
| 34,125                     | 0                              | 170                          | 147                          | 35,033                     | 0                              | 167                          | 143                          | 50,338                     | 0                              | 148                          | 125                          |
| 50,645                     | 0                              | 145                          | 123                          | 47,591                     | 0                              | 150                          | 126                          | 46,993                     | 0                              | 152                          | 129                          |
| 354,788                    | 0                              | 27                           | 12                           | 332,079                    | 0                              | 28                           | 14                           | 328,828                    | 0                              | 28                           | 14                           |
| 97,576                     | 0                              | 103                          | 76                           | 97,206                     | 0                              | 101                          | 74                           | 102,682                    | 0                              | 101                          | 74                           |

| Federal Research with and without Medical School Research                                                          |                                            |                    |                            |                                |                              |                              |                            |                                |                              |                              |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------|----------------------------|--------------------------------|------------------------------|------------------------------|----------------------------|--------------------------------|------------------------------|------------------------------|
| Institutions with Over \$40 Million<br>in Federal Research excluding Standalone<br>Medical Schools, Alphabetically |                                            | AAMC<br>Med School | 2018<br>Federal<br>(x1000) | 2018<br>AAMC<br>Fed<br>(x1000) | 2018<br>Rank<br>Incl<br>AAMC | 2018<br>Rank<br>Excl<br>AAMC | 2017<br>Federal<br>(x1000) | 2017<br>AAMC<br>Fed<br>(x1000) | 2017<br>Rank<br>Incl<br>AAMC | 2017<br>Rank<br>Excl<br>AAMC |
| Private                                                                                                            | University of Miami                        | Yes                | 191,408                    | 141,541                        | 67                           | 128                          | 193,549                    | 109,757                        | 64                           | 94                           |
| Public                                                                                                             | University of Michigan - Ann Arbor         | Yes                | 841,158                    | 354,099                        | 3                            | 5                            | 822,436                    | 330,023                        | 3                            | 4                            |
| Public                                                                                                             | University of Minnesota - Twin Cities      | Yes                | 455,294                    | 132,660                        | 23                           | 18                           | 448,814                    | 125,588                        | 20                           | 17                           |
| Public                                                                                                             | University of Missouri - Columbia          | Yes                | 108,254                    | 13,823                         | 100                          | 83                           | 106,804                    | 12,023                         | 100                          | 85                           |
| Public                                                                                                             | University of Montana - Missoula           |                    | 51,975                     | 0                              | 150                          | 126                          | 44,465                     | 0                              | 155                          | 132                          |
| Public                                                                                                             | University of Nebraska - Lincoln           |                    | 102,078                    | 0                              | 105                          | 78                           | 99,956                     | 0                              | 103                          | 80                           |
| Public                                                                                                             | University of Nevada - Reno                | Yes                | 59,879                     | 16,268                         | 140                          | 136                          | 53,438                     | 13,971                         | 144                          | 142                          |
| Public                                                                                                             | University of New Hampshire - Durham       |                    | 87,854                     | 0                              | 115                          | 91                           | 85,714                     | 0                              | 114                          | 92                           |
| Public                                                                                                             | University of New Mexico - Albuquerque     | Yes                | 167,315                    | 56,947                         | 74                           | 72                           | 159,583                    | 52,671                         | 75                           | 76                           |
| Public                                                                                                             | University of North Carolina - Chapel Hill | Yes                | 681,581                    | 277,044                        | 5                            | 8                            | 657,879                    | 265,721                        | 5                            | 9                            |
| Public                                                                                                             | University of North Dakota                 | Yes                | 48,858                     | 11,272                         | 152                          | 146                          | 40,845                     | 10,689                         | 162                          | 153                          |
| Private                                                                                                            | University of Notre Dame                   |                    | 92,144                     | 0                              | 108                          | 85                           | 90,038                     | 0                              | 109                          | 88                           |
| Public                                                                                                             | University of Oklahoma - Norman            |                    | 87,989                     | 0                              | 114                          | 90                           | 70,348                     | 0                              | 124                          | 103                          |
| Public                                                                                                             | University of Oregon                       |                    | 56,403                     | 0                              | 143                          | 120                          | 57,092                     | 0                              | 138                          | 118                          |
| Private                                                                                                            | University of Pennsylvania                 | Yes                | 671,796                    | 397,175                        | 7                            | 27                           | 653,405                    | 395,147                        | 6                            | 26                           |
| Public                                                                                                             | University of Pittsburgh - Pittsburgh      | Yes                | 643,129                    | 411,114                        | 11                           | 34                           | 612,754                    | 390,880                        | 10                           | 33                           |
| Public                                                                                                             | University of Rhode Island                 |                    | 61,135                     | 0                              | 139                          | 116                          | 59,623                     | 0                              | 135                          | 113                          |
| Private                                                                                                            | University of Rochester                    | Yes                | 283,973                    | 141,070                        | 46                           | 59                           | 267,040                    | 133,394                        | 46                           | 59                           |
| Public                                                                                                             | University of South Carolina - Columbia    | Yes                | 88,117                     | 9,087                          | 113                          | 99                           | 89,565                     | 10,123                         | 110                          | 98                           |
| Public                                                                                                             | University of South Florida - Tampa        | Yes                | 245,414                    | 71,876                         | 54                           | 46                           | 234,871                    | 68,276                         | 53                           | 45                           |
| Private                                                                                                            | University of Southern California          | Yes                | 488,081                    | 193,397                        | 19                           | 22                           | 436,515                    | 170,450                        | 23                           | 24                           |
| Public                                                                                                             | University of Tennessee - Knoxville        |                    | 143,406                    | 0                              | 85                           | 58                           | 142,549                    | 0                              | 83                           | 56                           |
| Public                                                                                                             | University of Texas - Austin               | Yes                | 386,954                    | 10,336                         | 28                           | 13                           | 377,389                    | 3,754                          | 26                           | 11                           |
| Public                                                                                                             | University of Texas - El Paso              |                    | 43,214                     | 0                              | 160                          | 137                          | 43,759                     | 0                              | 156                          | 135                          |
| Public                                                                                                             | University of Utah                         | Yes                | 302,586                    | 109,131                        | 41                           | 41                           | 218,405                    | 101,365                        | 56                           | 66                           |
| Public                                                                                                             | University of Vermont                      | Yes                | 86,936                     | 54,153                         | 118                          | 153                          | 78,383                     | 49,284                         | 121                          | 156                          |
| Public                                                                                                             | University of Virginia                     | Yes                | 231,161                    | 132,354                        | 58                           | 82                           | 215,193                    | 120,279                        | 57                           | 84                           |
| Public                                                                                                             | University of Washington - Seattle         | Yes                | 955,518                    | 451,705                        | 2                            | 3                            | 912,856                    | 411,316                        | 2                            | 3                            |
| Public                                                                                                             | University of Wisconsin - Madison          | Yes                | 555,666                    | 142,233                        | 15                           | 7                            | 552,983                    | 137,645                        | 14                           | 7                            |
| Public                                                                                                             | University of Wyoming                      |                    | 42,538                     | 0                              | 161                          | 139                          | 56,178                     | 0                              | 139                          | 119                          |
| Public                                                                                                             | Utah State University                      |                    | 158,576                    | 0                              | 80                           | 52                           | 137,295                    | 0                              | 86                           | 58                           |
| Private                                                                                                            | Vanderbilt University                      | Yes                | 456,599                    | 65,293                         | 22                           | 9                            | 442,669                    | 72,143                         | 21                           | 12                           |
| Public                                                                                                             | Virginia Commonwealth University           | Yes                | 122,771                    | 61,115                         | 95                           | 114                          | 127,341                    | 65,386                         | 90                           | 112                          |
| Public                                                                                                             | Virginia Polytechnic Inst. and State Univ. |                    | 195,140                    | 0                              | 64                           | 40                           | 181,379                    | 0                              | 70                           | 41                           |
| Private                                                                                                            | Wake Forest University                     | Yes                | 154,031                    | 137,238                        | 81                           | 209                          | 147,746                    | 134,374                        | 80                           | 222                          |
| Public                                                                                                             | Washington State University - Pullman      | Yes                | 131,229                    | 8,735                          | 90                           | 66                           | 133,308                    | 10,427                         | 89                           | 65                           |
| Private                                                                                                            | Washington University in St. Louis         | Yes                | 496,648                    | 388,427                        | 18                           | 76                           | 468,637                    | 359,784                        | 19                           | 75                           |
| Public                                                                                                             | Wayne State University                     | Yes                | 107,791                    | 56,223                         | 101                          | 127                          | 106,865                    | 62,628                         | 99                           | 133                          |
| Public                                                                                                             | West Virginia University                   | Yes                | 73,518                     | 14,196                         | 130                          | 117                          | 70,256                     | 12,030                         | 125                          | 115                          |
| Private                                                                                                            | Woods Hole Oceanographic Institution       |                    | 163,003                    | 0                              | 78                           | 50                           | 148,491                    | 0                              | 79                           | 53                           |
| Public                                                                                                             | Wright State University - Dayton           | Yes                | 43,359                     | 8,366                          | 159                          | 148                          | 35,514                     | 7,574                          | 168                          | 162                          |
| Private                                                                                                            | Yale University                            | Yes                | 549,026                    | 422,519                        | 16                           | 65                           | 531,995                    | 393,639                        | 15                           | 57                           |
| Private                                                                                                            | Yeshiva University                         | Yes                | 197,140                    | 178,147                        | 63                           | 199                          | 189,075                    | 171,698                        | 66                           | 203                          |

# The Top American Research Universities

| 2016<br>Federal<br>(x1000) | 2016<br>AAMC<br>Fed<br>(x1000) | 2016<br>Rank<br>Incl<br>AAMC | 2016<br>Rank<br>Excl<br>AAMC | 2015<br>Federal<br>(x1000) | 2015<br>AAMC<br>Fed<br>(x1000) | 2015<br>Rank<br>Incl<br>AAMC | 2015<br>Rank<br>Excl<br>AAMC | 2014<br>Federal<br>(x1000) | 2014<br>AAMC<br>Fed<br>(x1000) | 2014<br>Rank<br>Incl<br>AAMC | 2014<br>Rank<br>Excl<br>AAMC |
|----------------------------|--------------------------------|------------------------------|------------------------------|----------------------------|--------------------------------|------------------------------|------------------------------|----------------------------|--------------------------------|------------------------------|------------------------------|
| 194,346                    | 108,757                        | 62                           | 89                           | 192,691                    | 109,899                        | 62                           | 87                           | 202,818                    | 121,723                        | 58                           | 90                           |
| 780,080                    | 304,267                        | 3                            | 5                            | 728,712                    | 293,618                        | 3                            | 6                            | 733,779                    | 297,638                        | 3                            | 6                            |
| 462,570                    | 131,858                        | 19                           | 15                           | 468,482                    | 135,686                        | 18                           | 13                           | 483,542                    | 121,874                        | 15                           | 10                           |
| 105,125                    | 11,236                         | 99                           | 80                           | 102,852                    | 10,884                         | 99                           | 79                           | 102,784                    | 12,916                         | 100                          | 82                           |
| 38,726                     | 0                              | 163                          | 138                          | 33,617                     | 0                              | 168                          | 144                          | 30,164                     | 0                              | 179                          | 151                          |
| 93,532                     | 0                              | 105                          | 82                           | 94,763                     | 0                              | 102                          | 78                           | 93,190                     | 0                              | 106                          | 80                           |
| 51,630                     | 13,682                         | 143                          | 141                          | 49,977                     | 13,482                         | 146                          | 138                          | 50,904                     | 18,516                         | 147                          | 144                          |
| 89,457                     | 0                              | 107                          | 85                           | 83,106                     | 0                              | 111                          | 86                           | 89,640                     | 0                              | 107                          | 83                           |
| 153,100                    | 57,477                         | 76                           | 78                           | 151,619                    | 54,920                         | 76                           | 75                           | 151,082                    | 50,456                         | 75                           | 75                           |
| 624,131                    | 263,944                        | 6                            | 11                           | 577,574                    | 249,915                        | 8                            | 17                           | 601,933                    | 248,809                        | 6                            | 11                           |
| 42,253                     | 9,576                          | 157                          | 148                          | 37,457                     | 9,318                          | 163                          | 155                          | 40,191                     | 7,813                          | 160                          | 145                          |
| 85,870                     | 0                              | 112                          | 88                           | 82,615                     | 0                              | 112                          | 88                           | 79,192                     | 0                              | 119                          | 95                           |
| 72,153                     | 0                              | 123                          | 99                           | 69,520                     | 0                              | 125                          | 116                          | 53,223                     | 0                              | 145                          | 122                          |
| 55,137                     | 0                              | 140                          | 118                          | 56,448                     | 0                              | 138                          | 118                          | 62,824                     | 0                              | 133                          | 111                          |
| 638,336                    | 385,413                        | 5                            | 26                           | 597,791                    | 370,570                        | 6                            | 30                           | 606,115                    | 380,930                        | 5                            | 31                           |
| 575,281                    | 363,744                        | 10                           | 35                           | 554,658                    | 344,314                        | 10                           | 33                           | 565,409                    | 350,989                        | 9                            | 32                           |
| 58,438                     | 0                              | 137                          | 114                          | 61,085                     | 0                              | 134                          | 111                          | 61,836                     | 0                              | 134                          | 113                          |
| 265,430                    | 140,747                        | 44                           | 58                           | 261,023                    | 141,609                        | 47                           | 63                           | 265,686                    | 153,838                        | 46                           | 66                           |
| 88,231                     | 10,078                         | 109                          | 95                           | 84,723                     | 9,758                          | 108                          | 98                           | 87,844                     | 10,920                         | 112                          | 98                           |
| 210,823                    | 65,998                         | 57                           | 51                           | 196,215                    | 59,162                         | 59                           | 55                           | 205,155                    | 59,544                         | 57                           | 49                           |
| 396,197                    | 142,085                        | 23                           | 24                           | 408,105                    | 149,851                        | 21                           | 24                           | 421,887                    | 155,039                        | 20                           | 24                           |
| 125,528                    | 0                              | 85                           | 56                           | 116,928                    | 0                              | 92                           | 65                           | 122,120                    | 0                              | 86                           | 69                           |
| 340,181                    | 335                            | 30                           | 13                           | 331,388                    | 81                             | 29                           | 15                           | 313,955                    | 0                              | 32                           | 16                           |
| 41,384                     | 0                              | 159                          | 133                          | 40,334                     | 0                              | 158                          | 134                          | 34,528                     | 0                              | 166                          | 141                          |
| 224,270                    | 93,624                         | 53                           | 54                           | 270,311                    | 91,280                         | 43                           | 42                           | 284,125                    | 95,267                         | 39                           | 37                           |
| 83,124                     | 54,441                         | 114                          | 155                          | 83,733                     | 54,792                         | 110                          | 152                          | 79,727                     | 51,878                         | 118                          | 156                          |
| 198,760                    | 101,474                        | 60                           | 77                           | 186,676                    | 96,694                         | 66                           | 82                           | 192,907                    | 89,693                         | 63                           | 73                           |
| 893,050                    | 370,953                        | 2                            | 3                            | 851,573                    | 347,903                        | 2                            | 3                            | 849,713                    | 341,694                        | 2                            | 3                            |
| 548,247                    | 130,592                        | 14                           | 7                            | 506,910                    | 122,693                        | 14                           | 7                            | 522,251                    | 129,396                        | 13                           | 7                            |
| 63,223                     | 0                              | 133                          | 109                          | 47,232                     | 0                              | 151                          | 128                          | 39,778                     | 0                              | 162                          | 136                          |
| 124,981                    | 0                              | 86                           | 57                           | 119,811                    | 0                              | 90                           | 62                           | 114,075                    | 0                              | 93                           | 63                           |
| 395,505                    | 275,177                        | 24                           | 63                           | 390,701                    | 308,597                        | 23                           | 90                           | 408,743                    | 310,219                        | 23                           | 76                           |
| 124,962                    | 58,995                         | 87                           | 105                          | 123,665                    | 52,213                         | 86                           | 102                          | 119,507                    | 51,909                         | 88                           | 105                          |
| 190,975                    | 0                              | 63                           | 39                           | 191,080                    | 0                              | 63                           | 37                           | 198,092                    | 0                              | 62                           | 35                           |
| 140,651                    | 131,030                        | 79                           | 244                          | 148,084                    | 142,284                        | 78                           | 277                          | 153,069                    | 145,964                        | 74                           | 265                          |
| 122,275                    | 0                              | 91                           | 61                           | 121,627                    | 0                              | 87                           | 61                           | 112,568                    | 0                              | 95                           | 64                           |
| 436,229                    | 337,671                        | 20                           | 74                           | 424,723                    | 326,558                        | 20                           | 72                           | 410,115                    | 313,053                        | 22                           | 77                           |
| 109,460                    | 61,442                         | 96                           | 128                          | 108,221                    | 60,982                         | 98                           | 127                          | 112,608                    | 65,542                         | 94                           | 128                          |
| 70,313                     | 12,548                         | 124                          | 116                          | 66,608                     | 7,541                          | 129                          | 115                          | 67,450                     | 10,396                         | 127                          | 116                          |
| 166,010                    | 0                              | 72                           | 43                           | 172,995                    | 0                              | 71                           | 44                           | 177,616                    | 0                              | 71                           | 42                           |
| 30,093                     | 7,190                          | 175                          | 178                          | 26,814                     | 7,440                          | 189                          | 190                          | 27,523                     | 7,440                          | 187                          | 188                          |
| 494,504                    | 373,527                        | 16                           | 62                           | 471,381                    | 343,791                        | 17                           | 58                           | 475,585                    | 349,194                        | 17                           | 56                           |
| 218,787                    | 156,329                        | 54                           | 110                          | 180,791                    | 169,894                        | 69                           | 232                          | 186,885                    | 174,705                        | 64                           | 226                          |



## Part III – The Top 200 Institutions

The following tables list the top 200 universities and colleges on each of the nine performance measures, along with National Merit Scholars. (The Source Notes section provides detailed information on each of the 10 data elements.) Unlike the previous tables in Parts I and II, this section includes data for all academic institutions regardless of their federal research activity level.

*The Center for Measuring University Performance* provides each institution's rank nationally among all universities as well as its rank by institutional control (i.e., rank among private or public peers). In cases where several institutions tie for last place, we use a different cutoff point. For National Academy members, we list all institutions with at least two National Academy members among their faculty. Tables in this section include:

- **2018 Total Research Expenditures**
- **2018 Federal Research Expenditures**
- **2019 Endowment Assets**
- **2019 Annual Giving**
- **2019 National Academy Membership**
- **2019 Faculty Awards**
- **2019 Doctorates Awarded**
- **2018 Postdoctoral Appointees**
- **2018 SAT Scores**
- **2019 National Merit Scholars**

Data found in these tables may not always match the figures published by the original source. *The Center for Measuring University Performance* makes adjustments, when necessary, to ensure that the data reflect the activity at a single campus rather than that of a multiple-campus institution or state university system. When data are missing from the original source, *The Center for Measuring University Performance* may substitute another figure if available. A full discussion of this subject, and the various adjustments or substitutions made to the original data, is in the Data Notes section of this report.

*The Center for Measuring University Performance* presents these tables, along with the prior years' top 200, as Microsoft Excel spreadsheets online at [<http://mup.umass.edu>].

### The Top 200 Institutions – Total Research Expenditures (2018)

| Top 1-50 Institutions in<br>Total Research Expenditures | Total<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|---------------------------------------------------------|-------------------------------|------------------|-----------------|--------------------------|
| Johns Hopkins University                                | 2,656,152                     | 1                | 1               | Private                  |
| University of California - San Francisco                | 1,595,732                     | 2                | 1               | Public                   |
| University of Michigan - Ann Arbor                      | 1,493,353                     | 3                | 2               | Public                   |
| University of Washington - Seattle                      | 1,342,509                     | 4                | 3               | Public                   |
| University of Pennsylvania                              | 1,304,291                     | 5                | 2               | Private                  |
| University of California - San Diego                    | 1,256,171                     | 6                | 4               | Public                   |
| University of California - Los Angeles                  | 1,242,619                     | 7                | 5               | Public                   |
| Duke University                                         | 1,153,947                     | 8                | 3               | Private                  |
| University of Wisconsin - Madison                       | 1,113,968                     | 9                | 6               | Public                   |
| Stanford University                                     | 1,106,314                     | 10               | 4               | Private                  |
| University of North Carolina - Chapel Hill              | 1,094,063                     | 11               | 7               | Public                   |
| Harvard University                                      | 1,066,612                     | 12               | 5               | Private                  |
| University of Pittsburgh - Pittsburgh                   | 995,762                       | 13               | 8               | Public                   |
| Yale University                                         | 972,856                       | 14               | 6               | Private                  |
| University of Texas MD Anderson Cancer Center           | 929,710                       | 15               | 9               | Public                   |
| University of Minnesota - Twin Cities                   | 915,798                       | 16               | 10              | Public                   |
| Columbia University                                     | 908,771                       | 17               | 7               | Private                  |
| Massachusetts Institute of Technology                   | 893,508                       | 18               | 8               | Private                  |
| Texas A&M University - College Station                  | 882,191                       | 19               | 11              | Public                   |
| Georgia Institute of Technology                         | 859,009                       | 20               | 12              | Public                   |
| University of Southern California                       | 854,673                       | 21               | 9               | Private                  |
| University of Florida                                   | 831,362                       | 22               | 13              | Public                   |
| Ohio State University - Columbus                        | 818,428                       | 23               | 14              | Public                   |
| New York University                                     | 801,961                       | 24               | 10              | Private                  |
| Washington University in St. Louis                      | 797,267                       | 25               | 11              | Private                  |
| Pennsylvania State University - University Park         | 783,960                       | 26               | 15              | Public                   |
| Northwestern University                                 | 776,458                       | 27               | 12              | Private                  |
| University of California - Davis                        | 774,775                       | 28               | 16              | Public                   |
| University of California - Berkeley                     | 747,690                       | 29               | 17              | Public                   |
| Vanderbilt University                                   | 702,128                       | 30               | 13              | Private                  |
| Emory University                                        | 693,172                       | 31               | 14              | Private                  |
| Michigan State University                               | 673,959                       | 32               | 18              | Public                   |
| University of Arizona                                   | 672,038                       | 33               | 19              | Public                   |
| Rutgers University - New Brunswick                      | 666,368                       | 34               | 20              | Public                   |
| Icahn School of Medicine at Mount Sinai                 | 640,141                       | 35               | 15              | Private                  |
| Cornell University                                      | 630,255                       | 36               | 16              | Private                  |
| Baylor College of Medicine                              | 623,396                       | 37               | 17              | Private                  |
| University of Texas - Austin                            | 617,567                       | 38               | 21              | Public                   |
| University of Illinois - Urbana-Champaign               | 609,984                       | 39               | 22              | Public                   |
| University of Alabama - Birmingham                      | 575,060                       | 40               | 23              | Public                   |
| Arizona State University                                | 559,391                       | 41               | 24              | Public                   |
| Purdue University - West Lafayette                      | 535,826                       | 42               | 25              | Public                   |
| Indiana University - Bloomington                        | 534,811                       | 43               | 26              | Public                   |
| University of Utah                                      | 534,208                       | 44               | 27              | Public                   |
| University of Maryland - College Park                   | 529,200                       | 45               | 28              | Public                   |
| University of South Florida - Tampa                     | 524,744                       | 46               | 29              | Public                   |
| Virginia Polytechnic Institute and State University     | 520,575                       | 47               | 30              | Public                   |
| University of Colorado - Denver/Anschutz Medical        | 517,749                       | 48               | 31              | Public                   |
| North Carolina State University                         | 497,851                       | 49               | 32              | Public                   |
| University of Virginia                                  | 490,902                       | 50               | 33              | Public                   |

## The Top 200 Institutions – Total Research Expenditures (2018)

| Top 51-100 Institutions in<br>Total Research Expenditures | Total<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|-----------------------------------------------------------|-------------------------------|------------------|-----------------|--------------------------|
| University of Colorado - Boulder                          | 488,883                       | 51               | 34              | Public                   |
| University of Iowa                                        | 484,253                       | 52               | 35              | Public                   |
| University of Texas SW Medical Center - Dallas            | 474,260                       | 53               | 36              | Public                   |
| University of Cincinnati - Cincinnati                     | 464,289                       | 54               | 37              | Public                   |
| University of Maryland - Baltimore                        | 450,619                       | 55               | 38              | Public                   |
| Boston University                                         | 435,864                       | 56               | 18              | Private                  |
| Case Western Reserve University                           | 430,379                       | 57               | 19              | Private                  |
| University of Chicago                                     | 412,791                       | 58               | 20              | Private                  |
| Weill Cornell Medical College                             | 403,485                       | 59               | 21              | Private                  |
| University of California - Irvine                         | 399,295                       | 60               | 39              | Public                   |
| Scripps Research Institute                                | 396,839                       | 61               | 22              | Private                  |
| University at Buffalo                                     | 393,241                       | 62               | 40              | Public                   |
| University of Georgia                                     | 390,773                       | 63               | 41              | Public                   |
| University of Kentucky                                    | 382,973                       | 64               | 42              | Public                   |
| Oregon Health & Science University                        | 372,148                       | 65               | 43              | Public                   |
| University of Rochester                                   | 369,072                       | 66               | 23              | Private                  |
| California Institute of Technology                        | 363,007                       | 67               | 24              | Private                  |
| Colorado State University - Fort Collins                  | 356,951                       | 68               | 44              | Public                   |
| University of Miami                                       | 355,132                       | 69               | 25              | Private                  |
| Rockefeller University                                    | 353,142                       | 70               | 26              | Private                  |
| Princeton University                                      | 351,594                       | 71               | 27              | Private                  |
| Iowa State University                                     | 343,890                       | 72               | 45              | Public                   |
| University of Illinois - Chicago                          | 343,254                       | 73               | 46              | Public                   |
| Carnegie Mellon University                                | 318,218                       | 74               | 28              | Private                  |
| Washington State University - Pullman                     | 314,688                       | 75               | 47              | Public                   |
| Uniformed Services University of the Health Sciences      | 308,326                       | 76               | 48              | Public                   |
| University of Tennessee - Knoxville                       | 303,951                       | 77               | 49              | Public                   |
| Yeshiva University                                        | 300,630                       | 78               | 29              | Private                  |
| Dartmouth College                                         | 287,951                       | 79               | 30              | Private                  |
| Medical University of South Carolina                      | 282,253                       | 80               | 50              | Public                   |
| Louisiana State University - Baton Rouge                  | 278,075                       | 81               | 51              | Public                   |
| University of Nebraska - Lincoln                          | 275,161                       | 82               | 52              | Public                   |
| University of Massachusetts Medical Sch. - Worcester      | 274,211                       | 83               | 53              | Public                   |
| University of Hawaii - Manoa                              | 272,971                       | 84               | 54              | Public                   |
| Oregon State University                                   | 266,684                       | 85               | 55              | Public                   |
| Florida State University                                  | 260,486                       | 86               | 56              | Public                   |
| University of Texas Health Science Center - Houston       | 258,411                       | 87               | 57              | Public                   |
| State Univ. of New York - Polytechnic Institute           | 257,316                       | 88               | 58              | Public                   |
| Temple University                                         | 253,548                       | 89               | 59              | Public                   |
| University of Missouri - Columbia                         | 245,600                       | 90               | 60              | Public                   |
| University of New Mexico - Albuquerque                    | 245,400                       | 91               | 61              | Public                   |
| George Washington University                              | 242,029                       | 92               | 31              | Private                  |
| Stony Brook University                                    | 240,949                       | 93               | 62              | Public                   |
| Mississippi State University                              | 235,581                       | 94               | 63              | Public                   |
| Brown University                                          | 233,689                       | 95               | 32              | Private                  |
| Wayne State University                                    | 230,231                       | 96               | 64              | Public                   |
| Medical College of Wisconsin                              | 229,436                       | 97               | 33              | Private                  |
| University of California - Santa Barbara                  | 223,349                       | 98               | 65              | Public                   |
| Virginia Commonwealth University                          | 222,757                       | 99               | 66              | Public                   |
| Utah State University                                     | 215,994                       | 100              | 67              | Public                   |

