

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution   | Rank | Total     |           |           |           | Federally financed |         |         |         |
|---|------|-----------|-----------|-----------|-----------|--------------------|---------|---------|---------|
|   |      | 2020      | 2021      | 2022      | 2023      | 2020               | 2021    | 2022    | 2023    |
| All institutions  | -    | 800,583   | 772,989   | 879,490   | 1,060,700 | 485,550            | 475,732 | 537,338 | 661,446 |
| Johns Hopkins U. <sup>a</sup>                                     | 1    | 105,774 i | 117,429 i | 141,477 i | 230,354 i | 102,890            | 113,772 | 137,115 | 224,276 |
| Pennsylvania State U., University Park and Hershey Medical Center | 2    | 17,706    | 14,090    | 17,140    | 24,625    | 13,702             | 12,668  | 15,402  | 21,148  |
| U. Texas M. D. Anderson Cancer Center                             | 3    | 21,622    | 18,914    | 20,403    | 23,423    | 8,853              | 7,789   | 9,497   | 11,294  |
| U. Michigan, Ann Arbor  | 4    | 18,648    | 17,937    | 20,129    | 21,033    | 5,771              | 5,490   | 6,956   | 7,505   |
| Iowa State U.   | 5    | 17,062    | 16,101    | 19,927    | 19,968    | 10,785             | 9,537   | 12,540  | 11,643  |
| Harvard U.  | 6    | 20,038    | 19,503    | 22,230    | 19,878    | 17,747             | 16,848  | 18,155  | 16,858  |
| New York U.   | 7    | 13,465    | 16,998    | 20,916    | 19,747    | 8,861              | 10,981  | 12,236  | 10,870  |
| U. Texas, Austin  | 8    | 20,290    | 17,349    | 18,319    | 18,889    | 8,882              | 5,691   | 6,055   | 7,001   |
| North Carolina State U.   | 9    | 20,164    | 20,392    | 17,531    | 18,035    | 11,947             | 11,908  | 11,484  | 11,113  |
| Brown U.  | 10   | 12,204    | 10,903    | 14,835    | 16,873    | 9,117              | 8,558   | 10,971  | 12,161  |
| Princeton U.  | 11   | 13,550    | 11,672    | 15,763    | 16,810    | 5,657              | 4,877   | 4,759   | 6,148   |
| Carnegie Mellon U.  | 12   | 12,000    | 12,464    | 14,435    | 16,604    | 3,183              | 3,452   | 5,305   | 6,431   |
| Michigan State U.   | 13   | 12,494    | 11,152    | 11,990    | 13,271    | 5,790              | 5,596   | 6,732   | 8,247   |
| Virginia Polytechnic Institute and State U.                       | 14   | 6,776     | 8,107     | 12,917    | 12,051    | 3,308              | 4,368   | 6,692   | 6,803   |
| U. California, Los Angeles  | 15   | 13,161    | 12,110    | 9,537     | 11,947    | 10,440             | 9,562   | 7,496   | 8,404   |
| Rutgers, State U. New Jersey, New Brunswick                       | 16   | 9,493     | 9,673     | 10,013    | 11,898    | 6,214              | 6,239   | 5,645   | 6,424   |
| U. California, Berkeley   | 17   | 8,263     | 8,067     | 9,474     | 11,060    | 6,251              | 6,122   | 6,868   | 6,502   |
| Dartmouth C. and Dartmouth Hitchcock Medical Center               | 18   | 5,848     | 6,932     | 8,959     | 10,328    | 1,030              | 1,326   | 2,954   | 3,795   |
| Massachusetts Institute of Technology                             | 19   | 10,434    | 9,015     | 9,676     | 10,270    | 5,091              | 5,009   | 4,873   | 5,971   |
| Georgia Institute of Technology                                   | 20   | 8,826     | 8,614     | 8,634     | 9,953     | 4,104              | 3,808   | 3,886   | 4,607   |
| U. Washington, Seattle  | 21   | 7,120     | 5,778     | 7,095     | 9,783     | 6,115              | 5,223   | 5,777   | 8,377   |
| U. Wisconsin-Madison  | 22   | 6,675     | 6,394     | 7,005     | 8,838     | 4,286              | 4,406   | 4,515   | 5,225   |
| U. California, Irvine   | 23   | 7,106     | 6,314     | 7,424     | 8,818     | 4,069              | 3,305   | 3,837   | 4,445   |
| Texas A&M U., College Station and Health Science Center           | 24   | 8,768     | 6,729     | 6,898     | 8,774     | 5,223              | 4,925   | 4,485   | 5,979   |
| U. Pennsylvania   | 25   | 6,817     | 8,637     | 8,921     | 8,603     | 2,744              | 3,206   | 3,991   | 4,584   |
| U. Minnesota, Twin Cities   | 26   | 8,994     | 8,555     | 7,615     | 8,376     | 5,141              | 5,674   | 5,060   | 5,394   |
| Duke U.   | 27   | 9,842     | 8,922     | 9,125     | 8,374     | 6,554              | 6,364   | 6,171   | 5,166   |
| Louisiana State U., Baton Rouge                                   | 28   | 2,701     | 2,077     | 6,720     | 8,112     | 2,241              | 1,656   | 1,691   | 1,883   |
| Florida State U.  | 29   | 7,128     | 6,567     | 7,277     | 8,048     | 2,096              | 1,894   | 2,385   | 2,220   |
| U. Houston  | 30   | 3,596     | 3,497     | 5,858     | 7,605     | 3,015              | 2,743   | 3,377   | 4,265   |
| U. Arizona  | 31   | 3,098     | 3,347     | 4,105     | 7,530     | 2,295              | 2,783   | 3,065   | 3,304   |
| SUNY, Stony Brook U.  | 32   | 7,629     | 7,407     | 6,847     | 7,442     | 5,006              | 4,824   | 4,239   | 4,535   |
| Rice U.   | 33   | 9,363     | 7,349     | 6,937     | 7,338     | 3,742              | 3,934   | 4,359   | 4,143   |
| U. Georgia  | 34   | 6,690     | 5,845     | 5,701     | 6,927     | 1,545              | 1,096   | 837     | 1,335   |

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution  | Rank | Total |       |       |       | Federally financed |       |       |       |
|--|------|-------|-------|-------|-------|--------------------|-------|-------|-------|