## The Top 200 Institutions – Total Research Expenditures (2018)

| Top 101-150 Institutions in<br>Total Research Expenditures | Total<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|------------------------------------------------------------|-------------------------------|------------------|-----------------|--------------------------|
| Woods Hole Oceanographic Institution                       | 204,400                       | 101              | 34              | Private                  |
| Kansas State University                                    | 201,866                       | 102              | 68              | Public                   |
| University of Texas Health Science Ctr. - San Antonio      | 201,630                       | 103              | 69              | Public                   |
| University of South Carolina - Columbia                    | 199,483                       | 104              | 70              | Public                   |
| Tufts University                                           | 197,478                       | 105              | 35              | Private                  |
| University of Massachusetts - Amherst                      | 193,495                       | 106              | 71              | Public                   |
| Georgetown University                                      | 192,160                       | 107              | 36              | Private                  |
| Wake Forest University                                     | 190,991                       | 108              | 37              | Private                  |
| University of Notre Dame                                   | 190,469                       | 109              | 38              | Private                  |
| Auburn University                                          | 184,650                       | 110              | 72              | Public                   |
| University of Texas Medical Branch - Galveston             | 181,831                       | 111              | 73              | Public                   |
| Tulane University                                          | 179,813                       | 112              | 39              | Private                  |
| University of Delaware                                     | 179,560                       | 113              | 74              | Public                   |
| University of Kansas - Lawrence                            | 177,249                       | 114              | 75              | Public                   |
| University of Nebraska Medical Center                      | 177,245                       | 115              | 76              | Public                   |
| University of Central Florida                              | 176,094                       | 116              | 77              | Public                   |
| West Virginia University                                   | 176,082                       | 117              | 78              | Public                   |
| University of Louisville                                   | 168,433                       | 118              | 79              | Public                   |
| Florida International University                           | 165,748                       | 119              | 80              | Public                   |
| University of Connecticut - Storrs                         | 163,543                       | 120              | 81              | Public                   |
| University of California - Riverside                       | 162,054                       | 121              | 82              | Public                   |
| Clemson University                                         | 160,361                       | 122              | 83              | Public                   |
| University of Houston - University Park                    | 158,543                       | 123              | 84              | Public                   |
| Rice University                                            | 157,352                       | 124              | 40              | Private                  |
| Northeastern University                                    | 156,546                       | 125              | 41              | Private                  |
| Oklahoma State University - Stillwater                     | 154,418                       | 126              | 85              | Public                   |
| University at Albany                                       | 151,303                       | 127              | 86              | Public                   |
| Thomas Jefferson University                                | 148,573                       | 128              | 42              | Private                  |
| Drexel University                                          | 148,107                       | 129              | 43              | Private                  |
| University of Arkansas - Fayetteville                      | 146,029                       | 130              | 87              | Public                   |
| University of Dayton                                       | 143,636                       | 131              | 44              | Private                  |
| University of Oklahoma - Norman                            | 143,376                       | 132              | 88              | Public                   |
| North Dakota State University                              | 140,507                       | 133              | 89              | Public                   |
| Texas Tech University                                      | 139,500                       | 134              | 90              | Public                   |
| University of Arkansas for Medical Sciences                | 139,187                       | 135              | 91              | Public                   |
| University of Alaska - Fairbanks                           | 138,989                       | 136              | 92              | Public                   |
| University of New Hampshire - Durham                       | 133,378                       | 137              | 93              | Public                   |
| Georgia State University                                   | 133,302                       | 138              | 94              | Public                   |
| University of Vermont                                      | 129,798                       | 139              | 95              | Public                   |
| University of Nevada - Reno                                | 127,049                       | 140              | 96              | Public                   |
| George Mason University                                    | 125,416                       | 141              | 97              | Public                   |
| New Jersey Institute of Technology                         | 124,565                       | 142              | 98              | Public                   |
| University of California - Santa Cruz                      | 123,221                       | 143              | 99              | Public                   |
| University of Oklahoma - Health Sciences Center            | 119,487                       | 144              | 100             | Public                   |
| Cold Spring Harbor Laboratory                              | 115,870                       | 145              | 45              | Private                  |
| Montana State University - Bozeman                         | 114,496                       | 146              | 101             | Public                   |
| University of Wyoming                                      | 112,857                       | 147              | 102             | Public                   |
| University of Maine - Orono                                | 105,810                       | 148              | 103             | Public                   |
| University of Idaho                                        | 105,578                       | 149              | 104             | Public                   |
| Binghamton University                                      | 105,017                       | 150              | 105             | Public                   |

## The Top 200 Institutions – Total Research Expenditures (2018)

| Top 151-200 Institutions in<br>Total Research Expenditures | Total<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|------------------------------------------------------------|-------------------------------|------------------|-----------------|--------------------------|
| University of Louisiana - Lafayette                        | 102,812                       | 151              | 106             | Public                   |
| Pennsylvania State University - Hershey Medical Ctr.       | 101,701                       | 152              | 107             | Public                   |
| University of Texas - Dallas                               | 100,950                       | 153              | 108             | Public                   |
| University of North Dakota                                 | 100,061                       | 154              | 109             | Public                   |
| Augusta University                                         | 99,043                        | 155              | 110             | Public                   |
| University of Rhode Island                                 | 98,271                        | 156              | 111             | Public                   |
| University of Alabama - Huntsville                         | 94,519                        | 157              | 112             | Public                   |
| Rensselaer Polytechnic Institute                           | 94,221                        | 158              | 46              | Private                  |
| University of Connecticut - Health Center                  | 93,283                        | 159              | 113             | Public                   |
| University of Kansas Medical Center                        | 92,245                        | 160              | 114             | Public                   |
| New Mexico State University - Las Cruces                   | 92,231                        | 161              | 115             | Public                   |
| Rush University                                            | 89,101                        | 162              | 47              | Private                  |
| University of Texas - Arlington                            | 87,257                        | 163              | 116             | Public                   |
| University of Montana - Missoula                           | 86,096                        | 164              | 117             | Public                   |
| University of Oregon                                       | 83,132                        | 165              | 118             | Public                   |
| University of Texas - El Paso                              | 80,824                        | 166              | 119             | Public                   |
| University of Tennessee Health Science Center              | 79,460                        | 167              | 120             | Public                   |
| Syracuse University                                        | 78,642                        | 168              | 48              | Private                  |
| Cleveland State University                                 | 77,203                        | 169              | 121             | Public                   |
| Michigan Technological University                          | 75,194                        | 170              | 122             | Public                   |
| University of Maryland - Baltimore County                  | 70,358                        | 171              | 123             | Public                   |
| San Diego State University                                 | 69,858                        | 172              | 124             | Public                   |
| Wright State University - Dayton                           | 67,615                        | 173              | 125             | Public                   |
| Wichita State University                                   | 66,916                        | 174              | 126             | Public                   |
| University of Texas - San Antonio                          | 66,192                        | 175              | 127             | Public                   |
| University of Massachusetts - Lowell                       | 65,060                        | 176              | 128             | Public                   |
| South Dakota State University                              | 63,287                        | 177              | 129             | Public                   |
| University of Nevada - Las Vegas                           | 62,711                        | 178              | 130             | Public                   |
| University of Mississippi Medical Center                   | 60,821                        | 179              | 131             | Public                   |
| University of Alabama - Tuscaloosa                         | 59,911                        | 180              | 132             | Public                   |
| Colorado School of Mines                                   | 58,288                        | 181              | 133             | Public                   |
| Brandeis University                                        | 56,750                        | 182              | 49              | Private                  |
| University of Mississippi - Oxford                         | 56,569                        | 183              | 134             | Public                   |
| Saint Louis University - St. Louis                         | 55,913                        | 184              | 50              | Private                  |
| University of California System Admin Central Office       | 55,676                        | 185              | 135             | Public                   |
| Van Andel Institute                                        | 55,171                        | 186              | 51              | Private                  |
| William & Mary                                             | 54,508                        | 187              | 136             | Public                   |
| Indiana University-Purdue University - Indianapolis        | 54,270                        | 188              | 137             | Public                   |
| University of Wisconsin - Milwaukee                        | 53,585                        | 189              | 138             | Public                   |
| Univ. of Maryland Center for Environmental Science         | 53,398                        | 190              | 139             | Public                   |
| City University of NY - City College                       | 53,132                        | 191              | 140             | Public                   |
| Naval Postgraduate School                                  | 52,551                        | 192              | 141             | Public                   |
| Northern Arizona University                                | 52,105                        | 193              | 142             | Public                   |
| Old Dominion University                                    | 51,747                        | 194              | 143             | Public                   |
| University of Memphis                                      | 50,819                        | 195              | 144             | Public                   |
| University of Southern Mississippi                         | 49,785                        | 196              | 145             | Public                   |
| Southern Illinois University - Carbondale                  | 49,636                        | 197              | 146             | Public                   |
| Ohio University - Athens                                   | 49,518                        | 198              | 147             | Public                   |
| University of North Texas Health Science Center            | 49,503                        | 199              | 148             | Public                   |
| University of Toledo                                       | 48,184                        | 200              | 149             | Public                   |

## The Top 200 Institutions – Federal Research Expenditures (2018)

| Top 1-50 Institutions in Federal Research Expenditures | Federal Research x \$1000 | National Rank | Control Rank | Institutional Control |
|--------------------------------------------------------|---------------------------|---------------|--------------|-----------------------|
| Johns Hopkins University                               | 2,246,705                 | 1             | 1            | Private               |
| University of Washington - Seattle                     | 955,518                   | 2             | 1            | Public                |
| University of Michigan - Ann Arbor                     | 841,158                   | 3             | 2            | Public                |
| Stanford University                                    | 685,871                   | 4             | 2            | Private               |
| University of North Carolina - Chapel Hill             | 681,581                   | 5             | 3            | Public                |
| Columbia University                                    | 673,792                   | 6             | 3            | Private               |
| University of Pennsylvania                             | 671,796                   | 7             | 4            | Private               |
| University of California - San Francisco               | 669,470                   | 8             | 4            | Public                |
| Georgia Institute of Technology                        | 646,317                   | 9             | 5            | Public                |
| Duke University                                        | 644,179                   | 10            | 5            | Private               |
| University of Pittsburgh - Pittsburgh                  | 643,129                   | 11            | 6            | Public                |
| University of California - San Diego                   | 634,676                   | 12            | 7            | Public                |
| Harvard University                                     | 578,722                   | 13            | 6            | Private               |
| University of California - Los Angeles                 | 557,986                   | 14            | 8            | Public                |
| University of Wisconsin - Madison                      | 555,666                   | 15            | 9            | Public                |
| Yale University                                        | 549,026                   | 16            | 7            | Private               |
| Pennsylvania State University - University Park        | 501,784                   | 17            | 10           | Public                |
| Washington University in St. Louis                     | 496,648                   | 18            | 8            | Private               |
| University of Southern California                      | 488,081                   | 19            | 9            | Private               |
| Massachusetts Institute of Technology                  | 476,576                   | 20            | 10           | Private               |
| Northwestern University                                | 464,689                   | 21            | 11           | Private               |
| Vanderbilt University                                  | 456,599                   | 22            | 12           | Private               |
| University of Minnesota - Twin Cities                  | 455,294                   | 23            | 11           | Public                |
| Ohio State University - Columbus                       | 439,594                   | 24            | 12           | Public                |
| Icahn School of Medicine at Mount Sinai                | 398,656                   | 25            | 13           | Private               |
| New York University                                    | 395,445                   | 26            | 14           | Private               |
| Emory University                                       | 392,971                   | 27            | 15           | Private               |
| University of Texas - Austin                           | 386,954                   | 28            | 13           | Public                |
| University of Colorado - Boulder                       | 376,870                   | 29            | 14           | Public                |
| University of Alabama - Birmingham                     | 370,401                   | 30            | 15           | Public                |
| University of California - Davis                       | 354,823                   | 31            | 16           | Public                |
| University of Maryland - College Park                  | 351,952                   | 32            | 17           | Public                |
| Case Western Reserve University                        | 346,935                   | 33            | 16           | Private               |
| University of Florida                                  | 340,725                   | 34            | 18           | Public                |
| University of Illinois - Urbana-Champaign              | 339,732                   | 35            | 19           | Public                |
| Rutgers University - New Brunswick                     | 330,823                   | 36            | 20           | Public                |
| University of Colorado - Denver/Anschutz Medical       | 326,254                   | 37            | 21           | Public                |
| University of California - Berkeley                    | 324,521                   | 38            | 22           | Public                |
| Texas A&M University - College Station                 | 316,771                   | 39            | 23           | Public                |
| Michigan State University                              | 315,674                   | 40            | 24           | Public                |
| University of Utah                                     | 302,586                   | 41            | 25           | Public                |
| Baylor College of Medicine                             | 300,098                   | 42            | 17           | Private               |
| Cornell University                                     | 297,855                   | 43            | 18           | Private               |
| University of Chicago                                  | 297,824                   | 44            | 19           | Private               |
| University of Arizona                                  | 287,852                   | 45            | 26           | Public                |
| University of Rochester                                | 283,973                   | 46            | 20           | Private               |
| California Institute of Technology                     | 268,765                   | 47            | 21           | Private               |
| Scripps Research Institute                             | 267,088                   | 48            | 22           | Private               |
| Oregon Health & Science University                     | 264,492                   | 49            | 27           | Public                |
| Boston University                                      | 264,281                   | 50            | 23           | Private               |

## The Top 200 Institutions – Federal Research Expenditures (2018)

| Top 51-100 Institutions in<br>Federal Research Expenditures | Federal<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|-------------------------------------------------------------|---------------------------------|------------------|-----------------|--------------------------|
| University of Maryland - Baltimore                          | 263,732                         | 51               | 28              | Public                   |
| Colorado State University - Fort Collins                    | 257,355                         | 52               | 29              | Public                   |
| University of Cincinnati - Cincinnati                       | 246,400                         | 53               | 30              | Public                   |
| University of South Florida - Tampa                         | 245,414                         | 54               | 31              | Public                   |
| Indiana University - Bloomington                            | 245,402                         | 55               | 32              | Public                   |
| Arizona State University                                    | 244,795                         | 56               | 33              | Public                   |
| University of Iowa                                          | 243,216                         | 57               | 34              | Public                   |
| University of Virginia                                      | 231,161                         | 58               | 35              | Public                   |
| Purdue University - West Lafayette                          | 230,208                         | 59               | 36              | Public                   |
| Uniformed Services University of the Health Sciences        | 218,702                         | 60               | 37              | Public                   |
| North Carolina State University                             | 214,440                         | 61               | 38              | Public                   |
| University of Texas SW Medical Center - Dallas              | 197,910                         | 62               | 39              | Public                   |
| Yeshiva University                                          | 197,140                         | 63               | 24              | Private                  |
| Virginia Polytechnic Institute and State University         | 195,140                         | 64               | 40              | Public                   |
| University of Massachusetts Medical Sch. - Worcester        | 194,953                         | 65               | 41              | Public                   |
| University of California - Irvine                           | 192,182                         | 66               | 42              | Public                   |
| University of Miami                                         | 191,408                         | 67               | 25              | Private                  |
| University of Illinois - Chicago                            | 189,322                         | 68               | 43              | Public                   |
| University at Buffalo                                       | 183,124                         | 69               | 44              | Public                   |
| Carnegie Mellon University                                  | 181,958                         | 70               | 26              | Private                  |
| Princeton University                                        | 179,659                         | 71               | 27              | Private                  |
| University of Texas MD Anderson Cancer Center               | 173,206                         | 72               | 45              | Public                   |
| University of Kentucky                                      | 168,968                         | 73               | 46              | Public                   |
| University of New Mexico - Albuquerque                      | 167,315                         | 74               | 47              | Public                   |
| Weill Cornell Medical College                               | 166,613                         | 75               | 28              | Private                  |
| University of Hawaii - Manoa                                | 166,398                         | 76               | 48              | Public                   |
| Oregon State University                                     | 166,354                         | 77               | 49              | Public                   |
| Woods Hole Oceanographic Institution                        | 163,003                         | 78               | 29              | Private                  |
| Brown University                                            | 161,384                         | 79               | 30              | Private                  |
| Utah State University                                       | 158,576                         | 80               | 50              | Public                   |
| Wake Forest University                                      | 154,031                         | 81               | 31              | Private                  |
| George Washington University                                | 153,412                         | 82               | 32              | Private                  |
| Iowa State University                                       | 145,241                         | 83               | 51              | Public                   |
| University of Georgia                                       | 144,926                         | 84               | 52              | Public                   |
| University of Tennessee - Knoxville                         | 143,406                         | 85               | 53              | Public                   |
| Medical University of South Carolina                        | 142,639                         | 86               | 54              | Public                   |
| Temple University                                           | 141,505                         | 87               | 55              | Public                   |
| Dartmouth College                                           | 139,692                         | 88               | 33              | Private                  |
| Stony Brook University                                      | 134,802                         | 89               | 56              | Public                   |
| Washington State University - Pullman                       | 131,229                         | 90               | 57              | Public                   |
| University of Dayton                                        | 130,488                         | 91               | 34              | Private                  |
| Florida State University                                    | 129,435                         | 92               | 58              | Public                   |
| Tufts University                                            | 128,404                         | 93               | 35              | Private                  |
| University of Texas Health Science Center - Houston         | 128,232                         | 94               | 59              | Public                   |
| Virginia Commonwealth University                            | 122,771                         | 95               | 60              | Public                   |
| University of Delaware                                      | 113,582                         | 96               | 61              | Public                   |
| Medical College of Wisconsin                                | 111,273                         | 97               | 36              | Private                  |
| University of California - Santa Barbara                    | 110,065                         | 98               | 62              | Public                   |
| Northeastern University                                     | 109,443                         | 99               | 37              | Private                  |
| University of Missouri - Columbia                           | 108,254                         | 100              | 63              | Public                   |

## The Top 200 Institutions – Federal Research Expenditures (2018)

| Top 101-150 Institutions in<br>Federal Research Expenditures | Federal<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|--------------------------------------------------------------|---------------------------------|------------------|-----------------|--------------------------|
| Wayne State University                                       | 107,791                         | 101              | 64              | Public                   |
| University of Texas Medical Branch - Galveston               | 104,356                         | 102              | 65              | Public                   |
| University of Massachusetts - Amherst                        | 103,555                         | 103              | 66              | Public                   |
| Tulane University                                            | 102,090                         | 104              | 38              | Private                  |
| University of Nebraska - Lincoln                             | 102,078                         | 105              | 67              | Public                   |
| University of Alaska - Fairbanks                             | 93,562                          | 106              | 68              | Public                   |
| University of Nebraska Medical Center                        | 93,463                          | 107              | 69              | Public                   |
| University of Notre Dame                                     | 92,144                          | 108              | 39              | Private                  |
| University of Central Florida                                | 89,504                          | 109              | 70              | Public                   |
| Georgetown University                                        | 88,778                          | 110              | 40              | Private                  |
| University of Connecticut - Storrs                           | 88,586                          | 111              | 71              | Public                   |
| Mississippi State University                                 | 88,365                          | 112              | 72              | Public                   |
| University of South Carolina - Columbia                      | 88,117                          | 113              | 73              | Public                   |
| University of Oklahoma - Norman                              | 87,989                          | 114              | 74              | Public                   |
| University of New Hampshire - Durham                         | 87,854                          | 115              | 75              | Public                   |
| Rockefeller University                                       | 87,231                          | 116              | 41              | Private                  |
| University of Texas Health Science Ctr. - San Antonio        | 86,956                          | 117              | 76              | Public                   |
| University of Vermont                                        | 86,936                          | 118              | 77              | Public                   |
| University of Kansas - Lawrence                              | 85,397                          | 119              | 78              | Public                   |
| University at Albany                                         | 84,561                          | 120              | 79              | Public                   |
| Louisiana State University - Baton Rouge                     | 83,453                          | 121              | 80              | Public                   |
| Florida International University                             | 80,417                          | 122              | 81              | Public                   |
| Drexel University                                            | 80,074                          | 123              | 42              | Private                  |
| New Jersey Institute of Technology                           | 78,313                          | 124              | 82              | Public                   |
| Kansas State University                                      | 77,730                          | 125              | 83              | Public                   |
| Rice University                                              | 77,607                          | 126              | 43              | Private                  |
| University of Louisville                                     | 77,281                          | 127              | 84              | Public                   |
| University of California - Riverside                         | 75,990                          | 128              | 85              | Public                   |
| University of Alabama - Huntsville                           | 74,315                          | 129              | 86              | Public                   |
| West Virginia University                                     | 73,518                          | 130              | 87              | Public                   |
| Montana State University - Bozeman                           | 67,705                          | 131              | 88              | Public                   |
| Cold Spring Harbor Laboratory                                | 67,139                          | 132              | 44              | Private                  |
| Clemson University                                           | 66,618                          | 133              | 89              | Public                   |
| Thomas Jefferson University                                  | 64,869                          | 134              | 45              | Private                  |
| George Mason University                                      | 64,315                          | 135              | 90              | Public                   |
| Rush University                                              | 64,178                          | 136              | 46              | Private                  |
| University of California - Santa Cruz                        | 62,218                          | 137              | 91              | Public                   |
| University of Houston - University Park                      | 62,134                          | 138              | 92              | Public                   |
| University of Rhode Island                                   | 61,135                          | 139              | 93              | Public                   |
| University of Nevada - Reno                                  | 59,879                          | 140              | 94              | Public                   |
| Auburn University                                            | 57,718                          | 141              | 95              | Public                   |
| University of Arkansas for Medical Sciences                  | 57,523                          | 142              | 96              | Public                   |
| University of Oregon                                         | 56,403                          | 143              | 97              | Public                   |
| Pennsylvania State University - Hershey Medical Ctr.         | 55,539                          | 144              | 98              | Public                   |
| Georgia State University                                     | 55,241                          | 145              | 99              | Public                   |
| Cleveland State University                                   | 54,987                          | 146              | 100             | Public                   |
| University of Oklahoma - Health Sciences Center              | 54,481                          | 147              | 101             | Public                   |
| New Mexico State University - Las Cruces                     | 53,417                          | 148              | 102             | Public                   |
| University of Maryland - Baltimore County                    | 52,934                          | 149              | 103             | Public                   |
| University of Montana - Missoula                             | 51,975                          | 150              | 104             | Public                   |

## The Top 200 Institutions – Federal Research Expenditures (2018)

| Top 151-200 Institutions in<br>Federal Research Expenditures | Federal<br>Research<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|--------------------------------------------------------------|---------------------------------|------------------|-----------------|--------------------------|
| University of Connecticut - Health Center                    | 50,436                          | 151              | 105             | Public                   |
| University of North Dakota                                   | 48,858                          | 152              | 106             | Public                   |
| Augusta University                                           | 48,800                          | 153              | 107             | Public                   |
| University of Arkansas - Fayetteville                        | 48,288                          | 154              | 108             | Public                   |
| University of Idaho                                          | 47,475                          | 155              | 109             | Public                   |
| Rensselaer Polytechnic Institute                             | 46,385                          | 156              | 47              | Private                  |
| University of Maine - Orono                                  | 45,206                          | 157              | 110             | Public                   |
| University of Kansas Medical Center                          | 44,639                          | 158              | 111             | Public                   |
| Wright State University - Dayton                             | 43,359                          | 159              | 112             | Public                   |
| University of Texas - El Paso                                | 43,214                          | 160              | 113             | Public                   |
| University of Wyoming                                        | 42,538                          | 161              | 114             | Public                   |
| State Univ. of New York - Polytechnic Institute              | 41,753                          | 162              | 115             | Public                   |
| Naval Postgraduate School                                    | 41,151                          | 163              | 116             | Public                   |
| Oklahoma State University - Stillwater                       | 40,052                          | 164              | 117             | Public                   |
| University of Tennessee Health Science Center                | 39,421                          | 165              | 118             | Public                   |
| Colorado School of Mines                                     | 39,311                          | 166              | 119             | Public                   |
| University of Texas - Dallas                                 | 39,010                          | 167              | 120             | Public                   |
| San Diego State University                                   | 37,873                          | 168              | 121             | Public                   |
| Brandeis University                                          | 37,371                          | 169              | 48              | Private                  |
| City University of NY - City College                         | 36,402                          | 170              | 122             | Public                   |
| North Dakota State University                                | 34,485                          | 171              | 123             | Public                   |
| University of Texas - Arlington                              | 34,063                          | 172              | 124             | Public                   |
| Syracuse University                                          | 33,045                          | 173              | 49              | Private                  |
| University of Nevada - Las Vegas                             | 32,711                          | 174              | 125             | Public                   |
| University of Mississippi Medical Center                     | 32,678                          | 175              | 126             | Public                   |
| Howard University                                            | 32,573                          | 176              | 50              | Private                  |
| Michigan Technological University                            | 32,366                          | 177              | 127             | Public                   |
| San Jose State University                                    | 31,592                          | 178              | 128             | Public                   |
| University of Puerto Rico - Medical Sciences                 | 30,597                          | 179              | 129             | Public                   |
| University of Southern Mississippi                           | 30,331                          | 180              | 130             | Public                   |
| University of Mississippi - Oxford                           | 30,043                          | 181              | 131             | Public                   |
| Florida A&M University                                       | 29,861                          | 182              | 132             | Public                   |
| Northern Arizona University                                  | 29,137                          | 183              | 133             | Public                   |
| University of Massachusetts - Lowell                         | 28,982                          | 184              | 134             | Public                   |
| University of Texas - San Antonio                            | 28,943                          | 185              | 135             | Public                   |
| Old Dominion University                                      | 28,792                          | 186              | 136             | Public                   |
| William & Mary                                               | 27,836                          | 187              | 137             | Public                   |
| Illinois Institute of Technology                             | 27,742                          | 188              | 51              | Private                  |
| Saint Louis University - St. Louis                           | 27,694                          | 189              | 52              | Private                  |
| Boston College                                               | 27,674                          | 190              | 53              | Private                  |
| University of Alabama - Tuscaloosa                           | 27,660                          | 191              | 138             | Public                   |
| U.S. Air Force Academy                                       | 27,650                          | 192              | 139             | Public                   |
| University of North Texas Health Science Center              | 27,579                          | 193              | 140             | Public                   |
| South Dakota State University                                | 27,013                          | 194              | 141             | Public                   |
| Louisiana State University HSC - New Orleans                 | 26,988                          | 195              | 142             | Public                   |
| State Univ. of New York - Downstate Medical Center           | 26,302                          | 196              | 143             | Public                   |
| Stevens Institute of Technology                              | 25,521                          | 197              | 54              | Private                  |
| University of Toledo                                         | 25,056                          | 198              | 144             | Public                   |
| Texas Tech University                                        | 24,503                          | 199              | 145             | Public                   |
| University of Wisconsin - Milwaukee                          | 24,348                          | 200              | 146             | Public                   |

## The Top 200 Institutions – Endowment Assets (2019)

| Top 1-50 Institutions<br>in Endowment Assets    | Endowment<br>Assets<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|-------------------------------------------------|---------------------------------|------------------|-----------------|--------------------------|
| Harvard University                              | 39,427,896                      | 1                | 1               | Private                  |
| Yale University                                 | 30,314,800                      | 2                | 2               | Private                  |
| Stanford University                             | 27,699,834                      | 3                | 3               | Private                  |
| Princeton University                            | 26,116,023                      | 4                | 4               | Private                  |
| Massachusetts Institute of Technology           | 17,569,328                      | 5                | 5               | Private                  |
| University of Pennsylvania                      | 14,649,762                      | 6                | 6               | Private                  |
| University of Texas - Austin                    | 13,817,599                      | 7                | 1               | Public                   |
| Texas A&M University - College Station          | 12,736,450                      | 8                | 2               | Public                   |
| University of Michigan - Ann Arbor              | 12,448,817                      | 9                | 3               | Public                   |
| University of Notre Dame                        | 11,268,365                      | 10               | 7               | Private                  |
| Northwestern University                         | 11,091,516                      | 11               | 8               | Private                  |
| Columbia University                             | 10,950,738                      | 12               | 9               | Private                  |
| Duke University                                 | 8,609,004                       | 13               | 10              | Private                  |
| University of Chicago                           | 8,263,868                       | 14               | 11              | Private                  |
| Washington University in St. Louis              | 7,953,986                       | 15               | 12              | Private                  |
| Emory University                                | 7,872,381                       | 16               | 13              | Private                  |
| University of Virginia                          | 7,058,235                       | 17               | 4               | Public                   |
| Rice University                                 | 6,481,102                       | 18               | 14              | Private                  |
| Johns Hopkins University                        | 6,275,939                       | 19               | 15              | Private                  |
| Vanderbilt University                           | 6,270,877                       | 20               | 16              | Private                  |
| Cornell University                              | 5,803,967                       | 21               | 17              | Private                  |
| University of Southern California               | 5,732,101                       | 22               | 18              | Private                  |
| Dartmouth College                               | 5,731,322                       | 23               | 19              | Private                  |
| Ohio State University - Columbus                | 5,256,759                       | 24               | 5               | Public                   |
| University of California - Berkeley             | 4,903,675                       | 25               | 6               | Public                   |
| University of California - Los Angeles          | 4,902,768                       | 26               | 7               | Public                   |
| New York University                             | 4,345,608                       | 27               | 20              | Private                  |
| University of Pittsburgh - Pittsburgh           | 4,311,387                       | 28               | 8               | Public                   |
| Brown University                                | 3,976,694                       | 29               | 21              | Private                  |
| University of Minnesota - Twin Cities           | 3,951,464                       | 30               | 9               | Public                   |
| University of California - San Francisco        | 3,679,094                       | 31               | 10              | Public                   |
| University of North Carolina - Chapel Hill      | 3,671,351                       | 32               | 11              | Public                   |
| University of Wisconsin - Madison               | 3,553,672                       | 33               | 12              | Public                   |
| Michigan State University                       | 3,404,779                       | 34               | 13              | Public                   |
| California Institute of Technology              | 2,975,376                       | 35               | 22              | Private                  |
| University of Washington - Seattle              | 2,935,220                       | 36               | 14              | Public                   |
| Williams College                                | 2,888,962                       | 37               | 23              | Private                  |
| Purdue University - West Lafayette              | 2,625,278                       | 38               | 15              | Public                   |
| Pennsylvania State University - University Park | 2,549,603                       | 39               | 16              | Public                   |
| Carnegie Mellon University                      | 2,542,650                       | 40               | 24              | Private                  |
| Boston College                                  | 2,523,300                       | 41               | 25              | Private                  |
| University of Richmond                          | 2,517,969                       | 42               | 26              | Private                  |
| Amherst College                                 | 2,473,283                       | 43               | 27              | Private                  |
| Pomona College                                  | 2,324,594                       | 44               | 28              | Private                  |
| Boston University                               | 2,304,235                       | 45               | 29              | Private                  |
| Rockefeller University                          | 2,293,239                       | 46               | 30              | Private                  |
| University of Rochester                         | 2,239,720                       | 47               | 31              | Private                  |
| Wellesley College                               | 2,173,415                       | 48               | 32              | Private                  |
| Georgia Institute of Technology                 | 2,169,005                       | 49               | 17              | Public                   |
| Swarthmore College                              | 2,131,553                       | 50               | 33              | Private                  |

## The Top 200 Institutions – Endowment Assets (2019)

| Top 51-100 Institutions<br>in Endowment Assets        | Endowment<br>Assets<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|-------------------------------------------------------|---------------------------------|------------------|-----------------|--------------------------|
| Grinnell College                                      | 2,069,953                       | 51               | 34              | Private                  |
| Virginia Commonwealth University                      | 2,042,520                       | 52               | 18              | Public                   |
| University of Texas SW Medical Center - Dallas        | 2,007,032                       | 53               | 19              | Public                   |
| Smith College                                         | 1,913,253                       | 54               | 35              | Private                  |
| Brigham Young University - Provo                      | 1,878,296                       | 55               | 36              | Private                  |
| Tufts University                                      | 1,867,962                       | 56               | 37              | Private                  |
| Case Western Reserve University                       | 1,866,500                       | 57               | 38              | Private                  |
| University of Illinois - Urbana-Champaign             | 1,857,157                       | 58               | 20              | Public                   |
| University of Florida                                 | 1,825,250                       | 59               | 21              | Public                   |
| Georgetown University                                 | 1,822,484                       | 60               | 39              | Private                  |
| George Washington University                          | 1,778,559                       | 61               | 40              | Private                  |
| University of California - San Diego                  | 1,746,546                       | 62               | 22              | Public                   |
| Bowdoin College                                       | 1,743,663                       | 63               | 41              | Private                  |
| Texas Christian University                            | 1,708,867                       | 64               | 42              | Private                  |
| Washington and Lee University                         | 1,676,308                       | 65               | 43              | Private                  |
| University of California - Davis                      | 1,670,738                       | 66               | 23              | Public                   |
| Southern Methodist University                         | 1,663,864                       | 67               | 44              | Private                  |
| University of Iowa                                    | 1,578,933                       | 68               | 24              | Public                   |
| Weill Cornell Medical College                         | 1,522,808                       | 69               | 45              | Private                  |
| University of Delaware                                | 1,466,070                       | 70               | 25              | Public                   |
| University of Cincinnati - Cincinnati                 | 1,453,000                       | 71               | 26              | Public                   |
| Tulane University                                     | 1,429,707                       | 72               | 46              | Private                  |
| University of Kansas - Lawrence                       | 1,419,568                       | 73               | 27              | Public                   |
| Lehigh University                                     | 1,411,641                       | 74               | 47              | Private                  |
| University of Kentucky                                | 1,407,221                       | 75               | 28              | Public                   |
| University of Texas MD Anderson Cancer Center         | 1,405,649                       | 76               | 29              | Public                   |
| North Carolina State University                       | 1,400,655                       | 77               | 30              | Public                   |
| Syracuse University                                   | 1,392,691                       | 78               | 48              | Private                  |
| University of Oklahoma - Norman                       | 1,384,500                       | 79               | 31              | Public                   |
| Wake Forest University                                | 1,375,398                       | 80               | 49              | Private                  |
| Virginia Polytechnic Institute and State University   | 1,357,969                       | 81               | 32              | Public                   |
| University of Georgia                                 | 1,343,987                       | 82               | 33              | Public                   |
| Baylor University                                     | 1,340,417                       | 83               | 50              | Private                  |
| Baylor College of Medicine                            | 1,301,005                       | 84               | 51              | Private                  |
| Trinity University                                    | 1,280,248                       | 85               | 52              | Private                  |
| Rutgers University - New Brunswick                    | 1,253,185                       | 86               | 34              | Public                   |
| Saint Louis University - St. Louis                    | 1,252,678                       | 87               | 53              | Private                  |
| Indiana University - Purdue University - Indianapolis | 1,241,295                       | 88               | 35              | Public                   |
| University of Utah                                    | 1,225,045                       | 89               | 36              | Public                   |
| University of Arkansas - Fayetteville                 | 1,221,935                       | 90               | 37              | Public                   |
| Berea College                                         | 1,218,740                       | 91               | 54              | Private                  |
| Indiana University - Bloomington                      | 1,172,818                       | 92               | 38              | Public                   |
| Middlebury College                                    | 1,157,786                       | 93               | 55              | Private                  |
| MCPHS University                                      | 1,131,298                       | 94               | 56              | Private                  |
| University of Oregon                                  | 1,131,111                       | 95               | 39              | Public                   |
| Princeton Theological Seminary                        | 1,127,362                       | 96               | 57              | Private                  |
| Vassar College                                        | 1,117,380                       | 97               | 58              | Private                  |
| University of Tulsa                                   | 1,113,722                       | 98               | 59              | Private                  |
| Juilliard School                                      | 1,103,572                       | 99               | 60              | Private                  |
| Iowa State University                                 | 1,101,709                       | 100              | 40              | Public                   |

### The Top 200 Institutions – Endowment Assets (2019)

| Top 101-150 Institutions<br>in Endowment Assets   | Endowment<br>Assets<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|---------------------------------------------------|---------------------------------|------------------|-----------------|--------------------------|
| University of Nebraska - Lincoln                  | 1,082,434                       | 101              | 41              | Public                   |
| Loma Linda University                             | 1,076,898                       | 102              | 61              | Private                  |
| Brandeis University                               | 1,073,526                       | 103              | 62              | Private                  |
| Washington State University - Pullman             | 1,067,842                       | 104              | 42              | Public                   |
| Berry College                                     | 1,058,605                       | 105              | 63              | Private                  |
| Northeastern University                           | 1,055,474                       | 106              | 64              | Private                  |
| University of Missouri - Columbia                 | 1,052,760                       | 107              | 43              | Public                   |
| University of Arizona                             | 1,038,133                       | 108              | 44              | Public                   |
| University of California - Irvine                 | 1,029,020                       | 109              | 45              | Public                   |
| Santa Clara University                            | 1,019,760                       | 110              | 65              | Private                  |
| Wesleyan University                               | 1,004,806                       | 111              | 66              | Private                  |
| University of Miami                               | 997,413                         | 112              | 67              | Private                  |
| William & Mary                                    | 995,874                         | 113              | 46              | Public                   |
| Hamilton College (NY)                             | 969,362                         | 114              | 68              | Private                  |
| Thomas Jefferson University                       | 954,177                         | 115              | 69              | Private                  |
| Colgate University                                | 950,360                         | 116              | 70              | Private                  |
| Rochester Institute of Technology                 | 944,883                         | 117              | 71              | Private                  |
| Oberlin College                                   | 943,469                         | 118              | 72              | Private                  |
| University of Alabama - Tuscaloosa                | 938,532                         | 119              | 47              | Public                   |
| Medical College of Wisconsin                      | 937,909                         | 120              | 73              | Private                  |
| Arizona State University                          | 922,103                         | 121              | 48              | Public                   |
| Bryn Mawr College                                 | 907,976                         | 122              | 74              | Private                  |
| Carleton College                                  | 892,353                         | 123              | 75              | Private                  |
| Pepperdine University                             | 887,461                         | 124              | 76              | Private                  |
| Davidson College                                  | 881,465                         | 125              | 77              | Private                  |
| Oregon Health & Science University                | 877,758                         | 126              | 49              | Public                   |
| Denison University                                | 877,592                         | 127              | 78              | Private                  |
| Colby College                                     | 869,927                         | 128              | 79              | Private                  |
| Bucknell University                               | 866,835                         | 129              | 80              | Private                  |
| Claremont McKenna College                         | 865,475                         | 130              | 81              | Private                  |
| Cooper Union for the Advancement of Science & Art | 857,879                         | 131              | 82              | Private                  |
| Lafayette College                                 | 832,068                         | 132              | 83              | Private                  |
| Drexel University                                 | 813,685                         | 133              | 84              | Private                  |
| University at Buffalo                             | 794,895                         | 134              | 50              | Public                   |
| Mount Holyoke College                             | 794,204                         | 135              | 85              | Private                  |
| Auburn University                                 | 792,983                         | 136              | 51              | Public                   |
| University of Denver                              | 786,425                         | 137              | 86              | Private                  |
| College of the Holy Cross                         | 785,852                         | 138              | 87              | Private                  |
| National University                               | 780,839                         | 139              | 88              | Private                  |
| Clemson University                                | 774,514                         | 140              | 52              | Public                   |
| Macalester College                                | 770,782                         | 141              | 89              | Private                  |
| Colorado College                                  | 766,910                         | 142              | 90              | Private                  |
| Villanova University                              | 766,903                         | 143              | 91              | Private                  |
| Texas Tech University                             | 760,717                         | 144              | 53              | Public                   |
| University of Tennessee - Knoxville               | 750,492                         | 145              | 54              | Public                   |
| St. John's University (NY)                        | 748,873                         | 146              | 92              | Private                  |
| Rensselaer Polytechnic Institute                  | 739,648                         | 147              | 93              | Private                  |
| Fordham University                                | 733,516                         | 148              | 94              | Private                  |
| DePauw University                                 | 730,341                         | 149              | 95              | Private                  |
| American University                               | 723,369                         | 150              | 96              | Private                  |

## The Top 200 Institutions – Endowment Assets (2019)

| Top 151-200 Institutions<br>in Endowment Assets       | Endowment<br>Assets<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|-------------------------------------------------------|---------------------------------|------------------|-----------------|--------------------------|
| University of Louisville                              | 719,816                         | 151              | 55              | Public                   |
| Icahn School of Medicine at Mount Sinai               | 714,803                         | 152              | 97              | Private                  |
| University of South Carolina - Columbia               | 713,376                         | 153              | 56              | Public                   |
| Hillsdale College                                     | 710,283                         | 154              | 98              | Private                  |
| Principia College                                     | 707,266                         | 155              | 99              | Private                  |
| University of Colorado - Boulder                      | 705,656                         | 156              | 57              | Public                   |
| Florida State University                              | 704,106                         | 157              | 58              | Public                   |
| Marquette University                                  | 698,021                         | 158              | 100             | Private                  |
| DePaul University                                     | 696,452                         | 159              | 101             | Private                  |
| Furman University                                     | 694,272                         | 160              | 102             | Private                  |
| Howard University                                     | 692,832                         | 161              | 103             | Private                  |
| Loyola University Chicago                             | 692,166                         | 162              | 104             | Private                  |
| Yeshiva University                                    | 665,001                         | 163              | 105             | Private                  |
| University of Houston - University Park               | 658,493                         | 164              | 59              | Public                   |
| University of Maryland - College Park                 | 652,556                         | 165              | 60              | Public                   |
| University of Mississippi - Oxford                    | 647,934                         | 166              | 61              | Public                   |
| Temple University                                     | 644,089                         | 167              | 62              | Public                   |
| Oklahoma State University - Stillwater                | 642,500                         | 168              | 63              | Public                   |
| Trinity College (CT)                                  | 623,153                         | 169              | 106             | Private                  |
| Oregon State University                               | 622,473                         | 170              | 64              | Public                   |
| Hofstra University                                    | 622,235                         | 171              | 107             | Private                  |
| Rush University                                       | 620,253                         | 172              | 108             | Private                  |
| University of Texas Health Science Ctr. - San Antonio | 617,388                         | 173              | 65              | Public                   |
| Pennsylvania State University - Hershey Medical Ctr.  | 615,247                         | 174              | 66              | Public                   |
| University of Texas Medical Branch - Galveston        | 612,641                         | 175              | 67              | Public                   |
| University of Dayton                                  | 604,176                         | 176              | 109             | Private                  |
| West Virginia University                              | 589,835                         | 177              | 68              | Public                   |
| Creighton University                                  | 587,024                         | 178              | 110             | Private                  |
| Ohio University - Athens                              | 580,657                         | 179              | 69              | Public                   |
| Reed College                                          | 579,820                         | 180              | 111             | Private                  |
| University of South Alabama - Mobile                  | 568,793                         | 181              | 70              | Public                   |
| University of Vermont                                 | 566,714                         | 182              | 71              | Public                   |
| University of Oklahoma - Health Sciences Center       | 565,500                         | 183              | 72              | Public                   |
| Whitman College                                       | 565,256                         | 184              | 112             | Private                  |
| Miami University - Oxford                             | 560,965                         | 185              | 73              | Public                   |
| University of Texas - Dallas                          | 558,466                         | 186              | 74              | Public                   |
| Quinnipiac University                                 | 556,604                         | 187              | 113             | Private                  |
| University of Colorado - Denver/Anschutz Medical      | 552,885                         | 188              | 75              | Public                   |
| University of Texas Health Science Center - Houston   | 552,060                         | 189              | 76              | Public                   |
| University of San Diego                               | 545,552                         | 190              | 114             | Private                  |
| St. Olaf College                                      | 544,840                         | 191              | 115             | Private                  |
| University of St. Thomas (MN)                         | 540,611                         | 192              | 116             | Private                  |
| University of Wyoming                                 | 531,547                         | 193              | 77              | Public                   |
| Haverford College                                     | 529,487                         | 194              | 117             | Private                  |
| Mississippi State University                          | 528,679                         | 195              | 78              | Public                   |
| Worcester Polytechnic Institute                       | 528,287                         | 196              | 118             | Private                  |
| Louisiana State University - Baton Rouge              | 519,887                         | 197              | 79              | Public                   |
| University of Alabama - Birmingham                    | 519,025                         | 198              | 80              | Public                   |
| University of South Florida - Tampa                   | 513,545                         | 199              | 81              | Public                   |
| Virginia Military Institute                           | 512,179                         | 200              | 82              | Public                   |

## The Top 200 Institutions – Annual Giving (2019)

| Top 1-50 Institutions in Annual Giving           | Annual Giving<br>x \$1000 | National Rank | Control Rank | Institutional Control |
|--------------------------------------------------|---------------------------|---------------|--------------|-----------------------|
| Johns Hopkins University                         | 2,665,590                 | 1             | 1            | Private               |
| Harvard University                               | 1,378,968                 | 2             | 2            | Private               |
| Stanford University                              | 1,112,229                 | 3             | 3            | Private               |
| University of California - Los Angeles           | 733,013                   | 4             | 1            | Public                |
| University of Washington - Seattle               | 711,063                   | 5             | 2            | Public                |
| University of Southern California                | 687,363                   | 6             | 4            | Private               |
| Columbia University                              | 668,002                   | 7             | 5            | Private               |
| Yale University                                  | 657,109                   | 8             | 6            | Private               |
| University of Pennsylvania                       | 626,235                   | 9             | 7            | Private               |
| University of California - San Francisco         | 622,751                   | 10            | 3            | Public                |
| Massachusetts Institute of Technology            | 594,564                   | 11            | 8            | Private               |
| University of California - Berkeley              | 550,602                   | 12            | 4            | Public                |
| University of Chicago                            | 535,050                   | 13            | 9            | Private               |
| New York University                              | 517,771                   | 14            | 10           | Private               |
| Emory University                                 | 513,958                   | 15            | 11           | Private               |
| Duke University                                  | 507,090                   | 16            | 12           | Private               |
| University of Michigan - Ann Arbor               | 500,987                   | 17            | 5            | Public                |
| University of Notre Dame                         | 444,877                   | 18            | 13           | Private               |
| University of Texas - Austin                     | 423,913                   | 19            | 6            | Public                |
| University of North Carolina - Chapel Hill       | 412,669                   | 20            | 7            | Public                |
| Ohio State University - Columbus                 | 406,588                   | 21            | 8            | Public                |
| Washington University in St. Louis               | 406,133                   | 22            | 14           | Private               |
| Northwestern University                          | 390,138                   | 23            | 15           | Private               |
| University of Minnesota - Twin Cities            | 373,210                   | 24            | 9            | Public                |
| Cornell University                               | 358,077                   | 25            | 16           | Private               |
| University of Virginia                           | 342,867                   | 26            | 10           | Public                |
| Princeton University                             | 326,263                   | 27            | 17           | Private               |
| University of Miami                              | 294,135                   | 28            | 18           | Private               |
| University of Florida                            | 289,665                   | 29            | 11           | Public                |
| University of California - San Diego             | 289,034                   | 30            | 12           | Public                |
| Texas A&M University - College Station           | 287,998                   | 31            | 13           | Public                |
| University of Wisconsin - Madison                | 284,393                   | 32            | 14           | Public                |
| Dartmouth College                                | 279,890                   | 33            | 19           | Private               |
| University of Utah                               | 279,746                   | 34            | 15           | Public                |
| University of Oregon                             | 279,154                   | 35            | 16           | Public                |
| Arizona State University                         | 266,131                   | 36            | 17           | Public                |
| University of Arizona                            | 244,738                   | 37            | 18           | Public                |
| California Institute of Technology               | 240,241                   | 38            | 20           | Private               |
| Brown University                                 | 239,379                   | 39            | 21           | Private               |
| Indiana University - Bloomington                 | 236,740                   | 40            | 19           | Public                |
| Vanderbilt University                            | 226,809                   | 41            | 22           | Private               |
| University of Illinois - Urbana-Champaign        | 215,212                   | 42            | 20           | Public                |
| University of Kansas - Lawrence                  | 208,245                   | 43            | 21           | Public                |
| Purdue University - West Lafayette               | 190,858                   | 44            | 22           | Public                |
| University of California - Santa Barbara         | 182,898                   | 45            | 23           | Public                |
| University of California - Davis                 | 182,539                   | 46            | 24           | Public                |
| Michigan State University                        | 177,728                   | 47            | 25           | Public                |
| University of Colorado - Denver/Anschutz Medical | 175,877                   | 48            | 26           | Public                |
| Georgetown University                            | 172,119                   | 49            | 23           | Private               |
| Boston University                                | 170,862                   | 50            | 24           | Private               |

## The Top 200 Institutions – Annual Giving (2019)

| Top 51-100 Institutions in Annual Giving              | Annual Giving<br>x \$1000 | National Rank | Control Rank | Institutional Control |
|-------------------------------------------------------|---------------------------|---------------|--------------|-----------------------|
| Icahn School of Medicine at Mount Sinai               | 168,366                   | 51            | 25           | Private               |
| Rice University                                       | 160,405                   | 52            | 26           | Private               |
| North Carolina State University                       | 158,539                   | 53            | 27           | Public                |
| Boston College                                        | 157,391                   | 54            | 27           | Private               |
| Pennsylvania State University - University Park       | 153,738                   | 55            | 28           | Public                |
| Rutgers University - New Brunswick                    | 152,940                   | 56            | 29           | Public                |
| University of Maryland - College Park                 | 152,798                   | 57            | 30           | Public                |
| Indiana University - Purdue University - Indianapolis | 151,695                   | 58            | 31           | Public                |
| Carnegie Mellon University                            | 150,237                   | 59            | 28           | Private               |
| University of Texas SW Medical Center - Dallas        | 147,421                   | 60            | 32           | Public                |
| University of Iowa                                    | 144,574                   | 61            | 33           | Public                |
| University of Georgia                                 | 142,504                   | 62            | 34           | Public                |
| University of Pittsburgh - Pittsburgh                 | 142,451                   | 63            | 35           | Public                |
| University of Texas MD Anderson Cancer Center         | 137,227                   | 64            | 36           | Public                |
| University of Arkansas - Fayetteville                 | 136,604                   | 65            | 37           | Public                |
| Oregon Health & Science University                    | 136,236                   | 66            | 38           | Public                |
| University of Colorado - Boulder                      | 136,225                   | 67            | 39           | Public                |
| Georgia Institute of Technology                       | 132,774                   | 68            | 40           | Public                |
| University of Kentucky                                | 130,982                   | 69            | 41           | Public                |
| University of Alabama - Tuscaloosa                    | 127,783                   | 70            | 42           | Public                |
| Iowa State University                                 | 122,717                   | 71            | 43           | Public                |
| West Virginia University                              | 122,060                   | 72            | 44           | Public                |
| Virginia Polytechnic Institute and State University   | 119,795                   | 73            | 45           | Public                |
| University of Oklahoma - Norman                       | 119,126                   | 74            | 46           | Public                |
| University of Rochester                               | 117,629                   | 75            | 29           | Private               |
| University of Nebraska Medical Center                 | 117,117                   | 76            | 47           | Public                |
| University of California - Irvine                     | 115,600                   | 77            | 48           | Public                |
| University of Cincinnati - Cincinnati                 | 115,042                   | 78            | 49           | Public                |
| George Washington University                          | 113,273                   | 79            | 30           | Private               |
| Oregon State University                               | 112,749                   | 80            | 50           | Public                |
| Case Western Reserve University                       | 112,286                   | 81            | 31           | Private               |
| Louisiana State University - Baton Rouge              | 111,593                   | 82            | 51           | Public                |
| Wake Forest University                                | 110,854                   | 83            | 32           | Private               |
| University of Tennessee - Knoxville                   | 109,536                   | 84            | 52           | Public                |
| Tulane University                                     | 109,091                   | 85            | 33           | Private               |
| University of Nebraska - Lincoln                      | 107,651                   | 86            | 53           | Public                |
| Kansas State University                               | 105,237                   | 87            | 54           | Public                |
| University of South Carolina - Columbia               | 104,246                   | 88            | 55           | Public                |
| Mississippi State University                          | 103,050                   | 89            | 56           | Public                |
| Rockefeller University                                | 101,644                   | 90            | 34           | Private               |
| University of Missouri - Columbia                     | 100,290                   | 91            | 57           | Public                |
| Syracuse University                                   | 98,761                    | 92            | 35           | Private               |
| Washington State University - Pullman                 | 98,680                    | 93            | 58           | Public                |
| George Mason University                               | 97,695                    | 94            | 59           | Public                |
| Williams College                                      | 97,174                    | 95            | 36           | Private               |
| Auburn University                                     | 96,605                    | 96            | 60           | Public                |
| Clemson University                                    | 94,260                    | 97            | 61           | Public                |
| Santa Clara University                                | 93,606                    | 98            | 37           | Private               |
| Thomas Jefferson University                           | 93,490                    | 99            | 38           | Private               |
| Florida State University                              | 92,895                    | 100           | 62           | Public                |

## The Top 200 Institutions – Annual Giving (2019)

| Top 101-150 Institutions<br>in Annual Giving          | Annual<br>Giving<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|-------------------------------------------------------|------------------------------|------------------|-----------------|--------------------------|
| University of Alabama - Birmingham                    | 90,237                       | 101              | 63              | Public                   |
| Colby College                                         | 89,901                       | 102              | 39              | Private                  |
| San Diego State University                            | 89,466                       | 103              | 64              | Public                   |
| University of Houston - University Park               | 89,416                       | 104              | 65              | Public                   |
| Southern Methodist University                         | 87,725                       | 105              | 40              | Private                  |
| Tufts University                                      | 85,612                       | 106              | 41              | Private                  |
| Texas Tech University                                 | 84,173                       | 107              | 66              | Public                   |
| Northeastern University                               | 82,655                       | 108              | 42              | Private                  |
| Virginia Commonwealth University                      | 82,365                       | 109              | 67              | Public                   |
| University of Texas - Dallas                          | 82,020                       | 110              | 68              | Public                   |
| Baylor University                                     | 79,571                       | 111              | 43              | Private                  |
| University of Louisville                              | 77,321                       | 112              | 69              | Public                   |
| Villanova University                                  | 75,803                       | 113              | 44              | Private                  |
| University of Maryland - Baltimore                    | 75,305                       | 114              | 70              | Public                   |
| Weill Cornell Medical College                         | 75,234                       | 115              | 45              | Private                  |
| Oklahoma State University - Stillwater                | 71,089                       | 116              | 71              | Public                   |
| University of Texas Health Science Ctr. - San Antonio | 68,798                       | 117              | 72              | Public                   |
| Stony Brook University                                | 68,501                       | 118              | 73              | Public                   |
| University of St. Thomas (MN)                         | 68,133                       | 119              | 46              | Private                  |
| University of Mississippi - Oxford                    | 67,338                       | 120              | 74              | Public                   |
| Temple University                                     | 66,149                       | 121              | 75              | Public                   |
| University of South Florida - Tampa                   | 65,533                       | 122              | 76              | Public                   |
| University of Delaware                                | 64,419                       | 123              | 77              | Public                   |
| Texas Christian University                            | 63,988                       | 124              | 47              | Private                  |
| Vassar College                                        | 63,707                       | 125              | 48              | Private                  |
| University of Texas Medical Branch - Galveston        | 60,679                       | 126              | 78              | Public                   |
| University of New Mexico - Albuquerque                | 60,157                       | 127              | 79              | Public                   |
| University of North Texas                             | 59,175                       | 128              | 80              | Public                   |
| Lehigh University                                     | 58,967                       | 129              | 49              | Private                  |
| University at Buffalo                                 | 58,842                       | 130              | 81              | Public                   |
| University of Texas Health Science Center - Houston   | 58,347                       | 131              | 82              | Public                   |
| Rensselaer Polytechnic Institute                      | 57,776                       | 132              | 50              | Private                  |
| University of Denver                                  | 57,728                       | 133              | 51              | Private                  |
| Amherst College                                       | 57,586                       | 134              | 52              | Private                  |
| William & Mary                                        | 57,264                       | 135              | 83              | Public                   |
| University of Central Florida                         | 56,841                       | 136              | 84              | Public                   |
| Wellesley College                                     | 56,648                       | 137              | 53              | Private                  |
| Drexel University                                     | 55,737                       | 138              | 54              | Private                  |
| University of Connecticut - Storrs                    | 55,552                       | 139              | 85              | Public                   |
| University of Illinois - Chicago                      | 55,212                       | 140              | 86              | Public                   |
| Berea College                                         | 54,575                       | 141              | 55              | Private                  |
| Brandeis University                                   | 54,140                       | 142              | 56              | Private                  |
| University of Missouri - Kansas City                  | 54,128                       | 143              | 87              | Public                   |
| Saint Louis University - St. Louis                    | 53,469                       | 144              | 57              | Private                  |
| San Francisco State University                        | 53,275                       | 145              | 88              | Public                   |
| Davidson College                                      | 53,203                       | 146              | 58              | Private                  |
| U.S. Naval Academy                                    | 53,070                       | 147              | 89              | Public                   |
| Marquette University                                  | 52,227                       | 148              | 59              | Private                  |
| Seattle University                                    | 50,608                       | 149              | 60              | Private                  |
| Wayne State University                                | 50,499                       | 150              | 90              | Public                   |