|  |      | 2020  | 2021  | 2022  | 2023  | 2020               | 2021  | 2022  | 2023  |
| Stanford U.  | 35   | 7,036 | 6,070 | 6,408 | 6,455 | 6,338              | 5,209 | 5,353 | 5,291 |
| U. Delaware  | 36   | 1,887 | 1,384 | 5,684 | 6,401 | 1,565              | 1,204 | 1,541 | 1,685 |
| U. Maryland <sup>b</sup>                             | 37   | 5,356 | 3,760 | 4,538 | 6,039 | 3,660              | 3,035 | 3,340 | 4,143 |
| U. Chicago   | 38   | 4,726 | 4,653 | 5,395 | 5,931 | 4,078              | 3,972 | 4,573 | 4,564 |
| U. Illinois, Chicago                                 | 39   | 4,109 | 4,021 | 4,213 | 5,823 | 2,407              | 1,989 | 2,206 | 3,130 |
| U. Notre Dame  | 40   | 5,257 | 4,751 | 5,031 | 5,775 | 3,063              | 2,661 | 2,814 | 3,482 |
| U. Nebraska, Lincoln and Medical Center <sup>c</sup> | 41   | na    | na    | na    | 5,687 | na                 | na    | na    | 1,572 |
| Brigham Young U., Provo                              | 42   | 348   | 483   | 769   | 5,651 | 331                | 466   | 654   | 796   |
| New Jersey Institute of Technology                   | 43   | 5,591 | 4,949 | 4,727 | 5,475 | 1,726              | 1,549 | 1,368 | 1,093 |
| U. California, San Diego                             | 44   | 4,857 | 5,639 | 6,383 | 5,471 | 2,456              | 2,995 | 3,774 | 3,043 |
| U. Pittsburgh, Pittsburgh                            | 45   | 4,169 | 2,891 | 4,042 | 5,160 | 2,777              | 1,861 | 2,971 | 3,886 |
| Ohio State U.  | 46   | 5,881 | 4,793 | 5,660 | 5,135 | 3,945              | 3,309 | 2,944 | 3,275 |
| U. Illinois, Urbana-Champaign                        | 47   | 5,346 | 3,612 | 3,729 | 5,040 | 2,719              | 2,092 | 2,586 | 3,184 |
| Boston U.  | 48   | 5,199 | 5,039 | 4,935 | 5,008 | 2,947              | 3,218 | 2,891 | 2,753 |
| U. North Carolina, Chapel Hill                       | 49   | 6,729 | 5,489 | 5,464 | 4,894 | 5,390              | 4,735 | 4,421 | 2,975 |
| U. California, Davis                                 | 50   | 4,455 | 4,698 | 4,392 | 4,722 | 3,471              | 3,678 | 4,058 | 4,285 |
| Oklahoma State U., Stillwater                        | 51   | 4,213 | 4,276 | 4,176 | 4,680 | 569                | 472   | 512   | 751   |
| Tufts U.   | 52   | 3,409 | 7,181 | 6,353 | 4,607 | 2,852              | 6,640 | 6,031 | 4,331 |
| Texas Tech U.  | 53   | 3,402 | 3,678 | 3,793 | 4,501 | 239                | 210   | 506   | 996   |
| U. South Carolina, Columbia                          | 54   | 2,113 | 1,558 | 4,101 | 4,385 | 1,185              | 1,267 | 1,430 | 1,418 |
| Columbia U. in the City of New York                  | 55   | 4,118 | 2,951 | 4,427 | 4,294 | 3,054              | 2,190 | 2,190 | 2,650 |
| Auburn U., Auburn                                    | 56   | 3,736 | 3,471 | 3,875 | 4,229 | 332                | 395   | 516   | 729   |
| San Diego State U.                                   | 57   | 3,899 | 3,883 | 3,993 | 4,198 | 907                | 1,157 | 1,709 | 1,527 |
| Cornell U.   | 58   | 3,323 | 2,467 | 3,287 | 4,173 | 2,519              | 2,047 | 2,663 | 2,852 |
| U. Colorado Boulder                                  | 59   | 2,659 | 2,857 | 3,616 | 4,116 | 2,555              | 2,601 | 3,145 | 3,900 |
| Yale U.  | 60   | 4,703 | 3,589 | 3,632 | 3,906 | 2,556              | 1,871 | 2,242 | 1,990 |
| U. Texas Rio Grande Valley                           | 61   | 2,174 | 2,194 | 2,731 | 3,845 | 196                | 345   | 714   | 1,279 |
| Rensselaer Polytechnic Institute                     | 62   | 2,808 | 2,944 | 3,658 | 3,783 | 1,480              | 991   | 812   | 1,244 |
| U. Utah  | 63   | 4,065 | 3,708 | 6,083 | 3,727 | 2,452              | 2,200 | 5,830 | 3,127 |
| Florida International U.                             | 64   | 1,470 | 1,915 | 2,201 | 3,628 | 138                | 520   | 461   | 633   |
| Texas State U.                                       | 65   | 1,038 | 1,057 | 1,343 | 3,465 | 799                | 875   | 1,148 | 1,514 |
| U. Tennessee, Knoxville                              | 66   | 3,181 | 2,938 | 3,044 | 3,447 | 642                | 599   | 856   | 1,021 |
| Worcester Polytechnic Institute                      | 67   | 1,404 | 1,880 | 3,090 | 3,402 | 799                | 1,375 | 1,987 | 1,947 |
| U. Massachusetts, Amherst                            | 68   | 3,361 | 3,218 | 3,351 | 3,383 | 2,093              | 2,290 | 2,326 | 2,171 |
| Kansas State U.                                      | 69   | 3,246 | 2,708 | 2,956 | 3,353 | 230                | 158   | 241   | 527   |

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution                                      | Rank | Total |       |       |       | Federally financed |       |       |       |
|--|------|-------|-------|-------|-------|--------------------|-------|-------|-------|
|  |      | 2020  | 2021  | 2022  | 2023  | 2020               | 2021  | 2022  | 2023  |
| U. Texas, Arlington                              | 70   | 2,053 | 2,350 | 2,443 | 3,317 | 748                | 863   | 847   | 1,357 |
| Colorado State U., Fort Collins                  | 71   | 4,190 | 2,980 | 3,006 | 3,310 | 3,768              | 2,573 | 2,505 | 2,749 |
| U. Louisiana, Lafayette                          | 72   | 2,117 | 3,119 | 2,939 | 3,236 | 91                 | 235   | 158   | 174   |
| SUNY, Binghamton U.                              | 73   | 2,830 | 3,133 | 3,211 | 3,122 | 85                 | 85    | 77    | 191   |
| Purdue U., West Lafayette                        | 74   | 2,671 | 2,742 | 2,727 | 3,115 | 1,609              | 1,513 | 1,407 | 1,524 |
| Indiana U., Bloomington                          | 75   | 1,780 | 1,678 | 2,329 | 3,010 | 1,299              | 1,260 | 1,761 | 2,014 |
| California Polytechnic State U., San Luis Obispo | 76   | 2,841 | 2,668 | 2,826 | 2,996 | 2,430              | 2,147 | 2,275 | 2,359 |
| U. Central Florida                               | 77   | 3,197 | 3,269 | 3,609 | 2,971 | 780                | 603   | 673   | 868   |
| U. Connecticut                                   | 78   | 2,344 | 2,119 | 2,616 | 2,934 | 1,361              | 1,268 | 1,710 | 1,823 |
| U. Florida                                       | 79   | 1,726 | 1,757 | 2,303 | 2,928 | 985                | 1,013 | 1,435 | 1,925 |
| U. Alabama, Tuscaloosa                           | 80   | 262   | 1,174 | 2,367 | 2,918 | 226                | 243   | 402   | 453   |
| U. South Florida <sup>d</sup>                    | 81   | 3,165 | 3,055 | 3,192 | 2,902 | 948                | 709   | 814   | 849   |
| SUNY, U. Buffalo                                 | 82   | 1,067 | 1,730 | 1,926 | 2,886 | 597                | 653   | 780   | 885   |
| Syracuse U.                                      | 83   | 2,528 | 2,572 | 2,279 | 2,855 | 300                | 457   | 208   | 353   |
| Georgetown U.                                    | 84   | 1,765 | 2,606 | 2,463 | 2,853 | 0                  | 180   | 0     | 99    |
| Montana State U., Bozeman                        | 85   | 2,536 | 2,527 | 2,852 | 2,828 | 1,281              | 1,403 | 1,493 | 1,477 |
| Arizona State U.                                 | 86   | 5,942 | 4,121 | 3,418 | 2,786 | 2,728              | 2,396 | 1,525 | 1,607 |
| U. North Carolina, Charlotte                     | 87   | 1,029 | 782   | 803   | 2,704 | 820                | 673   | 676   | 1,221 |
| U. California, Riverside                         | 88   | 1,682 | 1,994 | 2,207 | 2,694 | 1,120              | 1,520 | 1,727 | 1,795 |
| George Mason U.                                  | 89   | 1,941 | 2,493 | 3,606 | 2,657 | 1,008              | 1,529 | 2,458 | 1,523 |
| U. Oklahoma, Norman and Health Science Center    | 90   | 2,018 | 2,274 | 2,495 | 2,621 | 361                | 402   | 429   | 546   |
| U. Nevada, Las Vegas                             | 91   | 2,347 | 2,624 | 2,224 | 2,558 | 15                 | 48    | 37    | 261   |
| U. Texas, El Paso                                | 92   | 2,927 | 2,412 | 2,413 | 2,552 | 1,270              | 827   | 943   | 1,117 |
| Rochester Institute of Technology                | 93   | 2,040 | 2,178 | 2,356 | 2,542 | 1,503              | 1,605 | 1,886 | 1,850 |
| SUNY, U. Albany                                  | 94   | 1,774 | 1,400 | 2,264 | 2,531 | 196                | 344   | 212   | 328   |
| Georgia State U.                                 | 95   | 1,973 | 2,091 | 2,033 | 2,428 | 1,148              | 1,009 | 745   | 932   |
| Naval Postgraduate School                        | 96   | 2,824 | 2,435 | 2,859 | 2,375 | 1,867              | 1,941 | 2,069 | 1,981 |
| U. Maryland, Baltimore County                    | 97   | 729   | 428   | 1,893 | 2,353 | 368                | 228   | 266   | 325   |
| Vanderbilt U. and Vanderbilt U. Medical Center   | 98   | 1,689 | 1,317 | 1,421 | 2,323 | 902                | 621   | 793   | 693   |
| U. Vermont                                       | 99   | 2,154 | 3,153 | 3,132 | 2,319 | 247                | 322   | 473   | 214   |
| Northwestern U.                                  | 100  | 2,275 | 1,490 | 2,215 | 2,311 | 1,580              | 1,005 | 1,290 | 1,310 |
| U. Virginia, Charlottesville                     | 101  | 1,593 | 1,710 | 2,552 | 2,301 | 1,125              | 1,320 | 1,871 | 1,576 |
| U. Massachusetts, Dartmouth                      | 102  | 717   | 1,497 | 1,417 | 2,210 | 239                | 380   | 480   | 975   |
| Brandeis U.                                      | 103  | 2,042 | 1,885 | 2,092 | 2,203 | 401                | 513   | 282   | 540   |
| Southern Methodist U.                            | 104  | 1,291 | 1,736 | 2,009 | 2,199 | 961                | 1,199 | 1,351 | 1,339 |

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution                     | Rank | Total |       |       |       | Federally financed |       |       |       |
|---------------------------------|------|-------|-------|-------|-------|--------------------|-------|-------|-------|
|                                 |      | 2020  | 2021  | 2022  | 2023  | 2020               | 2021  | 2022  | 2023  |
| Clemson U.                      | 105  | 2,607 | 1,870 | 1,919 | 2,131 | 1,548              | 1,384 | 1,314 | 1,457 |
| U. San Diego                    | 106  | 225   | 643   | 1,524 | 2,125 | 141                | 481   | 1,294 | 1,886 |
| Michigan Technological U.       | 107  | 2,260 | 1,942 | 1,720 | 2,076 | 359                | 226   | 146   | 192   |
| U.S. Military Academy           | 108  | 0     | 1,259 | 1,074 | 2,073 | 0                  | 456   | 1,016 | 2,059 |
| U. Southern California          | 109  | 1,617 | 1,472 | 1,392 | 2,031 | 1,264              | 1,227 | 1,208 | 1,748 |
| Mississippi State U.            | 110  | 1,959 | 1,880 | 1,721 | 1,979 | 172                | 238   | 131   | 117   |
| U. North Texas, Denton          | 111  | 1,676 | 237   | 0     | 1,879 | 202                | 205   | 0     | 533   |
| Emory U.                        | 112  | 2,357 | 1,693 | 1,385 | 1,840 | 1,926              | 1,540 | 1,237 | 1,542 |
| U. Oregon                       | 113  | 906   | 694   | 1,249 | 1,828 | 853                | 641   | 1,185 | 1,441 |