## The Top 200 Institutions – Annual Giving (2019)

| Top 151-200 Institutions<br>in Annual Giving         | Annual<br>Giving<br>x \$1000 | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|------------------------------------------------------|------------------------------|------------------|-----------------|--------------------------|
| University of Kansas Medical Center                  | 49,740                       | 151              | 91              | Public                   |
| Claremont McKenna College                            | 48,320                       | 152              | 61              | Private                  |
| Fordham University                                   | 47,999                       | 153              | 62              | Private                  |
| Colorado State University - Fort Collins             | 47,548                       | 154              | 92              | Public                   |
| University of Nevada - Las Vegas                     | 47,261                       | 155              | 93              | Public                   |
| Creighton University                                 | 46,947                       | 156              | 63              | Private                  |
| University of Montana - Missoula                     | 46,711                       | 157              | 94              | Public                   |
| U.S. Military Academy                                | 46,676                       | 158              | 95              | Public                   |
| Middlebury College                                   | 46,337                       | 159              | 64              | Private                  |
| University of Nevada - Reno                          | 46,212                       | 160              | 96              | Public                   |
| Washington and Lee University                        | 45,978                       | 161              | 65              | Private                  |
| University of Hawaii - Manoa                         | 45,942                       | 162              | 97              | Public                   |
| University of Vermont                                | 45,710                       | 163              | 98              | Public                   |
| Carleton College                                     | 45,492                       | 164              | 66              | Private                  |
| Smith College                                        | 44,377                       | 165              | 67              | Private                  |
| Baylor College of Medicine                           | 44,086                       | 166              | 68              | Private                  |
| Medical University of South Carolina                 | 43,318                       | 167              | 99              | Public                   |
| Medical College of Wisconsin                         | 42,907                       | 168              | 69              | Private                  |
| Nova Southeastern University                         | 42,731                       | 169              | 70              | Private                  |
| University of Toledo                                 | 42,307                       | 170              | 100             | Public                   |
| University of Massachusetts - Amherst                | 41,175                       | 171              | 101             | Public                   |
| Wesleyan University                                  | 40,246                       | 172              | 71              | Private                  |
| Bucknell University                                  | 40,069                       | 173              | 72              | Private                  |
| Florida International University                     | 39,763                       | 174              | 102             | Public                   |
| Wheaton College (IL)                                 | 39,338                       | 175              | 73              | Private                  |
| Pennsylvania State University - Hershey Medical Ctr. | 39,180                       | 176              | 103             | Public                   |
| U.S. Air Force Academy                               | 39,165                       | 177              | 104             | Public                   |
| College of the Holy Cross                            | 39,076                       | 178              | 74              | Private                  |
| California Polytechnic State Univ. - San Luis Obispo | 38,891                       | 179              | 105             | Public                   |
| Miami University - Oxford                            | 38,448                       | 180              | 106             | Public                   |
| Colgate University                                   | 38,280                       | 181              | 75              | Private                  |
| Utah State University                                | 37,242                       | 182              | 107             | Public                   |
| Montana State University - Bozeman                   | 37,137                       | 183              | 108             | Public                   |
| University of Alaska - Fairbanks                     | 36,720                       | 184              | 109             | Public                   |
| University of Wyoming                                | 36,632                       | 185              | 110             | Public                   |
| University of the Pacific                            | 36,197                       | 186              | 76              | Private                  |
| University of Tulsa                                  | 36,196                       | 187              | 77              | Private                  |
| Ithaca College                                       | 35,965                       | 188              | 78              | Private                  |
| University of Massachusetts Medical Sch. - Worcester | 35,709                       | 189              | 111             | Public                   |
| Loyola Marymount University                          | 34,934                       | 190              | 79              | Private                  |
| Chapman University                                   | 34,477                       | 191              | 80              | Private                  |
| Bowdoin College                                      | 34,476                       | 192              | 81              | Private                  |
| Florida Atlantic University                          | 33,727                       | 193              | 112             | Public                   |
| Boise State University                               | 33,122                       | 194              | 113             | Public                   |
| Lafayette College                                    | 32,810                       | 195              | 82              | Private                  |
| Furman University                                    | 32,610                       | 196              | 83              | Private                  |
| Bryn Mawr College                                    | 31,729                       | 197              | 84              | Private                  |
| Yeshiva University                                   | 31,379                       | 198              | 85              | Private                  |
| University of San Francisco                          | 31,167                       | 199              | 86              | Private                  |
| University of California - Santa Cruz                | 31,070                       | 200              | 114             | Public                   |

## The Top 200 Institutions – National Academy Membership (2019)

| Top 1-49 Institutions in National Academy Membership | Number of Members | National Rank | Control Rank | Institutional Control |
|------------------------------------------------------|-------------------|---------------|--------------|-----------------------|
| Harvard University                                   | 428               | 1             | 1            | Private               |
| Stanford University                                  | 336               | 2             | 2            | Private               |
| Massachusetts Institute of Technology                | 283               | 3             | 3            | Private               |
| University of California - Berkeley                  | 237               | 4             | 1            | Public                |
| Columbia University                                  | 144               | 5             | 4            | Private               |
| University of California - San Francisco             | 140               | 6             | 2            | Public                |
| University of Pennsylvania                           | 136               | 7             | 5            | Private               |
| Yale University                                      | 129               | 8             | 6            | Private               |
| Princeton University                                 | 124               | 9             | 7            | Private               |
| Johns Hopkins University                             | 120               | 10            | 8            | Private               |
| University of Michigan - Ann Arbor                   | 120               | 10            | 3            | Public                |
| University of California - San Diego                 | 119               | 12            | 4            | Public                |
| California Institute of Technology                   | 116               | 13            | 9            | Private               |
| University of California - Los Angeles               | 109               | 14            | 5            | Public                |
| University of Washington - Seattle                   | 104               | 15            | 6            | Public                |
| University of Chicago                                | 75                | 16            | 10           | Private               |
| Duke University                                      | 73                | 17            | 11           | Private               |
| University of Wisconsin - Madison                    | 71                | 18            | 7            | Public                |
| Cornell University                                   | 69                | 19            | 12           | Private               |
| University of Texas - Austin                         | 69                | 19            | 8            | Public                |
| New York University                                  | 60                | 21            | 13           | Private               |
| Washington University in St. Louis                   | 56                | 22            | 14           | Private               |
| Northwestern University                              | 53                | 23            | 15           | Private               |
| University of California - Santa Barbara             | 53                | 23            | 9            | Public                |
| Rockefeller University                               | 51                | 25            | 16           | Private               |
| University of Illinois - Urbana-Champaign            | 50                | 26            | 10           | Public                |
| University of California - Davis                     | 48                | 27            | 11           | Public                |
| Texas A&M University - College Station               | 45                | 28            | 12           | Public                |
| University of Minnesota - Twin Cities                | 45                | 28            | 12           | Public                |
| University of Southern California                    | 44                | 30            | 17           | Private               |
| Carnegie Mellon University                           | 41                | 31            | 18           | Private               |
| Rutgers University - New Brunswick                   | 38                | 32            | 14           | Public                |
| University of North Carolina - Chapel Hill           | 38                | 32            | 14           | Public                |
| Georgia Institute of Technology                      | 35                | 34            | 16           | Public                |
| University of California - Irvine                    | 35                | 34            | 16           | Public                |
| University of Texas SW Medical Center - Dallas       | 35                | 34            | 16           | Public                |
| University of Colorado - Boulder                     | 34                | 37            | 19           | Public                |
| Vanderbilt University                                | 34                | 37            | 19           | Private               |
| Emory University                                     | 33                | 39            | 20           | Private               |
| Ohio State University - Columbus                     | 33                | 39            | 20           | Public                |
| University of Arizona                                | 32                | 41            | 21           | Public                |
| Pennsylvania State University - University Park      | 30                | 42            | 22           | Public                |
| Scripps Research Institute                           | 30                | 42            | 21           | Private               |
| University of Pittsburgh - Pittsburgh                | 29                | 44            | 23           | Public                |
| Purdue University - West Lafayette                   | 28                | 45            | 24           | Public                |
| Gerstner Sloan-Kettering Grad. Sch. of Biomed Sci.   | 27                | 46            | 22           | Private               |
| University of Florida                                | 27                | 46            | 25           | Public                |
| University of Maryland - College Park                | 27                | 46            | 25           | Public                |
| Icahn School of Medicine at Mount Sinai              | 25                | 49            | 23           | Private               |

## The Top 200 Institutions – National Academy Membership (2019)

| Top 50-95 Institutions in<br>National Academy Membership | Number<br>of Members | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|----------------------------------------------------------|----------------------|------------------|-----------------|--------------------------|
| Arizona State University                                 | 24                   | 50               | 27              | Public                   |
| Brown University                                         | 24                   | 50               | 24              | Private                  |
| North Carolina State University                          | 24                   | 50               | 27              | Public                   |
| University of Utah                                       | 24                   | 50               | 27              | Public                   |
| Baylor College of Medicine                               | 23                   | 54               | 25              | Private                  |
| University of Iowa                                       | 23                   | 54               | 30              | Public                   |
| Rice University                                          | 22                   | 56               | 26              | Private                  |
| University of Virginia                                   | 22                   | 56               | 31              | Public                   |
| Weill Cornell Medical College                            | 22                   | 56               | 26              | Private                  |
| Boston University                                        | 21                   | 59               | 28              | Private                  |
| Case Western Reserve University                          | 20                   | 60               | 29              | Private                  |
| University of Rochester                                  | 19                   | 61               | 30              | Private                  |
| Indiana University - Bloomington                         | 16                   | 62               | 32              | Public                   |
| Dartmouth College                                        | 15                   | 63               | 31              | Private                  |
| Michigan State University                                | 15                   | 63               | 33              | Public                   |
| University of Houston - University Park                  | 15                   | 63               | 33              | Public                   |
| Stony Brook University                                   | 14                   | 66               | 35              | Public                   |
| University of Colorado - Denver/Anschutz Medical         | 14                   | 66               | 35              | Public                   |
| University of Texas MD Anderson Cancer Center            | 14                   | 66               | 35              | Public                   |
| Oregon Health & Science University                       | 13                   | 69               | 38              | Public                   |
| Yeshiva University                                       | 13                   | 69               | 32              | Private                  |
| University of California - Santa Cruz                    | 12                   | 71               | 39              | Public                   |
| University of Miami                                      | 12                   | 71               | 33              | Private                  |
| Virginia Polytechnic Institute and State University      | 12                   | 71               | 39              | Public                   |
| Georgetown University                                    | 11                   | 74               | 34              | Private                  |
| University of California - Riverside                     | 11                   | 74               | 41              | Public                   |
| University of Hawaii - Manoa                             | 11                   | 74               | 41              | Public                   |
| University of Oregon                                     | 11                   | 74               | 41              | Public                   |
| Brandeis University                                      | 10                   | 78               | 35              | Private                  |
| Colorado State University - Fort Collins                 | 10                   | 78               | 44              | Public                   |
| George Washington University                             | 10                   | 78               | 35              | Private                  |
| University of Missouri - Columbia                        | 10                   | 78               | 44              | Public                   |
| University of South Florida - Tampa                      | 10                   | 78               | 44              | Public                   |
| City University of NY - City College                     | 9                    | 83               | 47              | Public                   |
| University of Delaware                                   | 9                    | 83               | 47              | Public                   |
| University of Georgia                                    | 9                    | 83               | 47              | Public                   |
| University of Maryland - Baltimore                       | 9                    | 83               | 47              | Public                   |
| University of Massachusetts - Amherst                    | 9                    | 83               | 47              | Public                   |
| University of Massachusetts Medical Sch. - Worcester     | 9                    | 83               | 47              | Public                   |
| Washington State University - Pullman                    | 9                    | 83               | 47              | Public                   |
| Florida State University                                 | 8                    | 90               | 54              | Public                   |
| Iowa State University                                    | 8                    | 90               | 54              | Public                   |
| Tufts University                                         | 8                    | 90               | 37              | Private                  |
| University of Alabama - Birmingham                       | 8                    | 90               | 54              | Public                   |
| University of Cincinnati - Cincinnati                    | 8                    | 90               | 54              | Public                   |
| Rensselaer Polytechnic Institute                         | 7                    | 95               | 38              | Private                  |
| University at Buffalo                                    | 7                    | 95               | 58              | Public                   |
| University of Tennessee - Knoxville                      | 7                    | 95               | 58              | Public                   |
| Virginia Commonwealth University                         | 7                    | 95               | 58              | Public                   |

### The Top 200 Institutions – National Academy Membership (2019)

| Top 99-124 Institutions in<br>National Academy Membership | Number<br>of Members | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|-----------------------------------------------------------|----------------------|------------------|-----------------|--------------------------|
| Cold Spring Harbor Laboratory                             | 6                    | 99               | 39              | Private                  |
| Drexel University                                         | 6                    | 99               | 39              | Private                  |
| Howard University                                         | 6                    | 99               | 39              | Private                  |
| University of Central Florida                             | 6                    | 99               | 61              | Public                   |
| University of Illinois - Chicago                          | 6                    | 99               | 61              | Public                   |
| University of Texas Health Science Center - Houston       | 6                    | 99               | 61              | Public                   |
| University of Texas Health Science Ctr. - San Antonio     | 6                    | 99               | 61              | Public                   |
| Wake Forest University                                    | 6                    | 99               | 39              | Private                  |
| Lehigh University                                         | 5                    | 107              | 43              | Private                  |
| Mayo Clinic School of Medicine and Science                | 5                    | 107              | 43              | Private                  |
| Morehouse School of Medicine                              | 5                    | 107              | 43              | Private                  |
| Northeastern University                                   | 5                    | 107              | 43              | Private                  |
| Temple University                                         | 5                    | 107              | 65              | Public                   |
| Texas Tech University                                     | 5                    | 107              | 65              | Public                   |
| University of Kansas - Lawrence                           | 5                    | 107              | 65              | Public                   |
| University of New Mexico - Albuquerque                    | 5                    | 107              | 65              | Public                   |
| University of Texas - Arlington                           | 5                    | 107              | 65              | Public                   |
| Boston College                                            | 4                    | 116              | 47              | Private                  |
| Colorado School of Mines                                  | 4                    | 116              | 70              | Public                   |
| Illinois Institute of Technology                          | 4                    | 116              | 47              | Private                  |
| Medical University of South Carolina                      | 4                    | 116              | 70              | Public                   |
| Oregon State University                                   | 4                    | 116              | 70              | Public                   |
| Southern Methodist University                             | 4                    | 116              | 47              | Private                  |
| Thomas Jefferson University                               | 4                    | 116              | 47              | Private                  |
| University of Arkansas - Fayetteville                     | 4                    | 116              | 70              | Public                   |
| Clark University (MA)                                     | 3                    | 124              | 51              | Private                  |
| Clemson University                                        | 3                    | 124              | 74              | Public                   |
| Florida International University                          | 3                    | 124              | 74              | Public                   |
| Hofstra University                                        | 3                    | 124              | 51              | Private                  |
| Louisiana State University - Baton Rouge                  | 3                    | 124              | 74              | Public                   |
| Oklahoma State University - Stillwater                    | 3                    | 124              | 74              | Public                   |
| Pennsylvania State University - Hershey Medical Ctr.      | 3                    | 124              | 74              | Public                   |
| Rush University                                           | 3                    | 124              | 51              | Private                  |
| Rutgers University - Newark                               | 3                    | 124              | 74              | Public                   |
| Tulane University                                         | 3                    | 124              | 51              | Private                  |
| Uniformed Services University of the Health Sciences      | 3                    | 124              | 74              | Public                   |
| University of Connecticut - Health Center                 | 3                    | 124              | 74              | Public                   |
| University of Notre Dame                                  | 3                    | 124              | 51              | Private                  |
| University of Texas - Dallas                              | 3                    | 124              | 74              | Public                   |
| Wayne State University                                    | 3                    | 124              | 74              | Public                   |
| Woods Hole Oceanographic Institution                      | 3                    | 124              | 51              | Private                  |

### The Top 200 Institutions – National Academy Membership (2019)

| Institutions with 2<br>National Academy Members | Number<br>of Members | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|-------------------------------------------------|----------------------|------------------|-----------------|--------------------------|
| Binghamton University                           | 2                    | 140              | 84              | Public                   |
| Brigham Young University - Provo                | 2                    | 140              | 57              | Private                  |
| Chapman University                              | 2                    | 140              | 57              | Private                  |
| Drew University                                 | 2                    | 140              | 57              | Private                  |
| Florida Atlantic University                     | 2                    | 140              | 84              | Public                   |
| George Mason University                         | 2                    | 140              | 84              | Public                   |
| Medical College of Wisconsin                    | 2                    | 140              | 57              | Private                  |
| Meharry Medical College                         | 2                    | 140              | 57              | Private                  |
| Montana State University - Bozeman              | 2                    | 140              | 84              | Public                   |
| Naval Postgraduate School                       | 2                    | 140              | 84              | Public                   |
| Stevens Institute of Technology                 | 2                    | 140              | 57              | Private                  |
| University of Arkansas - Little Rock            | 2                    | 140              | 84              | Public                   |
| University of Kansas Medical Center             | 2                    | 140              | 84              | Public                   |
| University of Kentucky                          | 2                    | 140              | 84              | Public                   |
| University of Nevada - Reno                     | 2                    | 140              | 84              | Public                   |
| University of Texas Medical Branch - Galveston  | 2                    | 140              | 84              | Public                   |
| University of Vermont                           | 2                    | 140              | 84              | Public                   |
| University of Wyoming                           | 2                    | 140              | 84              | Public                   |
| West Virginia University                        | 2                    | 140              | 84              | Public                   |

## The Top 200 Institutions – Faculty Awards (2019)

| Top 1-52 Institutions<br>in Faculty Awards          | Number<br>of Awards | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|-----------------------------------------------------|---------------------|------------------|-----------------|--------------------------|
| Harvard University                                  | 76                  | 1                | 1               | Private                  |
| University of Michigan - Ann Arbor                  | 56                  | 2                | 1               | Public                   |
| Stanford University                                 | 51                  | 3                | 2               | Private                  |
| University of Washington - Seattle                  | 46                  | 4                | 2               | Public                   |
| University of California - Berkeley                 | 45                  | 5                | 3               | Public                   |
| Columbia University                                 | 41                  | 6                | 3               | Private                  |
| University of Pennsylvania                          | 41                  | 6                | 3               | Private                  |
| University of Illinois - Urbana-Champaign           | 32                  | 8                | 4               | Public                   |
| University of Minnesota - Twin Cities               | 31                  | 9                | 5               | Public                   |
| Yale University                                     | 31                  | 9                | 5               | Private                  |
| Massachusetts Institute of Technology               | 30                  | 11               | 6               | Private                  |
| Northwestern University                             | 30                  | 11               | 6               | Private                  |
| Pennsylvania State University - University Park     | 30                  | 11               | 6               | Public                   |
| Princeton University                                | 30                  | 11               | 6               | Private                  |
| New York University                                 | 29                  | 15               | 9               | Private                  |
| University of California - Davis                    | 29                  | 15               | 7               | Public                   |
| Arizona State University                            | 28                  | 17               | 8               | Public                   |
| Purdue University - West Lafayette                  | 28                  | 17               | 8               | Public                   |
| University of California - Los Angeles              | 27                  | 19               | 10              | Public                   |
| University of Chicago                               | 27                  | 19               | 10              | Private                  |
| University of California - San Diego                | 26                  | 21               | 11              | Public                   |
| University of North Carolina - Chapel Hill          | 26                  | 21               | 11              | Public                   |
| University of Wisconsin - Madison                   | 26                  | 21               | 11              | Public                   |
| University of California - San Francisco            | 24                  | 24               | 14              | Public                   |
| Cornell University                                  | 23                  | 25               | 11              | Private                  |
| Johns Hopkins University                            | 23                  | 25               | 11              | Private                  |
| University of Southern California                   | 23                  | 25               | 11              | Private                  |
| Duke University                                     | 22                  | 28               | 14              | Private                  |
| Texas A&M University - College Station              | 21                  | 29               | 15              | Public                   |
| Vanderbilt University                               | 21                  | 29               | 15              | Private                  |
| North Carolina State University                     | 20                  | 31               | 16              | Public                   |
| University of Massachusetts - Amherst               | 20                  | 31               | 16              | Public                   |
| University of Pittsburgh - Pittsburgh               | 20                  | 31               | 16              | Public                   |
| University of Virginia                              | 20                  | 31               | 16              | Public                   |
| Washington University in St. Louis                  | 20                  | 31               | 16              | Private                  |
| Michigan State University                           | 19                  | 36               | 20              | Public                   |
| University of Colorado - Boulder                    | 19                  | 36               | 20              | Public                   |
| University of Texas - Austin                        | 19                  | 36               | 20              | Public                   |
| Georgia Institute of Technology                     | 17                  | 39               | 23              | Public                   |
| Rutgers University - New Brunswick                  | 17                  | 39               | 23              | Public                   |
| University of California - Irvine                   | 17                  | 39               | 23              | Public                   |
| University of Maryland - College Park               | 17                  | 39               | 23              | Public                   |
| Brown University                                    | 16                  | 43               | 17              | Private                  |
| University of California - Santa Barbara            | 16                  | 43               | 27              | Public                   |
| University of Rochester                             | 16                  | 43               | 17              | Private                  |
| Virginia Polytechnic Institute and State University | 16                  | 43               | 27              | Public                   |
| Emory University                                    | 15                  | 47               | 19              | Private                  |
| University at Buffalo                               | 15                  | 47               | 29              | Public                   |
| University of Connecticut - Storrs                  | 15                  | 47               | 29              | Public                   |
| University of Notre Dame                            | 15                  | 47               | 19              | Private                  |
| University of Utah                                  | 15                  | 47               | 29              | Public                   |
| Boston University                                   | 14                  | 52               | 21              | Private                  |
| Colorado State University - Fort Collins            | 14                  | 52               | 32              | Public                   |
| Florida State University                            | 14                  | 52               | 32              | Public                   |
| University of Kentucky                              | 14                  | 52               | 32              | Public                   |
| University of New Mexico - Albuquerque              | 14                  | 52               | 32              | Public                   |

## The Top 200 Institutions – Faculty Awards (2019)

| Top 57-97 Institutions<br>in Faculty Awards          | Number<br>of Awards | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|------------------------------------------------------|---------------------|------------------|-----------------|--------------------------|
| Dartmouth College                                    | 13                  | 57               | 22              | Private                  |
| Ohio State University - Columbus                     | 13                  | 57               | 36              | Public                   |
| University of Florida                                | 13                  | 57               | 36              | Public                   |
| University of Georgia                                | 13                  | 57               | 36              | Public                   |
| University of South Florida - Tampa                  | 13                  | 57               | 36              | Public                   |
| Carnegie Mellon University                           | 12                  | 62               | 23              | Private                  |
| Case Western Reserve University                      | 12                  | 62               | 23              | Private                  |
| Drexel University                                    | 12                  | 62               | 23              | Private                  |
| Iowa State University                                | 12                  | 62               | 40              | Public                   |
| Oregon State University                              | 12                  | 62               | 40              | Public                   |
| University of Tennessee - Knoxville                  | 12                  | 62               | 40              | Public                   |
| Florida International University                     | 11                  | 68               | 43              | Public                   |
| Northeastern University                              | 11                  | 68               | 26              | Private                  |
| University of Arizona                                | 11                  | 68               | 43              | Public                   |
| University of California - Riverside                 | 11                  | 68               | 43              | Public                   |
| University of Central Florida                        | 11                  | 68               | 43              | Public                   |
| University of Iowa                                   | 11                  | 68               | 43              | Public                   |
| Washington State University - Pullman                | 11                  | 68               | 43              | Public                   |
| California Institute of Technology                   | 10                  | 75               | 27              | Private                  |
| Colorado School of Mines                             | 10                  | 75               | 49              | Public                   |
| George Mason University                              | 10                  | 75               | 49              | Public                   |
| Icahn School of Medicine at Mount Sinai              | 10                  | 75               | 27              | Private                  |
| Indiana University - Bloomington                     | 10                  | 75               | 49              | Public                   |
| Stony Brook University                               | 10                  | 75               | 49              | Public                   |
| University of Nebraska - Lincoln                     | 10                  | 75               | 49              | Public                   |
| University of Nevada - Reno                          | 10                  | 75               | 49              | Public                   |
| George Washington University                         | 9                   | 83               | 29              | Private                  |
| Mayo Clinic School of Medicine and Science           | 9                   | 83               | 29              | Private                  |
| University of Cincinnati - Cincinnati                | 9                   | 83               | 55              | Public                   |
| University of Hawaii - Manoa                         | 9                   | 83               | 55              | Public                   |
| University of Kansas - Lawrence                      | 9                   | 83               | 55              | Public                   |
| University of Massachusetts Medical Sch. - Worcester | 9                   | 83               | 55              | Public                   |
| University of Missouri - Columbia                    | 9                   | 83               | 55              | Public                   |
| West Virginia University                             | 9                   | 83               | 55              | Public                   |
| Clemson University                                   | 8                   | 91               | 61              | Public                   |
| Syracuse University                                  | 8                   | 91               | 31              | Private                  |
| Temple University                                    | 8                   | 91               | 61              | Public                   |
| University of Alabama - Tuscaloosa                   | 8                   | 91               | 61              | Public                   |
| University of California - Santa Cruz                | 8                   | 91               | 61              | Public                   |
| University of Texas - San Antonio                    | 8                   | 91               | 61              | Public                   |
| Scripps Research Institute                           | 7                   | 97               | 32              | Private                  |
| Texas Tech University                                | 7                   | 97               | 66              | Public                   |
| University at Albany                                 | 7                   | 97               | 66              | Public                   |
| University of Arkansas - Fayetteville                | 7                   | 97               | 66              | Public                   |
| University of Colorado - Denver/Anschutz Medical     | 7                   | 97               | 66              | Public                   |
| University of Illinois - Chicago                     | 7                   | 97               | 66              | Public                   |
| University of Oregon                                 | 7                   | 97               | 66              | Public                   |
| University of Texas - Dallas                         | 7                   | 97               | 66              | Public                   |
| University of Texas SW Medical Center - Dallas       | 7                   | 97               | 66              | Public                   |
| Virginia Commonwealth University                     | 7                   | 97               | 66              | Public                   |
| Weill Cornell Medical College                        | 7                   | 97               | 32              | Private                  |

### The Top 200 Institutions – Faculty Awards (2019)

| Top 108-131 Institutions<br>in Faculty Awards         | Number<br>of Awards | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|-------------------------------------------------------|---------------------|------------------|-----------------|--------------------------|
| Boston College                                        | 6                   | 108              | 34              | Private                  |
| Georgetown University                                 | 6                   | 108              | 34              | Private                  |
| Oklahoma State University - Stillwater                | 6                   | 108              | 75              | Public                   |
| Old Dominion University                               | 6                   | 108              | 75              | Public                   |
| Oregon Health & Science University                    | 6                   | 108              | 75              | Public                   |
| University of Akron - Akron                           | 6                   | 108              | 75              | Public                   |
| University of Houston - University Park               | 6                   | 108              | 75              | Public                   |
| University of Miami                                   | 6                   | 108              | 34              | Private                  |
| University of South Carolina - Columbia               | 6                   | 108              | 75              | Public                   |
| Utah State University                                 | 6                   | 108              | 75              | Public                   |
| William & Mary                                        | 6                   | 108              | 75              | Public                   |
| Appalachian State University                          | 5                   | 119              | 83              | Public                   |
| Embry Riddle Aeronautical Univ. - Daytona Beach       | 5                   | 119              | 37              | Private                  |
| Kansas State University                               | 5                   | 119              | 83              | Public                   |
| Montana State University - Bozeman                    | 5                   | 119              | 83              | Public                   |
| Rensselaer Polytechnic Institute                      | 5                   | 119              | 37              | Private                  |
| Rice University                                       | 5                   | 119              | 37              | Private                  |
| Rockefeller University                                | 5                   | 119              | 37              | Private                  |
| Tulane University                                     | 5                   | 119              | 37              | Private                  |
| University of Idaho                                   | 5                   | 119              | 83              | Public                   |
| University of Texas MD Anderson Cancer Center         | 5                   | 119              | 83              | Public                   |
| University of Vermont                                 | 5                   | 119              | 83              | Public                   |
| Wayne State University                                | 5                   | 119              | 83              | Public                   |
| American University                                   | 4                   | 131              | 42              | Private                  |
| Bard College (NY)                                     | 4                   | 131              | 42              | Private                  |
| Binghamton University                                 | 4                   | 131              | 90              | Public                   |
| Brandeis University                                   | 4                   | 131              | 42              | Private                  |
| Bryn Mawr College                                     | 4                   | 131              | 42              | Private                  |
| DePaul University                                     | 4                   | 131              | 42              | Private                  |
| Indiana University - Purdue University - Indianapolis | 4                   | 131              | 90              | Public                   |
| Kenyon College                                        | 4                   | 131              | 42              | Private                  |
| Lehigh University                                     | 4                   | 131              | 42              | Private                  |
| Louisiana State University - Baton Rouge              | 4                   | 131              | 90              | Public                   |
| Michigan Technological University                     | 4                   | 131              | 90              | Public                   |
| New Jersey Institute of Technology                    | 4                   | 131              | 90              | Public                   |
| Northern Arizona University                           | 4                   | 131              | 90              | Public                   |
| San Diego State University                            | 4                   | 131              | 90              | Public                   |
| Thomas Jefferson University                           | 4                   | 131              | 42              | Private                  |
| University of California - Merced                     | 4                   | 131              | 90              | Public                   |
| University of Delaware                                | 4                   | 131              | 90              | Public                   |
| University of Massachusetts - Boston                  | 4                   | 131              | 90              | Public                   |
| University of Massachusetts - Lowell                  | 4                   | 131              | 90              | Public                   |
| University of New Hampshire - Durham                  | 4                   | 131              | 90              | Public                   |
| University of North Texas                             | 4                   | 131              | 90              | Public                   |
| University of Oklahoma - Norman                       | 4                   | 131              | 90              | Public                   |
| University of Rhode Island                            | 4                   | 131              | 90              | Public                   |
| University of Texas - Arlington                       | 4                   | 131              | 90              | Public                   |
| University of Toledo                                  | 4                   | 131              | 90              | Public                   |
| Villanova University                                  | 4                   | 131              | 42              | Private                  |
| Wake Forest University                                | 4                   | 131              | 42              | Private                  |
| Western Washington University                         | 4                   | 131              | 90              | Public                   |
| Worcester Polytechnic Institute                       | 4                   | 131              | 42              | Private                  |

## The Top 200 Institutions – Faculty Awards (2019)

| Institutions with 3<br>Faculty Awards                | Number<br>of Awards | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|------------------------------------------------------|---------------------|------------------|-----------------|--------------------------|
| Auburn University                                    | 3                   | 160              | 108             | Public                   |
| Baylor College of Medicine                           | 3                   | 160              | 53              | Private                  |
| Baylor University                                    | 3                   | 160              | 53              | Private                  |
| Boise State University                               | 3                   | 160              | 108             | Public                   |
| Bowdoin College                                      | 3                   | 160              | 53              | Private                  |
| Bowling Green State University - Bowling Green       | 3                   | 160              | 108             | Public                   |
| Brigham Young University - Provo                     | 3                   | 160              | 53              | Private                  |
| California State University - Los Angeles            | 3                   | 160              | 108             | Public                   |
| California State University - Sacramento             | 3                   | 160              | 108             | Public                   |
| City University of NY - Brooklyn College             | 3                   | 160              | 108             | Public                   |
| City University of NY - City College                 | 3                   | 160              | 108             | Public                   |
| Coastal Carolina University                          | 3                   | 160              | 108             | Public                   |
| Cold Spring Harbor Laboratory                        | 3                   | 160              | 53              | Private                  |
| Fordham University                                   | 3                   | 160              | 53              | Private                  |
| Georgia State University                             | 3                   | 160              | 108             | Public                   |
| Grand Valley State University                        | 3                   | 160              | 108             | Public                   |
| Harvey Mudd College                                  | 3                   | 160              | 53              | Private                  |
| Howard University                                    | 3                   | 160              | 53              | Private                  |
| Loyola Marymount University                          | 3                   | 160              | 53              | Private                  |
| Loyola University Chicago                            | 3                   | 160              | 53              | Private                  |
| Macalester College                                   | 3                   | 160              | 53              | Private                  |
| Montclair State University                           | 3                   | 160              | 108             | Public                   |
| Morehouse College                                    | 3                   | 160              | 53              | Private                  |
| Oberlin College                                      | 3                   | 160              | 53              | Private                  |
| Pennsylvania State University - Hershey Medical Ctr. | 3                   | 160              | 108             | Public                   |
| Portland State University                            | 3                   | 160              | 108             | Public                   |
| Quinnipiac University                                | 3                   | 160              | 53              | Private                  |
| Rochester Institute of Technology                    | 3                   | 160              | 53              | Private                  |
| Rowan University                                     | 3                   | 160              | 108             | Public                   |
| Saint Louis University - St. Louis                   | 3                   | 160              | 53              | Private                  |
| San Francisco State University                       | 3                   | 160              | 108             | Public                   |
| San Jose State University                            | 3                   | 160              | 108             | Public                   |
| Southern Methodist University                        | 3                   | 160              | 53              | Private                  |
| Stetson University                                   | 3                   | 160              | 53              | Private                  |
| Texas State University                               | 3                   | 160              | 108             | Public                   |
| Towson University                                    | 3                   | 160              | 108             | Public                   |
| Trinity College (CT)                                 | 3                   | 160              | 53              | Private                  |
| Tufts University                                     | 3                   | 160              | 53              | Private                  |
| University of Maryland - Baltimore                   | 3                   | 160              | 108             | Public                   |
| University of Michigan - Dearborn                    | 3                   | 160              | 108             | Public                   |
| University of Mississippi - Oxford                   | 3                   | 160              | 108             | Public                   |

## The Top 200 Institutions – Doctorates Awarded (2019)

| Top 1-50 Institutions<br>in Doctorates Awarded       | Number<br>of Degrees | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|------------------------------------------------------|----------------------|------------------|-----------------|--------------------------|
| University of Southern California                    | 917                  | 1                | 1               | Private                  |
| Ohio State University - Columbus                     | 886                  | 2                | 1               | Public                   |
| University of California - Berkeley                  | 881                  | 3                | 2               | Public                   |
| University of Texas - Austin                         | 873                  | 4                | 3               | Public                   |
| University of Wisconsin - Madison                    | 829                  | 5                | 4               | Public                   |
| University of Michigan - Ann Arbor                   | 827                  | 6                | 5               | Public                   |
| University of Illinois - Urbana-Champaign            | 814                  | 7                | 6               | Public                   |
| Texas A&M University - College Station               | 774                  | 8                | 7               | Public                   |
| Harvard University                                   | 771                  | 9                | 2               | Private                  |
| Stanford University                                  | 770                  | 10               | 3               | Private                  |
| University of Minnesota - Twin Cities                | 751                  | 11               | 8               | Public                   |
| University of Florida                                | 750                  | 12               | 9               | Public                   |
| Rutgers University - New Brunswick                   | 744                  | 13               | 10              | Public                   |
| University of California - Los Angeles               | 733                  | 14               | 11              | Public                   |
| Purdue University - West Lafayette                   | 730                  | 15               | 12              | Public                   |
| University of Washington - Seattle                   | 729                  | 16               | 13              | Public                   |
| Arizona State University                             | 714                  | 17               | 14              | Public                   |
| Massachusetts Institute of Technology                | 687                  | 18               | 4               | Private                  |
| Nova Southeastern University                         | 682                  | 19               | 5               | Private                  |
| Pennsylvania State University - University Park      | 632                  | 20               | 15              | Public                   |
| University of Maryland - College Park                | 612                  | 21               | 16              | Public                   |
| Columbia University                                  | 576                  | 22               | 6               | Private                  |
| North Carolina State University                      | 571                  | 23               | 17              | Public                   |
| Michigan State University                            | 562                  | 24               | 18              | Public                   |
| Duke University                                      | 551                  | 25               | 7               | Private                  |
| University of Pennsylvania                           | 548                  | 26               | 8               | Private                  |
| University of California - Davis                     | 546                  | 27               | 19              | Public                   |
| Johns Hopkins University                             | 537                  | 28               | 9               | Private                  |
| Cornell University                                   | 531                  | 29               | 10              | Private                  |
| University of California - San Diego                 | 528                  | 30               | 20              | Public                   |
| Georgia Institute of Technology                      | 526                  | 31               | 21              | Public                   |
| Northwestern University                              | 518                  | 32               | 11              | Private                  |
| University of North Carolina - Chapel Hill           | 514                  | 33               | 22              | Public                   |
| Indiana University - Bloomington                     | 504                  | 34               | 23              | Public                   |
| Boston University                                    | 491                  | 35               | 12              | Private                  |
| University of Georgia                                | 488                  | 36               | 24              | Public                   |
| Virginia Polytechnic Institute and State University  | 469                  | 37               | 25              | Public                   |
| University of Arizona                                | 448                  | 38               | 26              | Public                   |
| University of South Carolina - Columbia              | 431                  | 39               | 27              | Public                   |
| New York University                                  | 430                  | 40               | 13              | Private                  |
| Yale University                                      | 430                  | 40               | 13              | Private                  |
| University of Missouri - Columbia                    | 426                  | 42               | 28              | Public                   |
| University of Chicago                                | 423                  | 43               | 15              | Private                  |
| Florida State University                             | 422                  | 44               | 29              | Public                   |
| University of Iowa                                   | 418                  | 45               | 30              | Public                   |
| Iowa State University                                | 416                  | 46               | 31              | Public                   |
| University of Colorado - Boulder                     | 409                  | 47               | 32              | Public                   |
| University of California - Irvine                    | 407                  | 48               | 33              | Public                   |
| Princeton University                                 | 398                  | 49               | 16              | Private                  |
| City University of NY - Graduate Sch. and Univ. Ctr. | 393                  | 50               | 34              | Public                   |

## The Top 200 Institutions – Doctorates Awarded (2019)

| Top 51-100 Institutions<br>in Doctorates Awarded | Number<br>of Degrees | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|--------------------------------------------------|----------------------|------------------|-----------------|--------------------------|
| University of Pittsburgh - Pittsburgh            | 391                  | 51               | 35              | Public                   |
| University at Buffalo                            | 387                  | 52               | 36              | Public                   |
| University of Tennessee - Knoxville              | 383                  | 53               | 37              | Public                   |
| University of Utah                               | 376                  | 54               | 38              | Public                   |
| University of South Florida - Tampa              | 373                  | 55               | 39              | Public                   |
| Stony Brook University                           | 367                  | 56               | 40              | Public                   |
| Virginia Commonwealth University                 | 353                  | 57               | 41              | Public                   |
| University of Massachusetts - Amherst            | 350                  | 58               | 42              | Public                   |
| University of Houston - University Park          | 346                  | 59               | 43              | Public                   |
| University of Illinois - Chicago                 | 343                  | 60               | 44              | Public                   |
| University of Virginia                           | 343                  | 60               | 44              | Public                   |
| Texas Tech University                            | 340                  | 62               | 46              | Public                   |
| University of Kentucky                           | 337                  | 63               | 47              | Public                   |
| University of Connecticut - Storrs               | 334                  | 64               | 48              | Public                   |
| Liberty University                               | 331                  | 65               | 17              | Private                  |
| University of California - Santa Barbara         | 327                  | 66               | 49              | Public                   |
| Louisiana State University - Baton Rouge         | 325                  | 67               | 50              | Public                   |
| Carnegie Mellon University                       | 322                  | 68               | 18              | Private                  |
| Vanderbilt University                            | 319                  | 69               | 19              | Private                  |
| University of Kansas - Lawrence                  | 317                  | 70               | 51              | Public                   |
| University of Nebraska - Lincoln                 | 316                  | 71               | 52              | Public                   |
| Washington State University - Pullman            | 312                  | 72               | 53              | Public                   |
| University of North Texas                        | 302                  | 73               | 54              | Public                   |
| Washington University in St. Louis               | 302                  | 73               | 20              | Private                  |
| Oregon State University                          | 296                  | 75               | 55              | Public                   |
| Alliant International University                 | 294                  | 76               | 21              | Private For-Profit       |
| George Mason University                          | 293                  | 77               | 56              | Public                   |
| University of California - Riverside             | 293                  | 77               | 56              | Public                   |
| Georgia State University                         | 273                  | 79               | 58              | Public                   |
| Colorado State University - Fort Collins         | 263                  | 80               | 59              | Public                   |
| University of Delaware                           | 263                  | 80               | 59              | Public                   |
| University of Rochester                          | 253                  | 82               | 22              | Private                  |
| University of Central Florida                    | 251                  | 83               | 61              | Public                   |
| Saint Louis University - St. Louis               | 250                  | 84               | 23              | Private                  |
| Temple University                                | 250                  | 84               | 62              | Public                   |
| University of Cincinnati - Cincinnati            | 250                  | 84               | 62              | Public                   |
| Emory University                                 | 246                  | 87               | 24              | Private                  |
| Auburn University                                | 244                  | 88               | 64              | Public                   |
| Clemson University                               | 243                  | 89               | 65              | Public                   |
| University of Notre Dame                         | 242                  | 90               | 25              | Private                  |
| George Washington University                     | 240                  | 91               | 26              | Private                  |
| Rice University                                  | 233                  | 92               | 27              | Private                  |
| University of Oklahoma - Norman                  | 233                  | 92               | 66              | Public                   |
| Oklahoma State University - Stillwater           | 231                  | 94               | 67              | Public                   |
| University of Alabama - Tuscaloosa               | 229                  | 95               | 68              | Public                   |
| University of Texas - Dallas                     | 227                  | 96               | 69              | Public                   |
| Brown University                                 | 225                  | 97               | 28              | Private                  |
| Drexel University                                | 223                  | 98               | 29              | Private                  |
| University of New Mexico - Albuquerque           | 220                  | 99               | 70              | Public                   |
| Wayne State University                           | 216                  | 100              | 71              | Public                   |

## The Top 200 Institutions – Doctorates Awarded (2019)

| Top 101-148 Institutions<br>in Doctorates Awarded   | Number<br>of Degrees | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|-----------------------------------------------------|----------------------|------------------|-----------------|--------------------------|
| Florida International University                    | 215                  | 101              | 72              | Public                   |
| University of Texas Health Science Center - Houston | 211                  | 102              | 73              | Public                   |
| University of Arkansas - Fayetteville               | 209                  | 103              | 74              | Public                   |
| California Institute of Technology                  | 207                  | 104              | 30              | Private                  |
| Case Western Reserve University                     | 207                  | 104              | 30              | Private                  |
| Kansas State University                             | 207                  | 104              | 75              | Public                   |
| University of Colorado - Denver/Anschutz Medical    | 206                  | 107              | 76              | Public                   |
| University of Hawaii - Manoa                        | 206                  | 107              | 76              | Public                   |
| University of Texas - Arlington                     | 202                  | 109              | 78              | Public                   |
| Northeastern University                             | 200                  | 110              | 32              | Private                  |
| University of Mississippi - Oxford                  | 196                  | 111              | 79              | Public                   |
| University of Miami                                 | 195                  | 112              | 33              | Private                  |
| West Virginia University                            | 194                  | 113              | 80              | Public                   |
| Teachers College at Columbia University             | 192                  | 114              | 34              | Private                  |
| University of California - Santa Cruz               | 192                  | 114              | 81              | Public                   |
| Regent University                                   | 185                  | 116              | 35              | Private                  |
| University of Oregon                                | 183                  | 117              | 82              | Public                   |
| University of Tennessee Health Science Center       | 182                  | 118              | 83              | Public                   |
| Mississippi State University                        | 179                  | 119              | 84              | Public                   |
| Kent State University - Kent                        | 176                  | 120              | 85              | Public                   |
| University of Southern Mississippi                  | 170                  | 121              | 86              | Public                   |
| Maryville University of Saint Louis                 | 167                  | 122              | 36              | Private                  |
| University of North Carolina - Charlotte            | 167                  | 122              | 87              | Public                   |
| University of Louisville                            | 165                  | 124              | 88              | Public                   |
| University of Wisconsin - Milwaukee                 | 164                  | 125              | 89              | Public                   |
| Syracuse University                                 | 162                  | 126              | 37              | Private                  |
| Claremont Graduate University                       | 161                  | 127              | 38              | Private                  |
| University of Nevada - Las Vegas                    | 160                  | 128              | 90              | Public                   |
| University of the Cumberlands                       | 155                  | 129              | 39              | Private                  |
| University of Memphis                               | 153                  | 130              | 91              | Public                   |
| Medical University of South Carolina                | 150                  | 131              | 92              | Public                   |
| Rensselaer Polytechnic Institute                    | 148                  | 132              | 40              | Private                  |
| Concordia University - Portland                     | 146                  | 133              | 41              | Private                  |
| University of Alabama - Birmingham                  | 146                  | 133              | 93              | Public                   |
| University of North Carolina - Greensboro           | 145                  | 135              | 94              | Public                   |
| Binghamton University                               | 143                  | 136              | 95              | Public                   |
| Tufts University                                    | 141                  | 137              | 42              | Private                  |
| Ohio University - Athens                            | 140                  | 138              | 96              | Public                   |
| Gardner-Webb University                             | 138                  | 139              | 43              | Private                  |
| Boston College                                      | 137                  | 140              | 44              | Private                  |
| Texas Woman's University                            | 137                  | 140              | 97              | Public                   |
| Trevecca Nazarene University                        | 135                  | 142              | 45              | Private                  |
| University of Missouri - Kansas City                | 135                  | 142              | 98              | Public                   |
| Southern Illinois University - Carbondale           | 134                  | 144              | 99              | Public                   |
| Catholic University of America                      | 131                  | 145              | 46              | Private                  |
| University of Akron - Akron                         | 131                  | 145              | 100             | Public                   |
| University of California - San Francisco            | 131                  | 145              | 100             | Public                   |
| Baylor College of Medicine                          | 129                  | 148              | 47              | Private                  |
| University at Albany                                | 129                  | 148              | 102             | Public                   |

## The Top 200 Institutions – Doctorates Awarded (2019)

| Top 150-199 Institutions<br>in Doctorates Awarded     | Number<br>of Degrees | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|-------------------------------------------------------|----------------------|------------------|-----------------|--------------------------|
| Old Dominion University                               | 127                  | 150              | 103             | Public                   |
| University of Texas - San Antonio                     | 127                  | 150              | 103             | Public                   |
| Wilmington University (DE)                            | 127                  | 150              | 48              | Private                  |
| Baylor University                                     | 126                  | 153              | 49              | Private                  |
| East Tennessee State University                       | 126                  | 153              | 105             | Public                   |
| Brandman University                                   | 125                  | 155              | 50              | Private                  |
| Tulane University                                     | 125                  | 155              | 50              | Private                  |
| Georgetown University                                 | 123                  | 157              | 52              | Private                  |
| University of Nevada - Reno                           | 123                  | 157              | 106             | Public                   |
| Fordham University                                    | 122                  | 159              | 53              | Private                  |
| University of Toledo                                  | 122                  | 159              | 107             | Public                   |
| Loma Linda University                                 | 118                  | 161              | 54              | Private                  |
| Western Michigan University                           | 118                  | 161              | 108             | Public                   |
| New Mexico State University - Las Cruces              | 116                  | 163              | 109             | Public                   |
| University of Denver                                  | 116                  | 163              | 55              | Private                  |
| Florida Atlantic University                           | 115                  | 165              | 110             | Public                   |
| Loyola University Chicago                             | 114                  | 166              | 56              | Private                  |
| Northern Illinois University                          | 114                  | 166              | 111             | Public                   |
| University of Massachusetts - Lowell                  | 114                  | 166              | 111             | Public                   |
| St. John's University (NY)                            | 113                  | 169              | 57              | Private                  |
| Utah State University                                 | 113                  | 169              | 113             | Public                   |
| Lehigh University                                     | 107                  | 171              | 58              | Private                  |
| University of Rhode Island                            | 106                  | 172              | 114             | Public                   |
| University of Wyoming                                 | 106                  | 172              | 114             | Public                   |
| Illinois Institute of Technology                      | 104                  | 174              | 59              | Private                  |
| Missouri University of Science and Technology         | 101                  | 175              | 116             | Public                   |
| University of Texas - El Paso                         | 101                  | 175              | 116             | Public                   |
| A.T. Still University of Health Sciences              | 100                  | 177              | 60              | Private                  |
| Dartmouth College                                     | 100                  | 177              | 60              | Private                  |
| University of Vermont                                 | 100                  | 177              | 118             | Public                   |
| University of Texas SW Medical Center - Dallas        | 99                   | 180              | 119             | Public                   |
| Jackson State University                              | 98                   | 181              | 120             | Public                   |
| Shenandoah University                                 | 97                   | 182              | 62              | Private                  |
| Indiana University of Pennsylvania                    | 96                   | 183              | 121             | Public                   |
| Southern Methodist University                         | 96                   | 183              | 63              | Private                  |
| Long Island University (Multiple campuses)            | 95                   | 185              | 64              | Private                  |
| Colorado School of Mines                              | 94                   | 186              | 122             | Public                   |
| Indiana University - Purdue University - Indianapolis | 93                   | 187              | 123             | Public                   |
| Brigham Young University - Provo                      | 92                   | 188              | 65              | Private                  |
| East Carolina University                              | 92                   | 188              | 124             | Public                   |
| Florida Institute of Technology                       | 92                   | 188              | 65              | Private                  |
| North Dakota State University                         | 92                   | 188              | 124             | Public                   |
| University of Missouri - St. Louis                    | 92                   | 188              | 124             | Public                   |
| Howard University                                     | 91                   | 193              | 67              | Private                  |
| Yeshiva University                                    | 91                   | 193              | 67              | Private                  |
| Southern Baptist Theological Seminary                 | 89                   | 195              | 69              | Private                  |
| Fielding Graduate University                          | 88                   | 196              | 70              | Private                  |
| Central Michigan University                           | 87                   | 197              | 127             | Public                   |
| Duquesne University                                   | 87                   | 197              | 71              | Private                  |
| Azusa Pacific University                              | 86                   | 199              | 72              | Private                  |
| Michigan Technological University                     | 86                   | 199              | 128             | Public                   |

## The Top 200 Institutions – Postdoctoral Appointees (2018)

| Top 1-50 Institutions in Postdoctoral Appointees   | Number of Postdocs | National Rank | Control Rank | Institutional Control |
|----------------------------------------------------|--------------------|---------------|--------------|-----------------------|
| Harvard University                                 | 6,024              | 1             | 1            | Private               |
| Stanford University                                | 2,304              | 2             | 2            | Private               |
| Johns Hopkins University                           | 1,786              | 3             | 3            | Private               |
| Massachusetts Institute of Technology              | 1,413              | 4             | 4            | Private               |
| University of Michigan - Ann Arbor                 | 1,350              | 5             | 1            | Public                |
| Columbia University                                | 1,294              | 6             | 5            | Private               |
| University of California - San Diego               | 1,267              | 7             | 2            | Public                |
| University of California - Berkeley                | 1,208              | 8             | 3            | Public                |
| Yale University                                    | 1,186              | 9             | 6            | Private               |
| University of Minnesota - Twin Cities              | 1,147              | 10            | 4            | Public                |
| University of Pennsylvania                         | 1,141              | 11            | 7            | Private               |
| University of California - San Francisco           | 1,111              | 12            | 5            | Public                |
| University of Washington - Seattle                 | 1,034              | 13            | 6            | Public                |
| University of California - Los Angeles             | 932                | 14            | 7            | Public                |
| Northwestern University                            | 920                | 15            | 8            | Private               |
| University of California - Davis                   | 885                | 16            | 8            | Public                |
| New York University                                | 753                | 17            | 9            | Private               |
| University of North Carolina - Chapel Hill         | 743                | 18            | 9            | Public                |
| University of Wisconsin - Madison                  | 740                | 19            | 10           | Public                |
| University of Pittsburgh - Pittsburgh              | 718                | 20            | 11           | Public                |
| Icahn School of Medicine at Mount Sinai            | 676                | 21            | 10           | Private               |
| Duke University                                    | 671                | 22            | 11           | Private               |
| Mayo Clinic Graduate School of Biomedical Sciences | 669                | 23            | 12           | Private               |
| Ohio State University - Columbus                   | 665                | 24            | 12           | Public                |
| Washington University in St. Louis                 | 665                | 24            | 13           | Private               |
| University of Florida                              | 664                | 26            | 13           | Public                |
| Princeton University                               | 621                | 27            | 14           | Private               |
| California Institute of Technology                 | 617                | 28            | 15           | Private               |
| University of Texas MD Anderson Cancer Center      | 611                | 29            | 14           | Public                |
| University of Texas SW Medical Center - Dallas     | 585                | 30            | 15           | Public                |
| Scripps Research Institute                         | 565                | 31            | 16           | Private               |
| Michigan State University                          | 559                | 32            | 16           | Public                |
| Emory University                                   | 540                | 33            | 17           | Private               |
| Cornell University                                 | 525                | 34            | 18           | Private               |
| Texas A&M University - College Station             | 508                | 35            | 17           | Public                |
| Baylor College of Medicine                         | 506                | 36            | 19           | Private               |
| North Carolina State University                    | 499                | 37            | 18           | Public                |
| University of Arizona                              | 497                | 38            | 19           | Public                |
| Vanderbilt University                              | 492                | 39            | 20           | Private               |
| University of Maryland - College Park              | 474                | 40            | 20           | Public                |
| Weill Cornell Medical College                      | 474                | 40            | 21           | Private               |
| University of Southern California                  | 459                | 42            | 22           | Private               |
| University of Texas - Austin                       | 452                | 43            | 21           | Public                |
| University of Chicago                              | 431                | 44            | 23           | Private               |
| Purdue University - West Lafayette                 | 424                | 45            | 22           | Public                |
| University of Illinois - Urbana-Champaign          | 423                | 46            | 23           | Public                |
| University of Virginia                             | 402                | 47            | 24           | Public                |
| Indiana University - Bloomington                   | 399                | 48            | 25           | Public                |
| Georgia Institute of Technology                    | 373                | 49            | 26           | Public                |
| Boston University                                  | 367                | 50            | 24           | Private               |