| U. Wyoming                      | 114  | 1,276 | 1,306 | 1,661 | 1,816 | 1,155              | 1,258 | 536   | 767   |
| U. Texas, San Antonio           | 115  | 1,529 | 1,554 | 2,075 | 1,782 | 115                | 116   | 392   | 316   |
| U. California, Santa Barbara    | 116  | 1,416 | 1,416 | 1,335 | 1,759 | 944                | 852   | 1,140 | 1,376 |
| U. New Hampshire                | 117  | 404   | 1,239 | 1,481 | 1,738 | 339                | 352   | 423   | 581   |
| George Washington U.            | 118  | 926   | 725   | 781   | 1,737 | 631                | 555   | 499   | 315   |
| U. Cincinnati                   | 119  | 1,422 | 1,320 | 1,549 | 1,732 | 665                | 620   | 623   | 849   |
| U. Miami                        | 120  | 1,420 | 843   | 1,257 | 1,693 | 301                | 356   | 463   | 368   |
| Montclair State U.              | 121  | 726   | 785   | 1,388 | 1,684 | 327                | 317   | 330   | 456   |
| U. California, Merced           | 122  | 3,047 | 2,139 | 1,863 | 1,650 | 2,472              | 1,466 | 1,313 | 793   |
| U. Texas, Dallas                | 123  | 1,155 | 1,363 | 1,429 | 1,616 | 668                | 930   | 819   | 962   |
| U. Colorado Denver <sup>e</sup> | 124  | na    | 1,122 | 989   | 1,613 | na                 | 1,119 | 988   | 1,533 |
| Baylor U.                       | 125  | 933   | 877   | 1,451 | 1,604 | 284                | 408   | 622   | 643   |
| Kent State U.                   | 126  | 1,309 | 1,385 | 1,824 | 1,591 | 300                | 212   | 215   | 135   |
| U. Missouri, Columbia           | 127  | 1,279 | 1,377 | 1,666 | 1,583 | 1,017              | 952   | 1,098 | 1,100 |
| CUNY, Graduate Center           | 128  | 23    | 332   | 88    | 1,564 | 23                 | 332   | 88    | 6     |
| Georgia Southern U.             | 129  | 67    | 1,405 | 1,344 | 1,542 | 30                 | 67    | 48    | 86    |
| Yeshiva U.                      | 129  | 0     | 0     | 1,016 | 1,542 | 0                  | 0     | 0     | 0     |
| San Jose State U.               | 131  | 0     | 751   | 1,157 | 1,522 | 0                  | 276   | 313   | 279   |
| Portland State U.               | 132  | 1,115 | 947   | 1,192 | 1,505 | 794                | 942   | 1,191 | 1,477 |
| American U.                     | 133  | 1,559 | 1,538 | 1,615 | 1,501 | 370                | 563   | 663   | 514   |
| U. Kentucky                     | 134  | 1,336 | 1,512 | 1,582 | 1,448 | 1,088              | 1,180 | 1,139 | 1,181 |
| Northeastern U.                 | 135  | 878   | 1,210 | 1,107 | 1,443 | 685                | 721   | 587   | 921   |
| U. Massachusetts, Lowell        | 136  | 663   | 754   | 767   | 1,434 | 0                  | 60    | 78    | 281   |
| U. Nevada, Reno                 | 137  | 2,341 | 1,777 | 1,640 | 1,408 | 805                | 468   | 264   | 109   |
| Rockefeller U.                  | 138  | 1,612 | 1,433 | 1,405 | 1,396 | 306                | 111   | 159   | 86    |
| Boston C.                       | 139  | 1,289 | 1,079 | 951   | 1,377 | 1,064              | 908   | 911   | 1,121 |

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution   | Rank | Total |         |       |       | Federally financed |       |       |       |
|---|------|-------|---------|-------|-------|--------------------|-------|-------|-------|
|   |      | 2020  | 2021    | 2022  | 2023  | 2020               | 2021  | 2022  | 2023  |
| Oregon State U.   | 140  | 1,595 | 1,247   | 1,601 | 1,358 | 1,108              | 712   | 1,015 | 813   |
| California State U., Bakersfield                              | 141  | 3,173 | 2,321   | 1,457 | 1,353 | 2,451              | 1,827 | 1,140 | 969   |
| Washington U., Saint Louis                                    | 142  | 959   | 840     | 1,584 | 1,309 | 902                | 821   | 1,484 | 1,118 |
| Western Michigan U. and Homer Stryker M.D. School of Medicine | 143  | 40    | 21      | 75    | 1,191 | 9                  | 9     | 9     | 10    |
| San Francisco State U.  | 144  | 1,227 | i 1,326 | 1,288 | 1,155 | 253                | i 256 | 205   | 259   |
| North Carolina A&T State U.                                   | 145  | 818   | 797     | 863   | 1,149 | 748                | 763   | 836   | 1,061 |
| Florida Atlantic U.   | 146  | 1,268 | 1,026   | 1,403 | 1,112 | 519                | 643   | 704   | 558   |
| Spelman C.  | 146  | 48    | 96      | 668   | 1,112 | 48                 | 96    | 668   | 1,112 |
| U. Iowa   | 148  | 624   | 406     | 690   | 1,074 | 340                | 273   | 483   | 706   |
| U.S. Naval Academy  | 149  | 1,013 | 993     | 1,216 | 1,044 | 799                | 847   | 1,115 | 1,016 |
| Old Dominion U.   | 150  | 1,239 | 1,097   | 857   | 1,043 | 952                | 865   | 643   | 759   |
| U. Mississippi  | 151  | 216   | 358     | 500   | 1,042 | 47                 | 201   | 268   | 169   |
| U. New Mexico   | 152  | 1,422 | 1,229   | 801   | 1,012 | 1,337              | 1,197 | 759   | 884   |
| Utah State U.   | 153  | 846   | 720     | 943   | 1,009 | 268                | 174   | 232   | 340   |
| Temple U.   | 154  | 3,213 | 2,547   | 3,063 | 1,004 | 923                | 667   | 894   | 739   |
| U. Montana, Missoula  | 155  | 1,187 | 878     | 983   | 1,003 | 734                | 405   | 524   | 473   |
| Amherst C.  | 156  | 340   | 316     | i 422 | 994   | 225                | 187   | 305   | 815   |
| Tulane U.   | 157  | 581   | 518     | 1,083 | 977   | 441                | 381   | 522   | 456   |
| North Dakota State U.   | 158  | 1,120 | 1,501   | 1,357 | 970   | 150                | 84    | 3     | 14    |
| Colorado School of Mines                                      | 159  | 583   | 682     | 1,012 | 969   | 571                | 645   | 905   | 748   |
| Louisiana Tech U.   | 159  | 771   | 999     | 914   | 969   | 238                | 314   | 326   | 301   |
| Marquette U.  | 161  | 1,734 | 1,110   | 892   | 921   | 1,217              | 684   | 421   | 411   |
| California State U., Fresno                                   | 162  | 412   | 490     | 1,626 | 909   | 287                | 444   | 1,158 | 514   |
| Cleveland State U.  | 163  | 784   | 642     | 521   | 901   | 232                | 183   | 48    | 139   |
| Towson U.   | 164  | 179   | 191     | 269   | 899   | 50                 | 94    | 84    | 231   |
| U. Arkansas, Fayetteville                                     | 165  | 97    | 60      | 59    | 896   | 71                 | 34    | 29    | 80    |
| California State U., Fullerton                                | 166  | 11    | 212     | 1,234 | 887   | 0                  | 127   | 775   | 157   |
| Kennesaw State U.   | 167  | 107   | 287     | 1,114 | 876   | 4                  | 57    | 624   | 675   |
| Clark Atlanta U.  | 168  | 194   | 286     | 323   | 845   | 157                | 265   | 321   | 827   |
| Virginia Commonwealth U.                                      | 169  | 793   | 698     | 930   | 839   | 609                | 529   | 717   | 574   |
| Clarkson U.   | 170  | 780   | 868     | 784   | 830   | 571                | 524   | 230   | 261   |
| U. Massachusetts, Boston                                      | 171  | 449   | 486     | 541   | 820   | 14                 | 70    | 40    | 284   |
| U. Idaho  | 172  | 205   | 194     | 128   | 812   | 120                | 142   | 65    | 46    |
| Delaware State U.   | 173  | 3     | i 3     | 652   | 803   | 3                  | i 3   | 241   | 803   |
| Rowan U.  | 174  | 0     | 225     | 397   | 795   | 0                  | 202   | 286   | 464   |

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution                          | Rank | Total |       |       |      | Federally financed |       |       |      |
|--------------------------------------|------|-------|-------|-------|------|--------------------|-------|-------|------|
|                                      |      | 2020  | 2021  | 2022  | 2023 | 2020               | 2021  | 2022  | 2023 |
| California Institute of Technology   | 175  | 1,387 | 1,039 | 1,063 | 794  | 755                | 605   | 683   | 489  |
| U. Alabama, Huntsville               | 176  | 726   | 709   | 655   | 775  | 2                  | 15    | 28    | 42   |
| Wichita State U.                     | 177  | 105   | 419   | 127   | 758  | 72                 | 139   | 87    | 133  |
| U. Kansas                            | 178  | 672   | 543   | 682   | 751  | 649                | 508   | 621   | 575  |
| Sonoma State U.                      | 179  | 141   | 235   | 511   | 724  | 91                 | 226   | 506   | 719  |
| U. Maine                             | 180  | 845   | 657   | 660   | 718  | 65                 | 18    | 26    | 52   |
| Wayne State U.                       | 181  | 1,716 | 1,093 | 208   | 717  | 1,184              | 499   | 208   | 490  |
| Wake Forest U.                       | 182  | 529   | 161   | 381   | 716  | 134                | 70    | 85    | 292  |
| Case Western Reserve U.              | 183  | 355   | 697   | 520   | 709  | 325                | 458   | 505   | 632  |
| South Dakota State U.                | 184  | 401   | 433   | 657   | 691  | 262                | 302   | 593   | 582  |
| CUNY, Baruch C.                      | 185  | 325   | 211   | 533   | 682  | 321                | 203   | 486   | 582  |
| Embry-Riddle Aeronautical U.         | 186  | 84    | 110   | 111   | 681  | 23                 | 62    | 106   | 609  |
| U. of the Virgin Islands             | 187  | 694   | 439   | 679   | 679  | 694                | 439   | 679   | 679  |
| Wesleyan U.                          | 188  | 533   | 402   | 506   | 659  | 390                | 327   | 281   | 411  |
| U. Nebraska, Omaha                   | 189  | 200   | 468   | 459   | 652  | 162                | 366   | 375   | 513  |
| Boise State U.                       | 190  | 1,137 | 1,475 | 1,550 | 646  | 904                | 1,203 | 1,271 | 513  |
| Wellesley C.                         | 191  | 255   | 263   | 179   | 644  | 240                | 262   | 169   | 292  |
| U. New Orleans                       | 192  | 389   | 482   | 603   | 642  | 0                  | 131   | 195   | 290  |
| Miami U.                             | 193  | 310   | 427   | 346   | 636  | 139                | 269   | 186   | 70   |
| Drexel U.                            | 194  | 546   | 620   | 729   | 617  | 452                | 550   | 630   | 467  |
| Tuskegee U.                          | 195  | 1,240 | 1,146 | 888   | 616  | 1,240              | 1,146 | 888   | 616  |
| U. Tennessee, Chattanooga            | 196  | 189   | 206   | 365   | 608  | 81                 | 147   | 295   | 360  |
| U. California, Santa Cruz            | 197  | 236   | 156   | 348   | 605  | 161                | 139   | 294   | 203  |
| Indiana U.-Purdue U., Indianapolis   | 198  | 601   | 404   | 177   | 601  | 460                | 365   | 142   | 459  |
| U. Hawaii, Manoa                     | 199  | 515   | 439   | 409   | 593  | 457                | 410   | 366   | 483  |