## The Top 200 Institutions – Postdoctoral Appointees (2018)

| Top 51-100 Institutions in Postdoctoral Appointees     | Number of Postdocs | National Rank | Control Rank | Institutional Control |
|--------------------------------------------------------|--------------------|---------------|--------------|-----------------------|
| University of Iowa                                     | 362                | 51            | 27           | Public                |
| University of Utah                                     | 362                | 51            | 27           | Public                |
| Pennsylvania State University - University Park        | 344                | 53            | 29           | Public                |
| University of California - Irvine                      | 341                | 54            | 30           | Public                |
| University of Maryland - Baltimore                     | 332                | 55            | 31           | Public                |
| Arizona State University                               | 331                | 56            | 32           | Public                |
| University of Colorado - Denver/Anschutz Medical       | 331                | 56            | 32           | Public                |
| Iowa State University                                  | 323                | 58            | 34           | Public                |
| University of California - Santa Barbara               | 315                | 59            | 35           | Public                |
| University of South Florida - Tampa                    | 307                | 60            | 36           | Public                |
| Rutgers University - New Brunswick                     | 290                | 61            | 37           | Public                |
| University of Cincinnati - Cincinnati                  | 288                | 62            | 38           | Public                |
| University of Massachusetts Medical Sch. - Worcester   | 287                | 63            | 39           | Public                |
| Oregon Health & Science University                     | 286                | 64            | 40           | Public                |
| University of Colorado - Boulder                       | 284                | 65            | 41           | Public                |
| University at Buffalo                                  | 277                | 66            | 42           | Public                |
| Stony Brook University                                 | 274                | 67            | 43           | Public                |
| Colorado State University - Fort Collins               | 269                | 68            | 44           | Public                |
| Rockefeller University                                 | 261                | 69            | 25           | Private               |
| University of Kentucky                                 | 261                | 69            | 45           | Public                |
| University of Miami                                    | 259                | 71            | 26           | Private               |
| Tufts University                                       | 258                | 72            | 27           | Private               |
| Florida International University                       | 242                | 73            | 46           | Public                |
| Florida State University                               | 242                | 73            | 46           | Public                |
| Yeshiva University                                     | 241                | 75            | 28           | Private               |
| University of Georgia                                  | 236                | 76            | 48           | Public                |
| University of Alabama - Birmingham                     | 234                | 77            | 49           | Public                |
| Brown University                                       | 228                | 78            | 29           | Private               |
| Carnegie Mellon University                             | 224                | 79            | 30           | Private               |
| Oregon State University                                | 222                | 80            | 50           | Public                |
| University of Houston - University Park                | 220                | 81            | 51           | Public                |
| University of Rochester                                | 218                | 82            | 31           | Private               |
| Virginia Polytechnic Institute and State University    | 218                | 82            | 52           | Public                |
| Irell & Manella Graduate School of Biological Sciences | 217                | 84            | 32           | Private               |
| University of California - Riverside                   | 216                | 85            | 53           | Public                |
| University of Texas Health Science Center - Houston    | 216                | 85            | 53           | Public                |
| Rice University                                        | 207                | 87            | 33           | Private               |
| Virginia Commonwealth University                       | 204                | 88            | 55           | Public                |
| University of Hawaii - Manoa                           | 199                | 89            | 56           | Public                |
| University of Missouri - Columbia                      | 199                | 89            | 56           | Public                |
| University of Texas Health Science Ctr. - San Antonio  | 190                | 91            | 58           | Public                |
| Case Western Reserve University                        | 189                | 92            | 34           | Private               |
| Washington State University - Pullman                  | 181                | 93            | 59           | Public                |
| Temple University                                      | 170                | 94            | 60           | Public                |
| University of Nebraska - Lincoln                       | 170                | 94            | 60           | Public                |
| Cold Spring Harbor Laboratory                          | 168                | 96            | 35           | Private               |
| University of Delaware                                 | 160                | 97            | 62           | Public                |
| Northeastern University                                | 154                | 98            | 36           | Private               |
| University of Massachusetts - Amherst                  | 153                | 99            | 63           | Public                |
| Medical University of South Carolina                   | 152                | 100           | 64           | Public                |

## The Top 200 Institutions – Postdoctoral Appointees (2018)

| Top 101-150 Institutions in Postdoctoral Appointees | Number of Postdocs | National Rank | Control Rank | Institutional Control |
|-----------------------------------------------------|--------------------|---------------|--------------|-----------------------|
| Dartmouth College                                   | 151                | 101           | 37           | Private               |
| University of Oklahoma - Norman                     | 149                | 102           | 65           | Public                |
| Cedars-Sinai Medical Center                         | 148                | 103           | 38           | Private               |
| Texas Tech University                               | 147                | 104           | 66           | Public                |
| University of Central Florida                       | 146                | 105           | 67           | Public                |
| Wayne State University                              | 137                | 106           | 68           | Public                |
| Sanford-Burnham Prebys Medical Discovery Institute  | 136                | 107           | 39           | Private               |
| Thomas Jefferson University                         | 136                | 107           | 39           | Private               |
| University of Nebraska Medical Center               | 136                | 107           | 69           | Public                |
| University of California - Santa Cruz               | 135                | 110           | 70           | Public                |
| Kansas State University                             | 133                | 111           | 71           | Public                |
| Louisiana State University - Baton Rouge            | 132                | 112           | 72           | Public                |
| Medical College of Wisconsin                        | 132                | 112           | 41           | Private               |
| University of Tennessee - Knoxville                 | 129                | 114           | 73           | Public                |
| Wake Forest University                              | 129                | 114           | 42           | Private               |
| University of Texas Medical Branch - Galveston      | 122                | 116           | 74           | Public                |
| University of Illinois - Chicago                    | 117                | 117           | 75           | Public                |
| Tulane University                                   | 115                | 118           | 43           | Private               |
| University of Connecticut - Health Center           | 114                | 119           | 76           | Public                |
| University of South Carolina - Columbia             | 114                | 119           | 76           | Public                |
| University of Connecticut - Storrs                  | 113                | 121           | 78           | Public                |
| Georgetown University                               | 112                | 122           | 44           | Private               |
| University of Tennessee Health Science Center       | 108                | 123           | 79           | Public                |
| University of New Mexico - Albuquerque              | 103                | 124           | 80           | Public                |
| University of Texas - San Antonio                   | 103                | 124           | 80           | Public                |
| University of Kansas - Lawrence                     | 99                 | 126           | 82           | Public                |
| Rush University                                     | 97                 | 127           | 45           | Private               |
| George Washington University                        | 95                 | 128           | 46           | Private               |
| Brandeis University                                 | 94                 | 129           | 47           | Private               |
| Rensselaer Polytechnic Institute                    | 94                 | 129           | 47           | Private               |
| Georgia State University                            | 93                 | 131           | 83           | Public                |
| Clemson University                                  | 91                 | 132           | 84           | Public                |
| University of Texas - Dallas                        | 91                 | 132           | 84           | Public                |
| Woods Hole Oceanographic Institution                | 90                 | 134           | 49           | Private               |
| Drexel University                                   | 88                 | 135           | 50           | Private               |
| University at Albany                                | 88                 | 135           | 86           | Public                |
| University of Nevada - Reno                         | 87                 | 137           | 87           | Public                |
| Jackson State University                            | 84                 | 138           | 88           | Public                |
| West Virginia University                            | 79                 | 139           | 89           | Public                |
| Augusta University                                  | 77                 | 140           | 90           | Public                |
| University of Oklahoma - Health Sciences Center     | 77                 | 140           | 90           | Public                |
| University of Kansas Medical Center                 | 75                 | 142           | 92           | Public                |
| University of Arkansas for Medical Sciences         | 74                 | 143           | 93           | Public                |
| University of Vermont                               | 73                 | 144           | 94           | Public                |
| University of Louisville                            | 70                 | 145           | 95           | Public                |
| University of Oregon                                | 69                 | 146           | 96           | Public                |
| Auburn University                                   | 67                 | 147           | 97           | Public                |
| Northern Illinois University                        | 66                 | 148           | 98           | Public                |
| University of Texas - Arlington                     | 65                 | 149           | 99           | Public                |
| University of Arkansas - Fayetteville               | 63                 | 150           | 100          | Public                |

## The Top 200 Institutions – Postdoctoral Appointees (2018)

| Top 151-199 Institutions in Postdoctoral Appointees           | Number of Postdocs | National Rank | Control Rank | Institutional Control |
|---------------------------------------------------------------|--------------------|---------------|--------------|-----------------------|
| University of New Hampshire - Durham                          | 62                 | 151           | 101          | Public                |
| University of California - Merced                             | 61                 | 152           | 102          | Public                |
| University of Wisconsin - Milwaukee                           | 61                 | 152           | 102          | Public                |
| Pennsylvania State University - Hershey Medical Center        | 57                 | 154           | 104          | Public                |
| Albany Medical College                                        | 53                 | 155           | 51           | Private               |
| City University of NY - City College                          | 53                 | 155           | 105          | Public                |
| Lehigh University                                             | 53                 | 155           | 51           | Private               |
| Oklahoma State University - Stillwater                        | 52                 | 158           | 106          | Public                |
| University of Idaho                                           | 50                 | 159           | 107          | Public                |
| University of Wyoming                                         | 50                 | 159           | 107          | Public                |
| Colorado School of Mines                                      | 49                 | 161           | 109          | Public                |
| Louisiana State University Health Sciences Ctr. - New Orleans | 49                 | 161           | 109          | Public                |
| Montana State University - Bozeman                            | 48                 | 163           | 111          | Public                |
| Syracuse University                                           | 47                 | 164           | 53           | Private               |
| Van Andel Institute                                           | 47                 | 164           | 53           | Private               |
| Mississippi State University                                  | 46                 | 166           | 112          | Public                |
| University of Nevada - Las Vegas                              | 45                 | 167           | 113          | Public                |
| Uniformed Services University of the Health Sciences          | 44                 | 168           | 114          | Public                |
| Utah State University                                         | 44                 | 168           | 114          | Public                |
| North Dakota State University                                 | 43                 | 170           | 116          | Public                |
| Boston College                                                | 42                 | 171           | 55           | Private               |
| University of North Texas                                     | 42                 | 171           | 117          | Public                |
| Loyola University Chicago                                     | 41                 | 173           | 56           | Private               |
| University of Mississippi - Oxford                            | 41                 | 173           | 118          | Public                |
| University of Rhode Island                                    | 41                 | 173           | 118          | Public                |
| South Dakota State University                                 | 40                 | 176           | 120          | Public                |
| Rutgers University - Newark                                   | 39                 | 177           | 121          | Public                |
| Stevens Institute of Technology                               | 39                 | 177           | 57           | Private               |
| University of Massachusetts - Lowell                          | 39                 | 177           | 121          | Public                |
| University of Texas - El Paso                                 | 39                 | 177           | 121          | Public                |
| Northern Arizona University                                   | 38                 | 181           | 124          | Public                |
| University of Maryland - Baltimore County                     | 38                 | 181           | 124          | Public                |
| George Mason University                                       | 36                 | 183           | 126          | Public                |
| Louisiana State University - Shreveport                       | 36                 | 183           | 126          | Public                |
| University of Alabama - Tuscaloosa                            | 36                 | 183           | 126          | Public                |
| University of Mississippi Medical Center                      | 36                 | 183           | 126          | Public                |
| University of Toledo                                          | 36                 | 183           | 126          | Public                |
| Worcester Polytechnic Institute                               | 35                 | 188           | 58           | Private               |
| Baylor University                                             | 34                 | 189           | 59           | Private               |
| Old Dominion University                                       | 34                 | 189           | 131          | Public                |
| University of Louisiana - Lafayette                           | 34                 | 189           | 131          | Public                |
| University of Montana - Missoula                              | 34                 | 189           | 131          | Public                |
| University of Notre Dame                                      | 34                 | 189           | 59           | Private               |
| Indiana University- Purdue University - Indianapolis          | 33                 | 194           | 134          | Public                |
| New Jersey Institute of Technology                            | 33                 | 194           | 134          | Public                |
| Richard Gilder Grad. School at the Am. Mus. of Nat. History   | 33                 | 194           | 61           | Private               |
| University of North Dakota                                    | 33                 | 194           | 134          | Public                |
| Binghamton University                                         | 32                 | 198           | 137          | Public                |
| Florida Atlantic University                                   | 31                 | 199           | 138          | Public                |
| Missouri University of Science and Technology                 | 31                 | 199           | 138          | Public                |

## The Top 200 Institutions – SAT Scores (2018)

| Top 1-48 Institutions in Median SAT Scores | Median SAT Score | National Rank | Control Rank | Institutional Control |
|--------------------------------------------|------------------|---------------|--------------|-----------------------|
| California Institute of Technology         | 1555             | 1             | 1            | Private               |
| Massachusetts Institute of Technology      | 1535             | 2             | 2            | Private               |
| Harvey Mudd College                        | 1525             | 3             | 3            | Private               |
| Harvard University                         | 1520             | 4             | 4            | Private               |
| Yale University                            | 1515             | 5             | 5            | Private               |
| Columbia University                        | 1505             | 6             | 6            | Private               |
| Franklin W. Olin College of Engineering    | 1505             | 6             | 6            | Private               |
| Princeton University                       | 1505             | 6             | 6            | Private               |
| Carnegie Mellon University                 | 1500             | 9             | 9            | Private               |
| Duke University                            | 1500             | 9             | 9            | Private               |
| Johns Hopkins University                   | 1500             | 9             | 9            | Private               |
| Northwestern University                    | 1500             | 9             | 9            | Private               |
| Rice University                            | 1500             | 9             | 9            | Private               |
| University of Chicago                      | 1500             | 9             | 9            | Private               |
| University of Notre Dame                   | 1500             | 9             | 9            | Private               |
| Vanderbilt University                      | 1500             | 9             | 9            | Private               |
| Stanford University                        | 1495             | 17            | 17           | Private               |
| Dartmouth College                          | 1490             | 18            | 18           | Private               |
| Brown University                           | 1485             | 19            | 19           | Private               |
| University of Pennsylvania                 | 1485             | 19            | 19           | Private               |
| Washington University in St. Louis         | 1480             | 21            | 21           | Private               |
| Williams College                           | 1480             | 21            | 21           | Private               |
| Webb Institute                             | 1475             | 23            | 23           | Private               |
| Pomona College                             | 1470             | 24            | 24           | Private               |
| Cornell University                         | 1465             | 25            | 25           | Private               |
| Georgia Institute of Technology            | 1465             | 25            | 1            | Public                |
| Swarthmore College                         | 1465             | 25            | 25           | Private               |
| Northeastern University                    | 1460             | 28            | 27           | Private               |
| Georgetown University                      | 1450             | 29            | 28           | Private               |
| Haverford College                          | 1450             | 29            | 28           | Private               |
| Amherst College                            | 1445             | 31            | 30           | Private               |
| Carleton College                           | 1445             | 31            | 30           | Private               |
| Claremont McKenna College                  | 1445             | 31            | 30           | Private               |
| Colgate University                         | 1445             | 31            | 30           | Private               |
| Tufts University                           | 1445             | 31            | 30           | Private               |
| Washington and Lee University              | 1445             | 31            | 30           | Private               |
| University of Southern California          | 1440             | 37            | 36           | Private               |
| Vassar College                             | 1440             | 37            | 36           | Private               |
| Emory University                           | 1435             | 39            | 38           | Private               |
| Case Western Reserve University            | 1430             | 40            | 39           | Private               |
| Colby College                              | 1430             | 40            | 39           | Private               |
| Grinnell College                           | 1430             | 40            | 39           | Private               |
| Hamilton College (NY)                      | 1430             | 40            | 39           | Private               |
| Jewish Theological Seminary of America     | 1430             | 40            | 39           | Private               |
| University of California - Berkeley        | 1425             | 45            | 2            | Public                |
| Wellesley College                          | 1425             | 45            | 44           | Private               |
| University of Michigan - Ann Arbor         | 1420             | 47            | 3            | Public                |
| Barnard College                            | 1415             | 48            | 45           | Private               |
| Boston University                          | 1415             | 48            | 45           | Private               |
| Middlebury College                         | 1415             | 48            | 45           | Private               |
| Reed College                               | 1415             | 48            | 45           | Private               |
| Rensselaer Polytechnic Institute           | 1415             | 48            | 45           | Private               |
| Tulane University                          | 1415             | 48            | 45           | Private               |
| University of Virginia                     | 1415             | 48            | 4            | Public                |

## The Top 200 Institutions – SAT Scores (2018)

| Top 55-100 Institutions<br>in Median SAT Scores   | Median<br>SAT Score | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|---------------------------------------------------|---------------------|------------------|-----------------|--------------------------|
| New York University                               | 1410                | 55               | 51              | Private                  |
| University of Rochester                           | 1410                | 55               | 51              | Private                  |
| Boston College                                    | 1405                | 57               | 53              | Private                  |
| Stevens Institute of Technology                   | 1405                | 57               | 53              | Private                  |
| University of California - Los Angeles            | 1405                | 57               | 5               | Public                   |
| Kenyon College                                    | 1400                | 60               | 55              | Private                  |
| Macalester College                                | 1400                | 60               | 55              | Private                  |
| Southern Methodist University                     | 1400                | 60               | 55              | Private                  |
| University of North Carolina - Chapel Hill        | 1400                | 60               | 6               | Public                   |
| William & Mary                                    | 1400                | 60               | 6               | Public                   |
| Cooper Union for the Advancement of Science & Art | 1397                | 65               | 58              | Private                  |
| Mount Holyoke College                             | 1395                | 66               | 59              | Private                  |
| Brandeis University                               | 1390                | 67               | 60              | Private                  |
| Scripps College                                   | 1390                | 67               | 60              | Private                  |
| Hillsdale College                                 | 1385                | 69               | 62              | Private                  |
| Oberlin College                                   | 1385                | 69               | 62              | Private                  |
| U.S. Air Force Academy                            | 1385                | 69               | 8               | Public                   |
| Villanova University                              | 1385                | 69               | 62              | Private                  |
| Trinity College (CT)                              | 1380                | 73               | 65              | Private                  |
| University of Maryland - College Park             | 1380                | 73               | 9               | Public                   |
| Binghamton University                             | 1375                | 75               | 10              | Public                   |
| Rose-Hulman Institute of Technology               | 1375                | 75               | 66              | Private                  |
| University of Richmond                            | 1375                | 75               | 66              | Private                  |
| Colorado School of Mines                          | 1370                | 78               | 11              | Public                   |
| Davidson College                                  | 1370                | 78               | 68              | Private                  |
| Furman University                                 | 1370                | 78               | 68              | Private                  |
| George Washington University                      | 1370                | 78               | 68              | Private                  |
| University of California - San Diego              | 1365                | 82               | 12              | Public                   |
| Babson College                                    | 1360                | 83               | 71              | Private                  |
| Connecticut College                               | 1360                | 83               | 71              | Private                  |
| Lehigh University                                 | 1360                | 83               | 71              | Private                  |
| Occidental College                                | 1360                | 83               | 71              | Private                  |
| University of Florida                             | 1360                | 83               | 13              | Public                   |
| Centre College                                    | 1355                | 88               | 75              | Private                  |
| Hendrix College                                   | 1355                | 88               | 75              | Private                  |
| Ohio State University - Columbus                  | 1355                | 88               | 14              | Public                   |
| Rhodes College (TN)                               | 1355                | 88               | 75              | Private                  |
| Santa Clara University                            | 1355                | 88               | 75              | Private                  |
| University of Texas - Austin                      | 1355                | 88               | 14              | Public                   |
| University of Wisconsin - Madison                 | 1355                | 88               | 14              | Public                   |
| Whitman College                                   | 1355                | 88               | 75              | Private                  |
| University of Pittsburgh - Pittsburgh             | 1350                | 96               | 17              | Public                   |
| Trinity University                                | 1345                | 97               | 80              | Private                  |
| University of California - Santa Barbara          | 1345                | 97               | 18              | Public                   |
| Lafayette College                                 | 1343                | 99               | 81              | Private                  |
| Fordham University                                | 1340                | 100              | 82              | Private                  |
| Lawrence University                               | 1340                | 100              | 82              | Private                  |
| North Carolina State University                   | 1340                | 100              | 19              | Public                   |
| University of Illinois - Urbana-Champaign         | 1340                | 100              | 19              | Public                   |
| University of Miami                               | 1340                | 100              | 82              | Private                  |
| University of Washington - Seattle                | 1340                | 100              | 19              | Public                   |

### The Top 200 Institutions – SAT Scores (2018)

| Top 106-154 Institutions<br>in Median SAT Scores     | Median<br>SAT Score | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|------------------------------------------------------|---------------------|------------------|-----------------|--------------------------|
| Bucknell University                                  | 1335                | 106              | 85              | Private                  |
| California Polytechnic State Univ. - San Luis Obispo | 1335                | 106              | 22              | Public                   |
| U.S. Coast Guard Academy                             | 1333                | 108              | 23              | Public                   |
| Sarah Lawrence College                               | 1330                | 109              | 86              | Private                  |
| St. John's College (MD)                              | 1330                | 109              | 86              | Private                  |
| University of Texas - Dallas                         | 1330                | 109              | 24              | Public                   |
| Baylor University                                    | 1325                | 112              | 88              | Private                  |
| Bentley University                                   | 1325                | 112              | 88              | Private                  |
| Brigham Young University - Provo                     | 1325                | 112              | 88              | Private                  |
| St. Olaf College                                     | 1325                | 112              | 88              | Private                  |
| Stony Brook University                               | 1325                | 112              | 25              | Public                   |
| University of Georgia                                | 1325                | 112              | 25              | Public                   |
| University of Minnesota - Twin Cities                | 1325                | 112              | 25              | Public                   |
| University of Tulsa                                  | 1325                | 112              | 88              | Private                  |
| New College of Florida                               | 1320                | 120              | 28              | Public                   |
| Pepperdine University                                | 1320                | 120              | 93              | Private                  |
| University of Connecticut - Storrs                   | 1315                | 122              | 29              | Public                   |
| Wheaton College (IL)                                 | 1315                | 122              | 94              | Private                  |
| Skidmore College                                     | 1312                | 124              | 95              | Private                  |
| Clemson University                                   | 1310                | 125              | 30              | Public                   |
| Illinois Institute of Technology                     | 1310                | 125              | 96              | Private                  |
| Missouri University of Science and Technology        | 1310                | 125              | 30              | Public                   |
| Rhode Island School of Design                        | 1310                | 125              | 96              | Private                  |
| Saint Louis University - St. Louis                   | 1310                | 125              | 96              | Private                  |
| St. John's College (NM)                              | 1310                | 125              | 96              | Private                  |
| Texas Christian University                           | 1310                | 125              | 96              | Private                  |
| Thomas Aquinas College                               | 1310                | 125              | 96              | Private                  |
| University of Alabama - Huntsville                   | 1310                | 125              | 30              | Public                   |
| University of Tennessee - Knoxville                  | 1310                | 125              | 30              | Public                   |
| City University of NY - Bernard M. Baruch College    | 1305                | 135              | 34              | Public                   |
| American University                                  | 1300                | 136              | 102             | Private                  |
| Loyola Marymount University                          | 1300                | 136              | 102             | Private                  |
| Rochester Institute of Technology                    | 1300                | 136              | 102             | Private                  |
| Rutgers University - New Brunswick                   | 1300                | 136              | 35              | Public                   |
| Savannah State University                            | 1300                | 136              | 35              | Public                   |
| University of California - Irvine                    | 1300                | 136              | 35              | Public                   |
| Auburn University                                    | 1295                | 142              | 38              | Public                   |
| Butler University                                    | 1295                | 142              | 105             | Private                  |
| College of Wooster                                   | 1295                | 142              | 105             | Private                  |
| Denison University                                   | 1295                | 142              | 105             | Private                  |
| Emerson College                                      | 1295                | 142              | 105             | Private                  |
| Loyola University Chicago                            | 1295                | 142              | 105             | Private                  |
| Miami University - Oxford                            | 1295                | 142              | 38              | Public                   |
| Milwaukee School of Engineering                      | 1295                | 142              | 105             | Private                  |
| Purdue University - West Lafayette                   | 1295                | 142              | 38              | Public                   |
| Soka University of America                           | 1295                | 142              | 105             | Private                  |
| University of California - Santa Cruz                | 1295                | 142              | 38              | Public                   |
| University of Massachusetts - Amherst                | 1295                | 142              | 38              | Public                   |
| New Jersey Institute of Technology                   | 1285                | 154              | 43              | Public                   |
| Providence College                                   | 1285                | 154              | 112             | Private                  |
| Virginia Polytechnic Institute and State University  | 1285                | 154              | 43              | Public                   |

## The Top 200 Institutions – SAT Scores (2018)

| Top 157-198 Institutions<br>in Median SAT Scores | Median<br>SAT Score | National<br>Rank | Control<br>Rank | Institutional<br>Control |
|--------------------------------------------------|---------------------|------------------|-----------------|--------------------------|
| Chapman University                               | 1280                | 157              | 113             | Private                  |
| Creighton University                             | 1280                | 157              | 113             | Private                  |
| Drake University                                 | 1280                | 157              | 113             | Private                  |
| Kettering University                             | 1280                | 157              | 113             | Private                  |
| Marquette University                             | 1280                | 157              | 113             | Private                  |
| Transylvania University                          | 1280                | 157              | 113             | Private                  |
| Truman State University                          | 1280                | 157              | 45              | Public                   |
| University of Alabama - Tuscaloosa               | 1280                | 157              | 45              | Public                   |
| University of California - Davis                 | 1280                | 157              | 45              | Public                   |
| University of Dayton                             | 1280                | 157              | 113             | Private                  |
| Drexel University                                | 1275                | 167              | 120             | Private                  |
| Florida State University                         | 1275                | 167              | 48              | Public                   |
| Syracuse University                              | 1275                | 167              | 120             | Private                  |
| Texas A&M University - College Station           | 1275                | 167              | 48              | Public                   |
| University of Maryland - Baltimore County        | 1275                | 167              | 48              | Public                   |
| University of San Diego                          | 1275                | 167              | 120             | Private                  |
| University of South Carolina - Columbia          | 1275                | 167              | 48              | Public                   |
| St. Lawrence University                          | 1273                | 174              | 123             | Private                  |
| Earlham College                                  | 1270                | 175              | 124             | Private                  |
| Gonzaga University                               | 1270                | 175              | 124             | Private                  |
| University of Denver                             | 1270                | 175              | 124             | Private                  |
| University of Vermont                            | 1270                | 175              | 52              | Public                   |
| Bethlehem College & Seminary                     | 1265                | 179              | 127             | Private                  |
| Michigan Technological University                | 1265                | 179              | 53              | Public                   |
| Muhlenberg College                               | 1265                | 179              | 127             | Private                  |
| Wheaton College (MA)                             | 1265                | 179              | 127             | Private                  |
| Wofford College                                  | 1265                | 179              | 127             | Private                  |
| Belmont University                               | 1260                | 184              | 131             | Private                  |
| Calvin University                                | 1260                | 184              | 131             | Private                  |
| Cornell College                                  | 1260                | 184              | 131             | Private                  |
| Covenant College                                 | 1260                | 184              | 131             | Private                  |
| Illinois Wesleyan University                     | 1260                | 184              | 131             | Private                  |
| John Brown University                            | 1260                | 184              | 131             | Private                  |
| Mercer University                                | 1260                | 184              | 131             | Private                  |
| Pennsylvania State University - University Park  | 1260                | 184              | 54              | Public                   |
| South Dakota School of Mines and Technology      | 1260                | 184              | 54              | Public                   |
| U.S. Merchant Marine Academy                     | 1260                | 184              | 54              | Public                   |
| U.S. Naval Academy                               | 1260                | 184              | 54              | Public                   |
| Union University                                 | 1260                | 184              | 131             | Private                  |
| University of Cincinnati - Cincinnati            | 1260                | 184              | 54              | Public                   |
| University of St. Thomas (MN)                    | 1260                | 184              | 131             | Private                  |
| Clarkson University                              | 1255                | 198              | 140             | Private                  |
| College of New Jersey                            | 1255                | 198              | 59              | Public                   |
| Indiana University - Bloomington                 | 1255                | 198              | 59              | Public                   |
| New Saint Andrews College                        | 1255                | 198              | 140             | Private                  |
| New School                                       | 1255                | 198              | 140             | Private                  |
| University of Colorado - Boulder                 | 1255                | 198              | 59              | Public                   |
| University of Delaware                           | 1255                | 198              | 59              | Public                   |