| U. South Alabama                     | 200  | 80    | 163   | 267   | 584  | 79                 | 162   | 231   | 494  |
| Bryn Mawr C.                         | 201  | 561   | 599   | 545   | 541  | 114                | 121   | 53    | 72   |
| California State U., Channel Islands | 202  | 181   | 348   | 568   | 536  | 171                | 268   | 460   | 377  |
| Western Washington U.                | 202  | 347   | 375   | 332   | 536  | 217                | 227   | 217   | 342  |
| California State U., Long Beach      | 204  | 691   | 446   | 369   | 534  | 673                | 446   | 349   | 265  |
| U. Louisville                        | 205  | 494   | 697   | 661   | 519  | 84                 | 311   | 268   | 111  |
| U. Memphis                           | 206  | 1,241 | 1,250 | 1,138 | 510  | 493                | 240   | 243   | 375  |
| Hampton U.                           | 207  | 226   | 344   | 163   | 490  | 226                | 344   | 163   | 490  |
| Lehigh U.                            | 208  | 228   | 140   | 289   | 489  | 194                | 127   | 247   | 443  |
| Texas Christian U.                   | 209  | 2     | 0     | 189   | 483  | 2                  | 0     | 0     | 42   |

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution                           | Rank | Total |       |       |      | Federally financed |      |      |      |
|---------------------------------------|------|-------|-------|-------|------|--------------------|------|------|------|
|                                       |      | 2020  | 2021  | 2022  | 2023 | 2020               | 2021 | 2022 | 2023 |
| California State U., Northridge       | 210  | 980   | 685   | 435   | 480  | 901                | 628  | 320  | 371  |
| U. North Carolina, Greensboro         | 211  | 215   | 308   | 609   | 470  | 167                | 213  | 392  | 417  |
| Stevens Institute of Technology       | 212  | 37    | 56    | 355   | 464  | 0                  | 42   | 333  | 410  |
| California State U., San Bernardino   | 213  | 633   | 466   | 311   | 462  | 427                | 184  | 283  | 188  |
| Purdue U., Fort Wayne                 | 214  | 69    | 8     | 229   | 458  | 19                 | 5    | 0    | 29   |
| Sam Houston State U.                  | 215  | 338   | 444   | 413   | 455  | 319                | 417  | 356  | 455  |
| Smith C.                              | 215  | 182   | 120   | 296   | 455  | 121                | 111  | 244  | 342  |
| West Virginia U.                      | 217  | 482   | 579   | 432   | 448  | 369                | 374  | 227  | 208  |
| U. North Dakota                       | 218  | 434   | 372   | 348   | 444  | 0                  | 0    | 0    | 0    |
| Pomona C.                             | 219  | 129   | 162   | 301   | 433  | 82                 | 135  | 287  | 362  |
| U. Michigan, Dearborn                 | 220  | 155   | 190   | 163   | 416  | 110                | 149  | 130  | 304  |
| Illinois Institute of Technology      | 221  | 405   | 381   | 429   | 412  | 389                | 312  | 379  | 391  |
| Harvey Mudd C.                        | 222  | 174   | 111   | 378   | 405  | 113                | 33   | 168  | 251  |
| Fordham U.                            | 223  | 173   | 140   | 212   | 396  | 66                 | 70   | 34   | 10   |
| U. Rochester                          | 223  | 201   | 214   | 175   | 396  | 185                | 210  | 174  | 292  |
| Washington State U.                   | 225  | 447   | 535   | 509   | 383  | 289                | 356  | 328  | 164  |
| Stephen F. Austin State U.            | 226  | 129   | 109   | 241   | 382  | 128                | 93   | 208  | 337  |
| William & Mary                        | 226  | 438   | 371   | 395   | 382  | 242                | 329  | 302  | 275  |
| CUNY, Queens C.                       | 228  | 228   | 251   | 278   | 380  | 160                | 221  | 172  | 189  |
| Air Force Institute of Technology     | 229  | 658   | 828   | 164   | 375  | 497                | 197  | 149  | 352  |
| U. Northern Colorado                  | 230  | 181   | 135   | 83    | 371  | 117                | 91   | 31   | 66   |
| Howard U.                             | 231  | 230   | 198   | 215   | 369  | 0                  | 0    | 0    | 253  |
| Hofstra U.                            | 232  | 4     | 85    | 286   | 368  | 0                  | 0    | 188  | 216  |
| CUNY, City C.                         | 233  | 389   | 158   | 220   | 358  | 313                | 125  | 115  | 236  |
| CUNY, York C.                         | 234  | 0     | 12    | 109   | 356  | 0                  | 0    | 103  | 351  |
| Morgan State U.                       | 234  | 134   | 146   | 192   | 356  | 105                | 129  | 185  | 344  |
| CUNY, John Jay C. of Criminal Justice | 236  | 5     | 12    | 106   | 342  | 5                  | 12   | 98   | 335  |
| U. Alaska, Fairbanks                  | 237  | 346   | 191   | 181   | 338  | 321                | 165  | 168  | 336  |
| Middle Tennessee State U.             | 238  | 39    | 1,187 | 1,243 | 314  | 0                  | 316  | 357  | 221  |
| Creighton U.                          | 239  | 204   | 239   | 298   | 309  | 108                | 129  | 181  | 191  |
| James Madison U.                      | 240  | 159   | 345   | 335   | 301  | 104                | 15   | 71   | 81   |
| Grinnell C.                           | 241  | 407   | 108   | 86    | 299  | 72                 | 63   | 21   | 0    |
| Davidson C.                           | 242  | 142   | 79    | 86    | 298  | 61                 | 6    | 0    | 0    |