## The Top 200 Institutions – National Merit Scholars (2019)

| Top 1-50 Institutions in National Merit Scholars | Number of Scholars | National Rank | Control Rank | Institutional Control |
|--------------------------------------------------|--------------------|---------------|--------------|-----------------------|
| University of Florida                            | 270                | 1             | 1            | Public                |
| University of Southern California                | 265                | 2             | 1            | Private               |
| University of Alabama - Tuscaloosa               | 258                | 3             | 2            | Public                |
| Northwestern University                          | 244                | 4             | 2            | Private               |
| University of Chicago                            | 233                | 5             | 3            | Private               |
| Vanderbilt University                            | 222                | 6             | 4            | Private               |
| Harvard University                               | 207                | 7             | 5            | Private               |
| University of Texas - Dallas                     | 200                | 8             | 3            | Public                |
| Texas A&M University - College Station           | 188                | 9             | 4            | Public                |
| Northeastern University                          | 155                | 10            | 6            | Private               |
| Yale University                                  | 140                | 11            | 7            | Private               |
| Arizona State University                         | 136                | 12            | 5            | Public                |
| Massachusetts Institute of Technology            | 134                | 13            | 8            | Private               |
| University of California - Berkeley              | 132                | 14            | 6            | Public                |
| University of Pennsylvania                       | 126                | 15            | 9            | Private               |
| Stanford University                              | 124                | 16            | 10           | Private               |
| Duke University                                  | 119                | 17            | 11           | Private               |
| Purdue University - West Lafayette               | 116                | 18            | 7            | Public                |
| Princeton University                             | 114                | 19            | 12           | Private               |
| University of Minnesota - Twin Cities            | 107                | 20            | 8            | Public                |
| University of Central Florida                    | 91                 | 21            | 9            | Public                |
| Georgia Institute of Technology                  | 88                 | 22            | 10           | Public                |
| Brown University                                 | 87                 | 23            | 13           | Private               |
| University of Maryland - College Park            | 87                 | 23            | 11           | Public                |
| University of Oklahoma - Norman                  | 87                 | 23            | 11           | Public                |
| University of Texas - Austin                     | 86                 | 26            | 13           | Public                |
| University of California - Los Angeles           | 79                 | 27            | 14           | Public                |
| Cornell University                               | 74                 | 28            | 14           | Private               |
| University of Arizona                            | 73                 | 29            | 15           | Public                |
| University of Kentucky                           | 70                 | 30            | 16           | Public                |
| University of Michigan - Ann Arbor               | 68                 | 31            | 17           | Public                |
| Columbia University                              | 67                 | 32            | 15           | Private               |
| Emory University                                 | 67                 | 32            | 15           | Private               |
| Boston University                                | 66                 | 34            | 17           | Private               |
| Rice University                                  | 65                 | 35            | 18           | Private               |
| Indiana University - Bloomington                 | 64                 | 36            | 18           | Public                |
| Brigham Young University - Provo                 | 63                 | 37            | 19           | Private               |
| Fordham University                               | 63                 | 37            | 19           | Private               |
| University of Georgia                            | 62                 | 39            | 19           | Public                |
| Dartmouth College                                | 58                 | 40            | 21           | Private               |
| Rutgers University - New Brunswick               | 55                 | 41            | 20           | Public                |
| University of Notre Dame                         | 53                 | 42            | 22           | Private               |
| University of South Carolina - Columbia          | 53                 | 42            | 21           | Public                |
| Carnegie Mellon University                       | 51                 | 44            | 23           | Private               |
| Case Western Reserve University                  | 51                 | 44            | 23           | Private               |
| Johns Hopkins University                         | 51                 | 44            | 23           | Private               |
| Michigan State University                        | 51                 | 44            | 22           | Public                |
| Harvey Mudd College                              | 45                 | 48            | 26           | Private               |
| University of Nebraska - Lincoln                 | 45                 | 48            | 23           | Public                |
| Clemson University                               | 44                 | 50            | 24           | Public                |

## The Top 200 Institutions – National Merit Scholars (2019)

| Top 51-99 Institutions in National Merit Scholars | Number of Scholars | National Rank | Control Rank | Institutional Control |
|---------------------------------------------------|--------------------|---------------|--------------|-----------------------|
| University of Mississippi - Oxford                | 42                 | 51            | 25           | Public                |
| University of Missouri - Columbia                 | 41                 | 52            | 26           | Public                |
| California Institute of Technology                | 40                 | 53            | 27           | Private               |
| University of Arkansas - Fayetteville             | 39                 | 54            | 27           | Public                |
| University of Illinois - Urbana-Champaign         | 39                 | 54            | 27           | Public                |
| Baylor University                                 | 38                 | 56            | 28           | Private               |
| Tufts University                                  | 38                 | 56            | 28           | Private               |
| University of Rochester                           | 38                 | 56            | 28           | Private               |
| Carleton College                                  | 37                 | 59            | 31           | Private               |
| University of Utah                                | 37                 | 59            | 29           | Public                |
| Georgetown University                             | 36                 | 61            | 32           | Private               |
| Ohio State University - Columbus                  | 36                 | 61            | 30           | Public                |
| Tulane University                                 | 35                 | 63            | 33           | Private               |
| University of South Florida - Tampa               | 35                 | 63            | 31           | Public                |
| Washington University in St. Louis                | 35                 | 63            | 33           | Private               |
| Auburn University                                 | 34                 | 66            | 32           | Public                |
| Iowa State University                             | 34                 | 66            | 32           | Public                |
| University of Virginia                            | 33                 | 68            | 34           | Public                |
| University of North Texas                         | 32                 | 69            | 35           | Public                |
| Mississippi State University                      | 31                 | 70            | 36           | Public                |
| University of Tennessee - Knoxville               | 31                 | 70            | 36           | Public                |
| Louisiana State University - Baton Rouge          | 30                 | 72            | 38           | Public                |
| University of Cincinnati - Cincinnati             | 30                 | 72            | 38           | Public                |
| University of Iowa                                | 30                 | 72            | 38           | Public                |
| University of Miami                               | 28                 | 75            | 35           | Private               |
| Bowdoin College                                   | 26                 | 76            | 36           | Private               |
| University of North Carolina - Chapel Hill        | 25                 | 77            | 41           | Public                |
| University of Washington - Seattle                | 25                 | 77            | 41           | Public                |
| Florida Atlantic University                       | 24                 | 79            | 43           | Public                |
| Southern Methodist University                     | 24                 | 79            | 37           | Private               |
| Grinnell College                                  | 23                 | 81            | 38           | Private               |
| Oklahoma State University - Stillwater            | 23                 | 81            | 44           | Public                |
| University of Tulsa                               | 23                 | 81            | 38           | Private               |
| Williams College                                  | 23                 | 81            | 38           | Private               |
| University of Wisconsin - Madison                 | 22                 | 85            | 45           | Public                |
| Wheaton College (IL)                              | 22                 | 85            | 41           | Private               |
| University of Kansas - Lawrence                   | 21                 | 87            | 46           | Public                |
| University of Louisville                          | 21                 | 87            | 46           | Public                |
| Florida State University                          | 20                 | 89            | 48           | Public                |
| University of Pittsburgh - Pittsburgh             | 20                 | 89            | 48           | Public                |
| Liberty University                                | 19                 | 91            | 42           | Private               |
| Miami University - Oxford                         | 19                 | 91            | 50           | Public                |
| New York University                               | 19                 | 91            | 42           | Private               |
| Oberlin College                                   | 19                 | 91            | 42           | Private               |
| Pennsylvania State University - University Park   | 18                 | 95            | 51           | Public                |
| Rensselaer Polytechnic Institute                  | 18                 | 95            | 45           | Private               |
| University of California - San Diego              | 18                 | 95            | 51           | Public                |
| West Virginia University                          | 18                 | 95            | 51           | Public                |
| Boston College                                    | 17                 | 99            | 46           | Private               |
| Pomona College                                    | 17                 | 99            | 46           | Private               |
| University of Alabama - Birmingham                | 17                 | 99            | 54           | Public                |

### The Top 200 Institutions – National Merit Scholars (2019)

| Top 102-143 Institutions in National Merit Scholars | Number of Scholars | National Rank | Control Rank | Institutional Control |
|-----------------------------------------------------|--------------------|---------------|--------------|-----------------------|
| Texas Tech University                               | 16                 | 102           | 55           | Public                |
| Rhodes College (TN)                                 | 14                 | 103           | 48           | Private               |
| Texas Christian University                          | 14                 | 103           | 48           | Private               |
| Villanova University                                | 14                 | 103           | 48           | Private               |
| Rochester Institute of Technology                   | 13                 | 106           | 51           | Private               |
| Rose-Hulman Institute of Technology                 | 13                 | 106           | 51           | Private               |
| Michigan Technological University                   | 11                 | 108           | 56           | Public                |
| St. Olaf College                                    | 11                 | 108           | 53           | Private               |
| University of Dallas                                | 11                 | 108           | 53           | Private               |
| University of Houston - University Park             | 11                 | 108           | 56           | Public                |
| Hillsdale College                                   | 10                 | 112           | 55           | Private               |
| Missouri University of Science and Technology       | 10                 | 112           | 58           | Public                |
| Trinity University                                  | 10                 | 112           | 55           | Private               |
| American University                                 | 9                  | 115           | 57           | Private               |
| Brandeis University                                 | 9                  | 115           | 57           | Private               |
| Colorado College                                    | 9                  | 115           | 57           | Private               |
| Drake University                                    | 9                  | 115           | 57           | Private               |
| Furman University                                   | 9                  | 115           | 57           | Private               |
| Loyola University Chicago                           | 9                  | 115           | 57           | Private               |
| Macalester College                                  | 9                  | 115           | 57           | Private               |
| Montana State University - Bozeman                  | 9                  | 115           | 59           | Public                |
| North Carolina State University                     | 9                  | 115           | 59           | Public                |
| Stony Brook University                              | 9                  | 115           | 59           | Public                |
| University of Idaho                                 | 9                  | 115           | 59           | Public                |
| Franklin W. Olin College of Engineering             | 8                  | 126           | 64           | Private               |
| Kansas State University                             | 8                  | 126           | 63           | Public                |
| Lehigh University                                   | 8                  | 126           | 64           | Private               |
| University of Colorado - Boulder                    | 8                  | 126           | 63           | Public                |
| University of New Mexico - Albuquerque              | 8                  | 126           | 63           | Public                |
| Virginia Commonwealth University                    | 8                  | 126           | 63           | Public                |
| Washington and Lee University                       | 8                  | 126           | 64           | Private               |
| Calvin University                                   | 7                  | 133           | 67           | Private               |
| Claremont McKenna College                           | 7                  | 133           | 67           | Private               |
| Colorado School of Mines                            | 7                  | 133           | 67           | Public                |
| Colorado State University - Fort Collins            | 7                  | 133           | 67           | Public                |
| Santa Clara University                              | 7                  | 133           | 67           | Private               |
| University of California - Santa Barbara            | 7                  | 133           | 67           | Public                |
| University of Illinois - Chicago                    | 7                  | 133           | 67           | Public                |
| University of Nevada - Reno                         | 7                  | 133           | 67           | Public                |
| University of Richmond                              | 7                  | 133           | 67           | Private               |
| Wichita State University                            | 7                  | 133           | 67           | Public                |
| Amherst College                                     | 6                  | 143           | 71           | Private               |
| Barnard College                                     | 6                  | 143           | 71           | Private               |
| Embry Riddle Aeronautical Univ. - Daytona Beach     | 6                  | 143           | 71           | Private               |
| Gustavus Adolphus College                           | 6                  | 143           | 71           | Private               |
| Kenyon College                                      | 6                  | 143           | 71           | Private               |
| Occidental College                                  | 6                  | 143           | 71           | Private               |
| Scripps College                                     | 6                  | 143           | 71           | Private               |
| University of Oregon                                | 6                  | 143           | 73           | Public                |
| Wayne State University                              | 6                  | 143           | 73           | Public                |
| Wellesley College                                   | 6                  | 143           | 71           | Private               |

## The Top 200 Institutions – National Merit Scholars (2019)

| Top 153-185 Institutions in National Merit Scholars | Number of Scholars | National Rank | Control Rank | Institutional Control |
|-----------------------------------------------------|--------------------|---------------|--------------|-----------------------|
| Bucknell University                                 | 5                  | 153           | 79           | Private               |
| Colby College                                       | 5                  | 153           | 79           | Private               |
| College of Wooster                                  | 5                  | 153           | 79           | Private               |
| Davidson College                                    | 5                  | 153           | 79           | Private               |
| Lawrence University                                 | 5                  | 153           | 79           | Private               |
| Lewis & Clark College                               | 5                  | 153           | 79           | Private               |
| Oregon State University                             | 5                  | 153           | 75           | Public                |
| Swarthmore College                                  | 5                  | 153           | 79           | Private               |
| University of St. Thomas (MN)                       | 5                  | 153           | 79           | Private               |
| University of Wyoming                               | 5                  | 153           | 75           | Public                |
| Virginia Polytechnic Institute and State University | 5                  | 153           | 75           | Public                |
| Washington State University - Pullman               | 5                  | 153           | 75           | Public                |
| Butler University                                   | 4                  | 165           | 87           | Private               |
| Haverford College                                   | 4                  | 165           | 87           | Private               |
| Hendrix College                                     | 4                  | 165           | 87           | Private               |
| Hope College                                        | 4                  | 165           | 87           | Private               |
| Ithaca College                                      | 4                  | 165           | 87           | Private               |
| Marquette University                                | 4                  | 165           | 87           | Private               |
| North Dakota State University                       | 4                  | 165           | 79           | Public                |
| Ohio University - Athens                            | 4                  | 165           | 79           | Public                |
| Pepperdine University                               | 4                  | 165           | 87           | Private               |
| Saint Louis University - St. Louis                  | 4                  | 165           | 87           | Private               |
| University of California - Davis                    | 4                  | 165           | 79           | Public                |
| University of Connecticut - Storrs                  | 4                  | 165           | 79           | Public                |
| University of Dayton                                | 4                  | 165           | 87           | Private               |
| University of Maine - Orono                         | 4                  | 165           | 79           | Public                |
| University of Montana - Missoula                    | 4                  | 165           | 79           | Public                |
| University of Nevada - Las Vegas                    | 4                  | 165           | 79           | Public                |
| University of Southern Mississippi                  | 4                  | 165           | 79           | Public                |
| Vassar College                                      | 4                  | 165           | 87           | Private               |
| Western Washington University                       | 4                  | 165           | 79           | Public                |
| William & Mary                                      | 4                  | 165           | 79           | Public                |
| Bryn Mawr College                                   | 3                  | 185           | 97           | Private               |
| Colgate University                                  | 3                  | 185           | 97           | Private               |
| College of Charleston                               | 3                  | 185           | 89           | Public                |
| Creighton University                                | 3                  | 185           | 97           | Private               |
| Drexel University                                   | 3                  | 185           | 97           | Private               |
| Middlebury College                                  | 3                  | 185           | 97           | Private               |
| Oklahoma Christian University                       | 3                  | 185           | 97           | Private               |
| Reed College                                        | 3                  | 185           | 97           | Private               |
| South Dakota State University                       | 3                  | 185           | 89           | Public                |
| Truman State University                             | 3                  | 185           | 89           | Public                |
| University of Delaware                              | 3                  | 185           | 89           | Public                |
| University of Evansville                            | 3                  | 185           | 97           | Private               |
| University of North Dakota                          | 3                  | 185           | 89           | Public                |
| University of Puget Sound                           | 3                  | 185           | 97           | Private               |
| Utah State University                               | 3                  | 185           | 89           | Public                |
| Wake Forest University                              | 3                  | 185           | 97           | Private               |

## Source Notes

### Total Research Expenditures Federal Research Expenditures

Source: Higher Education Research and Development (HERD) Survey, FY 2018

Each year, the National Science Foundation (NSF) collects data from hundreds of academic institutions on expenditures for research and development in science and engineering fields and classifies them by source of funds (e.g., federal government, state and local government, industry, etc.). These data are the primary source of information on academic research and development (R&D) expenditures in the United States. Included in this survey are all activities specifically organized to produce research outcomes that are separately budgeted and accounted for. This “organized research” may be funded by an external agency or organization (“sponsored research”) or by a separately budgeted organizational unit within the institution (“university research”). This report excludes activities sponsored by external agencies that involve instruction, training (except training in research techniques, which is considered organized research), and health service, community service or extension service projects.

All Federally Funded Research Labs (FFRLs) are excluded from these academic expenditures data, including the following: Jet Propulsion Laboratory (California Institute of Technology); Los Alamos National Lab, Lawrence Livermore Lab, Lawrence Berkeley Lab (University of California); Software Engineering Institute (Carnegie Mellon); Argonne National Laboratory (University of Chicago); National Astronomy and Ionospheric Center (Cornell); Ames Laboratory (Iowa State University); Lincoln Laboratory (MIT); Plasma Physics Lab (Princeton); and SLAC National Accelerator Laboratory (Stanford). The NSF data no longer classify the Applied Physics Lab (APL) at Johns Hopkins as an FFRL, but federal funds support the vast majority of research conducted there. The APL makes up more than one-half of Johns Hopkins’ total federal R&D expenditures.

While inconsistencies in reporting (known and unknown) do exist here, as in any survey of this type, problems arise mostly when one breaks out the data by source of funds. NSF expects institutions to use year-end accounting records to complete this report, and there are nationally recognized accounting guidelines for higher education institutions. However, there are also countless variations in institutional policy that determine whether the university reports a particular expenditure as coming from one source or another, or possibly not counted at all. Take federal formula funds for agriculture (e.g., Hatch-McIntire, Smith-Lever) as an example. We conducted an informal survey of the appropriate institutions in the Association of American Universities (AAU) and found that two out of eleven land grants did not include any of these federal funds in their 1997 NSF data, while others included all or some of these monies. Because these funds make

up a very small percentage of the total research expenditures in any given year, the impact on our total research rankings is slight. The agriculture formula funds will have a somewhat greater, but still small, impact on the federal research rankings.

We believe that the reporting inconsistencies in the data are relatively minor when using the total research expenditures and the federal research expenditures component. Federal and state government audits of institutional accounting make deceptive practices highly unlikely, even though these entities do not audit the NSF data directly. NSF goes to great lengths to verify the accuracy of the data, especially federal expenditure data—checking them against several other federal agencies that collect the same or similar information. In fact, all major federal agencies and their subdivisions submit data to NSF identifying research obligations to universities each year. Historically, the NSF data have tracked very closely the data reported by universities. Further, for their National Patterns of R&D Resources series, NSF prefers to use the figures reported by the performers of the work (that is, academic institutions, industry, nonprofits) because they believe that the performers are in the best position to accurately report these expenditures.

In some sections of this report, these expenditure data are deflated to constant 1983 dollars to show real change over time. While NSF uses the Gross Domestic Price (GDP) implicit price deflator in its reports on federal trends in research, we use the Higher Education Price Index (HEPI) because of its narrower focus. Originally developed by Research Associates of Washington and currently managed by Commonfund Institute, the HEPI illustrates the effect of inflation on college and university operations.<sup>1</sup> In contrast, the GDP implicit price deflator is based on change in the entire U.S. economy and, as noted by NSF itself, “[its] use more accurately reflects an ‘opportunity cost’ criterion [i.e., the value of R&D in terms of the amount of other goods and services that could have been spent with the same amount of money], rather than a measure of cost changes of doing research.”<sup>2</sup>

### Endowment Assets

Source: NACUBO-TIAA Study of Endowment, endowment market value as of June 30, 2019.

Institutions report the market value of their endowment assets as of June 30 to three different sources, and they quite often use three different values. For this project, we use the NACUBO-Commonfund Study of Endowment because of NACUBO’s long history of reporting endowments of higher education institutions, their emphasis on using audited financial statements, and their focus on net assets (i.e., includes returns on investments and excludes investment fees and other withdrawals). NACUBO conducts its study annually and reports the results each February in the Chronicle of Higher Education.

Another source for endowment assets is the Council for Aid to Education's (CAE) annual Voluntary Support of Education (VSE) survey, cosponsored by the Council for Advancement and Support of Education (CASE) and the National Association of Independent Schools. The VSE survey is useful as a secondary resource because it provides more single-campus data than the other two sources. For those institutions that report a system-wide total to NACUBO, we often use the VSE data to calculate a campus' percentage contribution to the entire system, applying that factor to the NACUBO figure. In other cases, we may substitute the VSE figure when the institution indicates that this is a good data source.

The National Center for Education Statistics (NCES) Integrated Postsecondary Education Data System (IPEDS) Finance Survey also collects information on endowment assets. IPEDS data are released later than other two sources and are used when NACUBO nor VSE figures are unavailable.

In our inaugural report of *The Top American Research Universities* in 2000, we noted the wide variation in the reporting of endowment market value between all three sources. An examination of the 1997 endowment figures showed only one university (University of North Carolina at Chapel Hill) had submitted the same figure to each of the three organizations. In a more recent study of major research universities, we found about one-third of the all institutions report identical figures but just seven universities in our over \$40 million federal research group. In the earlier study, we found that endowment assets reported to IPEDS tended to be lower than NACUBO or VSE data, but this is no longer true. In general, the greater the endowment the likelihood that the figures reported to the three sources will vary. Both studies found no consistent pattern to explain reporting variations among the institutions.

## Annual Giving

Source: Council for Aid to Education's Voluntary Support of Education (VSE) Survey, FY 2019.

The Council for Aid to Education (CAE), formerly an independent subsidiary of RAND, has produced the Voluntary Support of Education (VSE) Survey since 1957. The annual giving data include all contributions actually received during the institution's fiscal year in the form of cash, securities, company products, and other property from alumni, non-alumni individuals, corporations, foundations, religious organizations, and other groups. Not included in the totals are public funds, earnings on investments held by the institution, and unfulfilled pledges.

CAE's VSE Data Miner service, available online, provides 11 years of data for all participating institutions. Although this is a

subscription-based service and requires a user ID and password, limited access is available online at [<http://www.cae.org/vse>].

## National Academy Members

Source: National Academy of Sciences, National Academy of Engineering, and National Academy of Medicine membership directories for 2019.

One of the highest honors that academic faculty can receive is membership in the National Academy of Sciences (NAS), the National Academy of Engineering (NAE), or the National Academy of Medicine (NAM), formerly known as the Institute of Medicine. All three are private, nonprofit organizations and serve as advisors to the federal government on science, technology, and medicine. Nominated and voted on by active members, newly elected members of these organizations receive life terms. Individuals elected to membership come from all sectors—academia, industry, government, and not-for-profit agencies or organizations. Member election dates are in February (NAE), April (NAS), and October (NAM).

The data collected for these rankings use active or emeritus members at their affiliated work institution, as reported in the online membership directories. In all cases, we were able to determine the specific campus for individual members. We re-check institutional affiliation annually to account for established members who have changed employers or whose membership is no longer active.

## Faculty Awards in the Arts, Humanities, Science, Engineering, and Health

Source: Directories or web-based listings for multiple agencies or organizations.

For this category, we collect data from several prominent grant and fellowship programs in the arts, humanities, science, engineering, and health fields. Included in this measure are:

- American Council of Learned Societies (ACLS) Fellows, 2018-19
- Beckman Young Investigators, 2019
- Burroughs Wellcome Fund Career Awards, 2019
- Cottrell Scholars, 2019
- Fulbright American Scholars, 2019-20
- Getty Scholars in Residence, 2019-20
- Guggenheim Fellows, 2019
- Howard Hughes Medical Institute Investigators, 2019
- Lasker Medical Research Awards, 2019
- MacArthur Foundation Fellows, 2019

- National Endowment for the Humanities (NEH) Fellows, 2020
- National Humanities Center Fellows, 2019-20
- National Institutes of Health (NIH) MERIT (R37), FY 2019
- NSF CAREER awards, 2019
- Newberry Library Long-term Fellows, 2019-20
- Pew Scholars in Biomedicine, 2019
- Robert Wood Johnson Policy Fellows, 2019-20
- Searle Scholars, 2019
- Sloan Research Fellows, 2019
- Woodrow Wilson Fellows, 2019-20

While the vast majority of these programs clearly identify a particular campus, in a few instances we used the institution's web-based phone directory to determine the correct campus.

## Doctorates Awarded

Source: NCES IPEDS Completions Survey, doctoral degrees awarded between July 1, 2018, and June 30, 2019.

Each year, universities report their degrees awarded to the NCES in the IPEDS Completions Survey. IPEDS provides straightforward instructions for reporting doctoral degrees awarded, and we do not find any inconsistencies in reporting among the universities included in our rankings. IPEDS asks each institution to identify the number of Doctor of Education, Doctor of Juridical Science, Doctor of Public Health, and Doctor of Philosophy degrees awarded between July 1 and June 30.

Most institutions in our study submit degree data by campus or offer doctoral degrees solely or primarily at the main campus.

In addition to doctorate degrees, we present degrees awarded at other levels—associate's, bachelor's, master's, and professional degrees—in the Student Characteristics table.

## Postdoctoral Appointees

Source: NSF/Division of Science Resource Statistics (SRS) Survey of Graduate Students and Postdoctorates in Science and Engineering, Fall 2018.

Each year, NSF and NIH collect data from all institutions offering graduate programs in any science, engineering, or health field. The Survey of Graduate Students and Postdoctorates in Science and Engineering (also called the Graduate Student Survey or GSS) reflects graduate enrollment and postdoctoral employment at the beginning of the academic year. Postdoctorates are defined in the GSS as "individuals with science and engineering PhD's,

MD's, DDS's or DVM's and foreign degrees equivalent to U.S. doctorates who devote their primary effort to their own research training through research activities or study in the department under temporary appointments carrying no academic rank." The definition excludes clinical fellows and those in medical residency training programs unless the primary purpose of their appointment is for research training under a senior mentor.

In the methodological notes for this survey,<sup>3</sup> NSF indicates that it verifies the data with the institutional coordinator when dramatic year-to-year fluctuations are noted. In addition, in this data set, it is unclear whether an institution has actually reported zero postdocs or NSF has simply assigned a zero for non-response (rather than imputing by using prior-year or peer data, as described in NSF methodological notes). This year, in cases where we suspect it is not a true zero, we left the field blank.

Although each doctorate-granting campus submits data separately, NSF often aggregates them in its published reports. In all cases, we obtain the single-campus data for these schools directly from NSF.

## SAT Scores

Source: NCES IPEDS Survey, SAT and ACT scores for Fall 2018.

IPEDS reports the 25th and 75th percentiles for verbal and quantitative SAT I scores for most institutions in our study. For our measure, we calculated the median of that range. Some institutions report the ACT instead of the SAT to IPEDS and some report both. We selected the test which has the greatest percentage of students reporting. To convert ACT scores, we use a conversion table provided by The College Board<sup>4</sup> to generate a comparable SAT equivalent score. When an institution submits neither an SAT nor ACT score, we substitute data from other national data sources.

## Other Measures of Undergraduate Quality

### National Merit and Achievement Scholars

Source: The 2018-19 National Merit Scholarship Corporation Annual Report, which reflects the 2019 freshman class.

The National Merit Scholarship Corporation (NMSC) is an independent, nonprofit organization that awards scholarships to the nation's outstanding high school seniors based on their academic achievement, qualifying test scores, high school principal and counselor recommendations, and their activities, interests, and goals. The NMSC names approximately 15,000 National Merit Finalists each February. Of these, about 8,000 will receive a National Merit \$2,500 Scholarship, a corporate-sponsored scholarship, or a college-sponsored scholarship.

Until it was discontinued in 2015, National Achievement Scholars were selected and funded in a similar fashion and represented the nation's outstanding African-American students. Ideally, the National Hispanic Scholars Program should also be included in this category, but it does not track the enrollment of its scholarship winners. Should it do so in the future, we will include these students in our data. In this study, Merit and Achievement scholarships are credited to the main campus if the NMSC Annual Report does not indicate a branch campus.

While the number of National Merit and National Achievement award winners in the entering class provides an indication of the attractiveness of a university's undergraduate program to outstanding students, it is also an indicator that is sensitive to institutional policies on financial aid. Because the number of Merit Scholars is small, relatively small changes in institutional aid policies can have a significant impact on the number of National Merit Scholars enrolling in institutions. The average SAT score provides a broader-based and more reliable measure of overall undergraduate quality; for those reasons, we prefer the SAT scores to the number of National Merit and Achievement Scholars as an indicator of undergraduate quality.

## Institutional Characteristics

### Medical Schools

Source: NCES IPEDS Completions Survey, MD degrees awarded between July 1, 2018, and June 30, 2019.

Although the IPEDS Institutional Characteristics Survey does have a "medical" field that indicates whether an institution grants a medical degree, we choose not to use its data because it includes medical degrees in Veterinary Medicine, Dentistry, and other professional health-related fields. For our measure, we determined whether a particular campus awarded any MD degrees during the academic year. If the institution did not submit any data to IPEDS for that year, we then looked at whether it was accredited by the American Medical Association to determine whether the institution has a medical school.

### Land Grant Institutions

Source: National Association of State Universities and Land Grant Colleges.

The first Morrill Act in 1862 appropriated federal funds for universities to provide agricultural and technical education to their citizens. A second Morrill Act in 1890 expanded eligibility to include several historically black colleges and universities, and in 1994 several Native American tribal colleges were recognized as land grant institutions. Today, there is at least one land grant institution in each state and U.S. territory and in the District of Columbia. Of the 106 institutions, most are public universities.

Federal land grant institutions receive both federal and state dollars in support of their agricultural and extension activities.

While land grant status technically applies to some university systems, such as the University of California and the University of Nebraska, for our study we designate as land grant institutions only those schools that actually perform that function (e.g., UC-Berkeley, UC-Davis, UC-Riverside, Nebraska-Lincoln). In these cases, the land grant field will identify whether an institution is part of a system-wide land grant and whether the vast majority of the activity occurs on that campus. For example, UC-Davis is coded as "Yes-System" while UCLA is coded as "No-System."

## Research Focus

Source: Higher Education Research and Development, FY 2018.

In addition to reporting expenditure data by source of funds, NSF identifies in what major disciplines the money is expended. In the Research by Discipline table we provide the proportion of total and federal expenditures in each discipline for those institutions with more than \$40 million in federal research. These data are useful for developing groups of similar institutions for peer analysis.

The Institutional Characteristics table provides a summary measure of an institution's research strength and concentration based on these discipline-level expenditures. Universities with 95-100% of their federal research dollars spent in one particular discipline are coded as "all." We identify institutions with 75-94% in one area as "heavy" and label those with 50-74% of their expenditures concentrated as "strong." Other universities with 25-49% in one or more disciplines we describe as "moderate." A few institutions (but none in the more than \$40 million group) have expenditures distributed fairly evenly across the disciplines; those we code as "mixed."

In some cases, where an institution reports as a multi-campus entity, we made adjustments to break out the discipline-level expenditure data by single campus. Typically, this involved moving all or a portion of the life sciences expenditures to the health or medical center campus. IPEDS fall enrollment and graduate degrees by discipline data also were used to help in this effort.

While these data offer some insight as to the research structure of a university, their usefulness is limited. For example, we may be tempted to use the life sciences as a surrogate for medical research, but we must remember that they also include agricultural and biological sciences. Further, the growing trend toward multidisciplinary and interdisciplinary projects may make it more difficult for universities to accurately reflect expenditures by discipline or sub-discipline. We choose not to break out these sub-disciplines because the data are increasingly prone to error as further adjustments are made.

## Student Characteristics

### Fall Enrollment

Source: NCES IPEDS Fall Enrollment Survey, 2018.

Each November, institutions report their current fall headcount enrollment to the IPEDS Fall Enrollment Survey. Enrollment figures include both degree seeking and non-degree seeking students. We provide the headcount enrollment by level as presented by IPEDS, along with the percentage of those attending part-time. Graduate students include those seeking specialist degrees in engineering and education. First professional students include those seeking degrees in medical fields, such as Chiropractic, Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry, and Veterinary Medicine, as well as those seeking degrees in Law and Theology.

Each campus in our study submits enrollment data by campus, except for the few institutions identified in our Data Notes section. Because this is an informational item and not one of our nine quality measures, we did not attempt to adjust these figures.

### Federal Research with and without Medical School Research

Source: Association of American Medical Colleges, FY 2018

The Association of American Medical Colleges collects data on federally sponsored research at medical colleges through on the Liaison Committee on Medical Education (LCME) Part I-A, Annual Financial Questionnaire. We calculate each medical school's federal R&D by summing the recorded dollars and a portion of the relative administrative costs. We exclude the not-recorded dollars.

## Footnotes

- 1 About HEPI, Commonfund Institute  
(Online: <http://www.commonfund.org/CommonfundInstitute/HEPI>)
- 2 National Patterns of R&D Resources, 2003: Technical Notes  
(Online: <http://www.nsf.gov/statistics/nsf05308/appa.htm>)
- 3 Survey Methodology: Survey of Graduate Students and Postdoctorates in Science and Engineering  
(Online: <http://www.nsf.gov/statistics/srvygradpostdoc/>)
- 4 ACT and SAT Concordance Tables, November 6, 2009  
(Online: <http://www.research.collegeboard.org/publications>)

## Data Notes

The raw data used for *The Top American Research Universities* project—obtained from federal agencies and national organizations—often contain information on single-campus institutions, multiple-campus institutions, and state university systems, without clearly identifying the distinctions. This makes national comparisons difficult and unreliable.

To increase the validity and usefulness of these data, we adjusted the original reported figures, when necessary, to ensure that all data represent the strength of a single-campus institution. *MUP* Center bases its adjustments on information gathered from the reporting agency or from the university itself. In cases where the published data represent a single campus, we do not adjust the data. When the data represent more than one campus, we first attempt to obtain a figure directly from the National Science Foundation (NSF) (for research expenditures and post-doctorates), from the institution itself, or from the university system office that submitted the data. If unavailable from those primary sources, we use an estimated or substitute figure derived from information found on the institution's website.

If the institution provides an estimate representing at least 97% of the originally published figure, we credit the full amount to the main campus. Otherwise, we use the estimate provided by the institution.

*MUP* Center does not adjust the private university data because of multi-campus or system-wide reporting. We treat all private universities in this study as single-campus institutions because, while some may have multiple campuses, they are generally in or around a single city and considered an integral part of the main campus. Furthermore, private institutions generally do not break out their data by regional, branch, or affiliated campus as often happens with public institutions.

The following tables outline the various adjustments or substitutions that we made to the original data. The tables list institutions alphabetically and include both private and public universities. For the purpose of this report, we provide notes for institutions with more than \$40 million in fiscal year 2018 federal research.

## The Top American Research Universities

| Data Notes for Universities with Over \$40 Million in Federal Research |                                         |                                    |                                                   |
|------------------------------------------------------------------------|-----------------------------------------|------------------------------------|---------------------------------------------------|
| University / Statistics                                                | Original Data<br>(dollars in thousands) | MUP Data<br>(dollars in thousands) | Comments                                          |
| Auburn University                                                      |                                         |                                    |                                                   |
| 2019 Endowment                                                         |                                         | 792,983                            | Estimate at least 97% is main campus.             |
| 2019 Giving                                                            |                                         | 96,605                             | Estimate at least 97% is main campus.             |
| Cleveland State University                                             |                                         |                                    |                                                   |
| 2019 Endowment                                                         |                                         | 7,427                              | Substituted IPEDS 2019.                           |
| 2019 Giving                                                            |                                         | 14,276                             | Estimate based on univeristy documents.           |
| Cornell University                                                     |                                         |                                    |                                                   |
| 2019 Endowment                                                         | 7,328,241                               | 5,805,433                          | Estimate 79.2% based on published documents.      |
| 2018 Federal Research                                                  | 464,468                                 | 297,855                            | Estimate 64.1% based on university documents.     |
| 2019 Giving                                                            | 433,311                                 | 358,077                            | Estimate 82.6% based on 2019 IPEDS.               |
| 2018 Total Research                                                    | 1,033,740                               | 630,255                            | Estimate 61.0% based on university documents.     |
| Icahn School of Medicine at Mount Sinai                                |                                         |                                    |                                                   |
| 2019 Endowment                                                         |                                         | 714,803                            | Substituted IPEDS 2019.                           |
| 2019 Giving                                                            |                                         | 168,366                            | Substituted 2019 IPEDS.                           |
| Indiana University - Bloomington                                       |                                         |                                    |                                                   |
| 2019 Endowment                                                         | 2,486,037                               | 1,172,818                          | Substituted 2019 IPEDS.                           |
| 2019 Giving                                                            | 388,435                                 | 236,740                            | Estimate based on IPEDS and university documents. |
| Louisiana State University - Baton Rouge                               |                                         |                                    |                                                   |
| 2019 Endowment                                                         | 926,247                                 | 519,887                            | Substituted 2019 VSE.                             |
| Medical College of Wisconsin                                           |                                         |                                    |                                                   |
| 2019 Giving                                                            |                                         | 42,907                             | Substituted 2019 IPEDS.                           |
| Michigan State University                                              |                                         |                                    |                                                   |
| 2019 Endowment                                                         |                                         | 3,404,779                          | Combined university and foundation.               |
| New Mexico State University - Las Cruces                               |                                         |                                    |                                                   |
| 2019 Endowment                                                         |                                         | 182,676                            | Estimate at least 97% is main campus.             |
| New York University                                                    |                                         |                                    |                                                   |
| 2018 Postdoc                                                           |                                         | 753                                | Includes NY Polytechnic Institute (31)            |
| Ohio State University - Columbus                                       |                                         |                                    |                                                   |
| 2019 Endowment                                                         |                                         | 5,256,759                          | Estimate at least 97% is main campus.             |
| 2019 Giving                                                            |                                         | 406,588                            | Estimate at least 97% is main campus.             |
| Oklahoma State University - Stillwater                                 |                                         |                                    |                                                   |
| 2019 Endowment                                                         |                                         | 642,500                            | Substituted institutional data.                   |

## The Top American Research Universities

| Data Notes for Universities with Over \$40 Million in Federal Research |                                         |                                    |                                                 |
|------------------------------------------------------------------------|-----------------------------------------|------------------------------------|-------------------------------------------------|
| University / Statistics                                                | Original Data<br>(dollars in thousands) | MUP Data<br>(dollars in thousands) | Comments                                        |
| Pennsylvania State University - Hershey Medical Center                 |                                         |                                    |                                                 |
| 2019 Endowment                                                         | 4,546,105                               | 615,247                            | Substituted data from published documents.      |
| 2018 Federal Research                                                  | 557,323                                 | 55,539                             | Estimate 10.0% based on university documents.   |
| 2019 Giving                                                            | 198,885                                 | 39,180                             | Estimate 19.7% based on university documents.   |
| 2018 Postdoc                                                           | 401                                     | 57                                 | Estimate 14.2% based on postdoc disciplines.    |
| 2018 Total Research                                                    | 885,661                                 | 101,701                            | Estimate 11.5% based on university documents.   |
| Pennsylvania State University - University Park                        |                                         |                                    |                                                 |
| 2019 Endowment                                                         | 4,546,105                               | 2,549,603                          | Substituted data from published documents.      |
| 2018 Federal Research                                                  | 557,323                                 | 501,784                            | Estimate 90.0% based on university documents.   |
| 2019 Giving                                                            | 198,885                                 | 153,738                            | Estimate 77.3% based on university documents.   |
| 2018 Postdoc                                                           | 401                                     | 344                                | Estimate 85.8% based on postdoc disciplines.    |
| 2018 Total Research                                                    | 885,661                                 | 783,960                            | Estimate 88.5% based on university documents.   |
| Purdue University - West Lafayette                                     |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 2,625,278                          | Estimate at least 97% is main campus.           |
| 2019 Giving                                                            |                                         | 190,858                            | Estimate at least 97% is main campus.           |
| Rockefeller University                                                 |                                         |                                    |                                                 |
| 2019 Giving                                                            |                                         | 101,644                            | Substituted 2019 IPEDS.                         |
| Rush University                                                        |                                         |                                    |                                                 |
| 2019 Giving                                                            |                                         | 11,352                             | Substituted 2019 IPEDS.                         |
| Rutgers University - New Brunswick                                     |                                         |                                    |                                                 |
| 2019 Endowment                                                         | 1,476,072                               | 1,253,683                          | Estimate 84.9% based on 2018 IPEDS.             |
| 2019 Giving                                                            | 158,936                                 | 152,940                            | Estimate 96.2% based on university documents.   |
| 2018 Postdoc                                                           |                                         | 290                                | Includes 90 reported under UMDNJ.               |
| Texas A&M University - College Station                                 |                                         |                                    |                                                 |
| 2019 Endowment                                                         | 13,514,528                              | 12,736,450                         | Substituted 2019 VSE.                           |
| Thomas Jefferson University                                            |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 954,177                            | Substituted 2019 VSE. Did not report to NACUBO. |
| University of Alabama - Birmingham                                     |                                         |                                    |                                                 |
| 2019 Endowment                                                         | 1,519,595                               | 519,025                            | Substituted 2019 VSE.                           |
| University of Alabama - Huntsville                                     |                                         |                                    |                                                 |
| 2019 Endowment                                                         | 1,519,595                               | 77,250                             | Substituted 2019 VSE.                           |
| University of Alaska - Fairbanks                                       |                                         |                                    |                                                 |
| 2019 Endowment                                                         | 364,003                                 | 230,603                            | Estimate 63.4% based on IPEDS.                  |
| 2019 Giving                                                            |                                         | 36,720                             | Estimate at least 97% is main campus.           |

## The Top American Research Universities

| Data Notes for Universities with Over \$40 Million in Federal Research |                                         |                                    |                                                     |
|------------------------------------------------------------------------|-----------------------------------------|------------------------------------|-----------------------------------------------------|
| University / Statistics                                                | Original Data<br>(dollars in thousands) | MUP Data<br>(dollars in thousands) | Comments                                            |
| University of Arkansas - Fayetteville                                  |                                         |                                    |                                                     |
| 2019 Endowment                                                         |                                         | 1,221,935                          | Substituted 2019 VSE.                               |
| University of Arkansas for Medical Sciences                            |                                         |                                    |                                                     |
| 2019 Endowment                                                         |                                         | 60,485                             | Substituted IPEDS 2019.                             |
| 2019 Giving                                                            |                                         | 19,840                             | Substituted 2019 IPEDS.                             |
| University of California - Berkeley                                    |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 2,070,905                               | 4,903,675                          | Substituted 2019 VSE.                               |
| University of California - Davis                                       |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 477,555                                 | 1,670,738                          | Substituted 2019 VSE.                               |
| University of California - Los Angeles                                 |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 2,746,930                               | 4,902,768                          | Substituted 2019 VSE.                               |
| University of California - Riverside                                   |                                         |                                    |                                                     |
| 2019 Endowment                                                         |                                         | 257,119                            | Substituted 2019 VSE.                               |
| University of California - San Diego                                   |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 792,364                                 | 1,746,546                          | Substituted 2019 VSE.                               |
| University of California - San Francisco                               |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 1,840,206                               | 3,679,094                          | Substituted 2019 VSE.                               |
| University of California - Santa Cruz                                  |                                         |                                    |                                                     |
| 2019 Endowment                                                         |                                         | 210,387                            | Substituted 2019 VSE.                               |
| University of Cincinnati - Cincinnati                                  |                                         |                                    |                                                     |
| 2019 Endowment                                                         |                                         | 1,453,000                          | Estimate at least 97% is main campus.               |
| University of Colorado - Boulder                                       |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 1,452,722                               | 705,656                            | Substituted data from published documents.          |
| 2019 Giving                                                            | 328,347                                 | 136,225                            | Estimate 41.5% based on university documents.       |
| University of Colorado - Denver/Anschutz Medical                       |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 1,452,722                               | 552,885                            | Substituted data from published documents.          |
| 2019 Giving                                                            | 328,347                                 | 175,877                            | Estimate 53.6% based on university documents.       |
| University of Connecticut - Health Center                              |                                         |                                    |                                                     |
| 2018 Doctorates                                                        | 364                                     | 30                                 | Est. based on univ. factbook and IPEDS Completions. |
| 2019 Endowment                                                         | 462,375                                 | 108,381                            | Estimate 23.4% based on published documents.        |
| 2018 Federal Research                                                  | 139,022                                 | 50,436                             | Estimate 36.3% based on university documents.       |
| 2019 Giving                                                            | 60,752                                  | 5,200                              | Estimate 8.6% based on university documents.        |
| 2018 Postdoc                                                           | 227                                     | 114                                | Estimate 50.2%% based on postdoc disciplines.       |
| 2018 Total Research                                                    | 256,826                                 | 93,283                             | Estimate 36.3% based on university documents.       |

| Data Notes for Universities with Over \$40 Million in Federal Research |                                         |                                    |                                                                        |
|------------------------------------------------------------------------|-----------------------------------------|------------------------------------|------------------------------------------------------------------------|
| University / Statistics                                                | Original Data<br>(dollars in thousands) | MUP Data<br>(dollars in thousands) | Comments                                                               |
| University of Connecticut - Storrs                                     |                                         |                                    |                                                                        |
| 2018 Doctorates                                                        | 364                                     | 334                                | Est. based on univ. factbook and IPEDS Completions.                    |
| 2019 Endowment                                                         | 462,375                                 | 353,994                            | Estimate 76.6% based on published documents.                           |
| 2018 Federal Research                                                  | 139,022                                 | 88,586                             | Estimate 63.7% based on university documents.                          |
| 2019 Giving                                                            | 60,752                                  | 55,552                             | Estimate 91.4% based on university documents.                          |
| 2018 Postdoc                                                           | 227                                     | 113                                | Estimate 49.8% based on postdoc disciplines.                           |
| 2018 Total Research                                                    | 256,826                                 | 163,543                            | Estimate 63.7% based on university documents.                          |
| University of Hawaii - Manoa                                           |                                         |                                    |                                                                        |
| 2019 Endowment                                                         |                                         | 326,993                            | Estimate at least 97% is main campus.                                  |
| University of Houston - University Park                                |                                         |                                    |                                                                        |
| 2019 Endowment                                                         | 959,815                                 | 658,493                            | Substituted 2019 VSE.                                                  |
| University of Illinois - Chicago                                       |                                         |                                    |                                                                        |
| 2019 Endowment                                                         | 2,353,821                               | 357,455                            | Substituted 2019 VSE.                                                  |
| University of Illinois - Urbana-Champaign                              |                                         |                                    |                                                                        |
| 2019 Endowment                                                         | 2,353,821                               | 1,857,157                          | Substituted 2019 VSE.                                                  |
| University of Kansas - Lawrence                                        |                                         |                                    |                                                                        |
| 2018 Doctorates                                                        | 356                                     | 317                                | Estimate based on KS Board of Regents data book and IPEDS Completions. |
| 2019 Endowment                                                         | 1,816,931                               | 1,419,568                          | Estimate 78.1% based on published documents.                           |
| 2018 Federal Research                                                  | 130,036                                 | 85,397                             | Estimate 65.7% based on university documents.                          |
| 2019 Giving                                                            | 257,985                                 | 208,245                            | Estimate 80.7% based on university documents.                          |
| 2018 Postdoc                                                           | 174                                     | 99                                 | Estimate 56.9% based on postdoc disciplines.                           |
| 2018 Total Research                                                    | 269,494                                 | 177,249                            | Estimate 65.8% based on university documents.                          |
| University of Kansas Medical Center                                    |                                         |                                    |                                                                        |
| 2018 Doctorates                                                        | 356                                     | 39                                 | Estimate based on KS Board of Regents data book and IPEDS Completions. |
| 2019 Endowment                                                         | 1,816,931                               | 397,363                            | Estimate 21.9% based on published documents.                           |
| 2018 Federal Research                                                  | 130,036                                 | 44,639                             | Estimate 34.3% based on university documents.                          |
| 2019 Giving                                                            | 257,985                                 | 49,740                             | Estimate 19.3% based on university documents.                          |
| 2018 Postdoc                                                           | 174                                     | 75                                 | Estimate 43.1% based on postdoc disciplines.                           |
| 2018 Total Research                                                    | 269,494                                 | 92,245                             | Estimate 34.2% based on university documents                           |
| University of Maine - Orono                                            |                                         |                                    |                                                                        |
| 2019 Endowment                                                         | 227,085                                 | 337,808                            | Substituted 2019 VSE.                                                  |
| University of Maryland - Baltimore                                     |                                         |                                    |                                                                        |
| 2019 Endowment                                                         | 1,436,215                               | 361,175                            | Substituted 2019 VSE.                                                  |

## The Top American Research Universities

| Data Notes for Universities with Over \$40 Million in Federal Research |                                         |                                    |                                                     |
|------------------------------------------------------------------------|-----------------------------------------|------------------------------------|-----------------------------------------------------|
| University / Statistics                                                | Original Data<br>(dollars in thousands) | MUP Data<br>(dollars in thousands) | Comments                                            |
| University of Maryland - Baltimore County                              |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 1,436,215                               | 102,019                            | Substituted 2019 VSE.                               |
| University of Maryland - College Park                                  |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 1,436,215                               | 652,556                            | Substituted 2019 VSE.                               |
| University of Massachusetts - Amherst                                  |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 881,302                                 | 367,075                            | Substituted 2019 VSE.                               |
| University of Massachusetts Medical School - Worcester                 |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 881,302                                 | 295,000                            | Substituted 2019 VSE.                               |
| University of Michigan - Ann Arbor                                     |                                         |                                    |                                                     |
| 2019 Endowment                                                         |                                         | 12,448,817                         | Estimate at least 97% is main campus.               |
| 2019 Giving                                                            |                                         | 500,987                            | Estimate at least 97% is main campus.               |
| University of Minnesota - Twin Cities                                  |                                         |                                    |                                                     |
| 2019 Endowment                                                         |                                         | 3,951,464                          | Estimate at least 97% is main campus.               |
| 2019 Giving                                                            | 388,635                                 | 373,210                            | Est. 96.0% based on IPEDS and university documents. |
| University of Missouri - Columbia                                      |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 1,743,142                               | 1,052,760                          | Substituted 2019 VSE.                               |
| University of Nebraska - Lincoln                                       |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 1,435,753                               | 1,082,434                          | Estimate 75.4% based on IPEDS.                      |
| 2019 Giving                                                            | 224,768                                 | 107,651                            | Estimate 47.9% based on 2019 IPEDS.                 |
| University of Nebraska Medical Center                                  |                                         |                                    |                                                     |
| 2019 Endowment                                                         | 1,435,753                               | 235,757                            | Estimate 16.4% based on IPEDS.                      |
| 2019 Giving                                                            | 224,768                                 | 117,117                            | Estimate 52.1% based on 2019 IPEDS.                 |
| University of New Hampshire - Durham                                   |                                         |                                    |                                                     |
| 2019 Endowment                                                         |                                         | 403,858                            | Substituted 2019 VSE.                               |
| University of New Mexico - Albuquerque                                 |                                         |                                    |                                                     |
| 2019 Giving                                                            |                                         | 60,157                             | Estimate at least 97% is main campus.               |
| University of Oklahoma - Health Sciences Center                        |                                         |                                    |                                                     |
| 2019 Endowment                                                         |                                         | 565,500                            | Estimate based on Institutional Data.               |
| 2018 Federal Research                                                  | 142,470                                 | 54,481                             | Estimate 38.2% based on university documents.       |
| 2019 Giving                                                            | 136,300                                 | 17,174                             | Estimate 12.6% based on 2019 IPEDS.                 |
| 2018 Total Research                                                    | 262,863                                 | 119,487                            | Estimate 45.5% based on university documents.       |

| Data Notes for Universities with Over \$40 Million in Federal Research |                                         |                                    |                                                 |
|------------------------------------------------------------------------|-----------------------------------------|------------------------------------|-------------------------------------------------|
| University / Statistics                                                | Original Data<br>(dollars in thousands) | MUP Data<br>(dollars in thousands) | Comments                                        |
| University of Oklahoma - Norman                                        |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 1,384,500                          | Estimate based on Institutional Data.           |
| 2018 Federal Research                                                  | 142,470                                 | 87,989                             | Estimate 61.8% based on university documents.   |
| 2019 Giving                                                            | 136,300                                 | 119,126                            | Estimate 87.4% based on 2019 IPEDS.             |
| 2018 Total Research                                                    | 262,863                                 | 143,376                            | Estimate 54.5% based on university documents.   |
| University of Oregon                                                   |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 1,131,111                          | Substituted 2019 VSE. Did not report to NACUBO. |
| University of South Carolina - Columbia                                |                                         |                                    |                                                 |
| 2019 Endowment                                                         | 788,261                                 | 713,376                            | Estimate 90.5% based on 2018 IPEDS.             |
| 2019 Giving                                                            |                                         | 104,246                            | Estimate at least 97% is main campus.           |
| University of South Florida - Tampa                                    |                                         |                                    |                                                 |
| 2019 Giving                                                            |                                         | 65,533                             | Estimate at least 97% is main campus.           |
| University of Tennessee - Knoxville                                    |                                         |                                    |                                                 |
| 2019 Endowment                                                         | 1,354,756                               | 750,492                            | Substituted 2019 VSE.                           |
| University of Texas - Austin                                           |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 13,817,599                         | Substituted 2019 VSE.                           |
| University of Texas - El Paso                                          |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 267,894                            | Substituted 2019 VSE.                           |
| University of Texas Health Science Center - Houston                    |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 552,060                            | Substituted 2019 VSE.                           |
| University of Texas Health Science Center - San Antonio                |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 617,388                            | Substituted 2019 VSE.                           |
| University of Texas MD Anderson Cancer Center                          |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 1,405,649                          | Substituted 2019 VSE.                           |
| University of Texas Medical Branch - Galveston                         |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 612,641                            | Substituted 2019 VSE.                           |
| University of Texas SW Medical Center - Dallas                         |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 2,007,032                          | Substituted 2019 VSE.                           |
| University of Vermont                                                  |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 566,714                            | Substituted 2019 VSE.                           |
| University of Washington - Seattle                                     |                                         |                                    |                                                 |
| 2019 Endowment                                                         |                                         | 2,935,220                          | Estimate at least 97% is main campus.           |
| 2019 Giving                                                            |                                         | 711,063                            | Estimate at least 97% is main campus.           |

## Data Notes for Universities with Over \$40 Million in Federal Research

| University / Statistics               | Original Data<br>(dollars in<br>thousands) | MUP Data<br>(dollars in<br>thousands) | Comments                                                        |
|---------------------------------------|--------------------------------------------|---------------------------------------|-----------------------------------------------------------------|
| University of Wisconsin - Madison     |                                            |                                       |                                                                 |
| 2019 Endowment                        | 3,152,578                                  | 3,553,672                             | Substituted 2019 VSE.                                           |
| University of Wyoming                 |                                            |                                       |                                                                 |
| 2019 Endowment                        |                                            | 531,547                               | Substituted 2019 VSE as only the foundation reported to NACUBO. |
| Washington State University - Pullman |                                            |                                       |                                                                 |
| 2019 Endowment                        |                                            | 1,067,842                             | Estimate at least 97% is main campus.                           |
| 2019 Giving                           |                                            | 98,680                                | Estimate at least 97% is main campus.                           |
| Weill Cornell Medical College         |                                            |                                       |                                                                 |
| 2019 Endowment                        | 7,328,241                                  | 1,522,808                             | Estimate 20.8% based on published documents.                    |
| 2018 Federal Research                 | 464,468                                    | 166,613                               | Estimate 35.9% based on university documents.                   |
| 2019 Giving                           | 433,311                                    | 75,234                                | Estimate 17.4% based on 2019 IPEDS.                             |
| 2018 Total Research                   | 1,033,740                                  | 403,485                               | Estimate 39.0% based on university documents.                   |

## Supplemental Notes

### Top American Research Universities: Annual Reports 2000-2020

- (2000) *The Top American Research Universities*  
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- (2003) *The Top American Research Universities*  
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- (2004) *The Top American Research Universities*  
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- (2005) *The Top American Research Universities*  
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- (2006) *The Top American Research Universities*  
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- (2010) *The Top American Research Universities*  
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