| California State U., Stanislaus       | 243  | 194   | 253   | 218   | 281  | 194                | 253  | 218  | 271  |
| Swarthmore C.                         | 244  | 103   | 136   | 174   | 273  | 63                 | 79   | 132  | 206  |

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution                           | Rank | Total |      |      |      | Federally financed |      |      |      |
|---------------------------------------|------|-------|------|------|------|--------------------|------|------|------|
|                                       |      | 2020  | 2021 | 2022 | 2023 | 2020               | 2021 | 2022 | 2023 |
| Eastern Michigan U.                   | 245  | 216   | 174  | 55   | 272  | 37                 | 78   | 33   | 131  |
| Nova Southeastern U.                  | 246  | 0     | 0    | 20   | 268  | 0                  | 0    | 0    | 0    |
| CUNY, Hunter C.                       | 247  | 174   | 217  | 200  | 262  | 114                | 183  | 166  | 198  |
| Carleton C.                           | 248  | 196   | 173  | 372  | 260  | 41                 | 17   | 54   | 79   |
| Manhattan C.                          | 248  | 147   | 239  | 242  | 260  | 147                | 217  | 242  | 260  |
| Illinois State U.                     | 250  | 229   | 215  | 198  | 255  | 119                | 119  | 145  | 197  |
| Claremont Graduate U.                 | 251  | 70    | 111  | 74   | 253  | 70                 | 111  | 74   | 253  |
| Ferris State U.                       | 252  | ne    | ne   | ne   | 252  | ne                 | ne   | ne   | 252  |
| U. Minnesota, Duluth                  | 253  | 152   | 274  | 184  | 248  | 108                | 210  | 104  | 92   |
| CUNY, Brooklyn C.                     | 254  | 221   | 68   | 107  | 242  | 220                | 65   | 0    | 71   |
| New Mexico Highlands U.               | 254  | 0     | 130  | 186  | 242  | 0                  | 130  | 186  | 242  |
| Mercer U.                             | 256  | 224   | 219  | 221  | 238  | 0                  | 0    | 0    | 0    |
| U. South Dakota                       | 257  | 160   | 189  | 117  | 236  | 0                  | 0    | 0    | 0    |
| Missouri U. of Science and Technology | 258  | 222   | 252  | 221  | 230  | 218                | 250  | 173  | 193  |
| U. of the District of Columbia        | 259  | 277   | 447  | 502  | 227  | 277                | 447  | 502  | 227  |
| Long Island U.                        | 260  | 457   | 372  | 414  | 226  | 0                  | 0    | 0    | 0    |
| Trinity C., Hartford                  | 260  | 68    | 64   | 31   | 226  | 52                 | 54   | 18   | 0    |
| Saint Louis U.                        | 262  | 280   | 190  | 192  | 222  | 266                | 170  | 165  | 199  |
| CUNY, New York City C. of Technology  | 263  | 409   | 50   | 239  | 220  | 0                  | 0    | 183  | 151  |
| Pepperdine U.                         | 264  | 32    | 26   | 29   | 217  | 0                  | 0    | 0    | 0    |
| Texas A&M U.-Commerce                 | 265  | 26    | 34   | 9    | 213  | 0                  | 0    | 0    | 108  |
| Tarleton State U.                     | 266  | 450   | 342  | 376  | 211  | 2                  | 0    | 0    | 0    |
| Florida Institute of Technology       | 267  | 188   | 286  | 298  | 210  | 71                 | 132  | 208  | 120  |
| Central Washington U.                 | 268  | 104   | 169  | 196  | 209  | 52                 | 149  | 157  | 178  |
| California State U., Monterey Bay     | 269  | 234   | 12   | 175  | 204  | 148                | 12   | 154  | 190  |
| Catholic U. of America                | 270  | 0     | 53   | 0    | 202  | 0                  | 53   | 0    | 202  |
| U. Wisconsin-Milwaukee                | 271  | 4,792 | 707  | 25   | 198  | 3,820              | 0    | 0    | 132  |
| SUNY, Buffalo State U.                | 272  | 91    | 112  | 139  | 192  | 91                 | 112  | 139  | 192  |
| Mount Holyoke C.                      | 273  | 147   | 62   | 159  | 191  | 147                | 57   | 146  | 173  |
| Benedict C.                           | 274  | 44    | ne   | ne   | 187  | 44                 | ne   | ne   | 187  |
| Kean U.                               | 274  | 0     | 0    | 80   | 187  | 0                  | 0    | 0    | 0    |
| Vassar C.                             | 276  | 357   | 307  | 95   | 185  | 350                | 301  | 80   | 157  |
| U. Washington, Tacoma                 | 277  | 47    | 25   | 137  | 182  | 47                 | 25   | 137  | 182  |
| CUNY, Lehman C.                       | 278  | 271   | 343  | 214  | 181  | 259                | 328  | 213  | 167  |
| California State U., East Bay         | 279  | 896   | 364  | 377  | 180  | 0                  | 58   | 10   | 0    |



TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution                                   | Rank | Total |       |       |       | Federally financed |       |      |      |
|---|------|-------|-------|-------|-------|--------------------|-------|------|------|
|   |      | 2020  | 2021  | 2022  | 2023  | 2020               | 2021  | 2022 | 2023 |
| Claremont McKenna C.                          | 280  | 85    | 103   | 163   | 178   | 78                 | 103   | 79   | 138  |
| Norwich U.                                    | 280  | ne    | ne    | ne    | 178   | ne                 | ne    | ne   | 170  |
| New Mexico State U.                           | 282  | 188   | 116   | 164   | 170   | 151                | 77    | 138  | 111  |
| U. Alabama, Birmingham                        | 283  | 916   | 383   | 263   | 169   | 875                | 362   | 257  | 169  |
| DePaul U.                                     | 284  | 0     | 2     | 154   | 168   | 0                  | 0     | 92   | 136  |
| Murray State U.                               | 285  | 198   | 309   | 354   | 166   | 198                | 306   | 351  | 164  |
| Sacred Heart U.                               | 285  | ne    | 0     | ne    | 166   | ne                 | 0     | ne   | 70   |
| Texas Woman's U.                              | 285  | 23    | 1     | 125   | 166   | 0                  | 0     | 0    | 0    |
| Bucknell U.                                   | 288  | 113 i | 110   | 169   | 164   | 106 i              | 104   | 148  | 135  |
| Bowling Green State U.                        | 289  | 532   | 160   | 348   | 163   | 140                | 82    | 52   | 39   |
| Villanova U.                                  | 289  | 60    | 116   | 119   | 163   | 2                  | 28    | 64   | 107  |
| U. Guam                                       | 291  | 0     | 87    | 63    | 160   | 0                  | 81    | 57   | 155  |
| Christopher Newport U.                        | 292  | 7     | 180   | 225   | 159   | 0                  | 172   | 222  | 154  |
| Utah Valley U.                                | 292  | ne    | ne    | 82    | 159   | ne                 | ne    | 82   | 159  |
| New Mexico Institute of Mining and Technology | 294  | 53    | 3     | 77    | 157   | 50                 | 0     | 54   | 151  |
| U. Puerto Rico, Rio Piedras                   | 294  | 145   | 178   | 234   | 157   | 102                | 120   | 124  | 124  |
| Northern Kentucky U.                          | 296  | 81    | 65    | 73    | 155   | 71                 | 59    | 72   | 97   |
| Reed C.                                       | 296  | 223   | 229 i | 136 i | 155 i | 151                | 160 i | 83 i | 94 i |
| Texas A&M International U.                    | 298  | 1     | 91    | 101   | 152   | 0                  | 64    | 74   | 150  |
| U. San Francisco                              | 299  | 25    | 16    | 13    | 145   | 16                 | 15    | 12   | 0    |
| Colorado C.                                   | 300  | 23    | 18    | 44    | 142   | 0                  | 0     | 44   | 128  |
| Alabama State U.                              | 301  | 0     | 0     | 0     | 141   | 0                  | 0     | 0    | 0    |
| Augusta U.                                    | 302  | 13    | 44    | 110   | 136   | 13                 | 44    | 81   | 94   |
| U. Missouri, Saint Louis                      | 303  | 265   | 407   | 174   | 135   | 235                | 371   | 161  | 120  |
| Salisbury U.                                  | 304  | 113   | 123   | 123   | 133   | 0                  | 0     | 0    | 0    |
| Southern Illinois U., Carbondale              | 304  | 278   | 14    | 9     | 133   | 0                  | 5     | 4    | 24   |
| Youngstown State U.                           | 304  | 6     | 3     | 74    | 133   | 1                  | 0     | 66   | 98   |
| West Chester U. Pennsylvania                  | 307  | 196   | 103   | 82    | 132   | 60                 | 0     | 0    | 0    |
| Jackson State U.                              | 308  | 97    | 44    | 26    | 128   | 84                 | 39    | 21   | 91   |
| Colby C.                                      | 309  | 30    | 3     | 36    | 127   | 10                 | 0     | 28   | 88   |
| Lawrence Technological U.                     | 309  | 0     | 9     | 21    | 127   | 0                  | 9     | 21   | 127  |
| Oregon Institute of Technology                | 311  | 77 i  | 84 i  | 100 i | 126 i | 0                  | 9 i   | 12 i | 49 i |
| Texas A&M U.-Corpus Christi                   | 311  | 21    | 6     | 19    | 126   | 0                  | 0     | 0    | 78   |
| Texas Southern U.                             | 313  | 187   | 167   | 96    | 125   | 187                | 167   | 94   | 120  |
| C. Wooster                                    | 314  | 104   | 70 i  | 93    | 123   | 55                 | 47 i  | 68   | 56   |

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution                                 | Rank | Total |       |       |       | Federally financed |       |      |       |
|---|------|-------|-------|-------|-------|--------------------|-------|------|-------|
|   |      | 2020  | 2021  | 2022  | 2023  | 2020               | 2021  | 2022 | 2023  |
| Norfolk State U.                            | 314  | 48    | 29    | 35    | 123   | 48                 | 29    | 35   | 123   |
| Occidental C.                               | 316  | 58    | 97    | 108   | i 122 | 58                 | 97    | 108  | i 122 |
| Ursinus C.                                  | 317  | ne    | ne    | ne    | 120   | ne                 | ne    | ne   | 120   |
| Williams C.                                 | 318  | 401   | i 411 | i 105 | i 119 | i 227              | i 241 | i 47 | i 53  |
| Alabama A&M U.                              | 319  | 83    | i 70  | i 78  | i 118 | i 56               | i 61  | i 76 | i 101 |
| Fairfield U.                                | 319  | 75    | 78    | ne    | 118   | 74                 | 70    | ne   | 80    |
| Lafayette C.                                | 319  | 69    | 24    | 41    | 118   | 56                 | 13    | 36   | 105   |
| U. Central Oklahoma                         | 319  | 126   | i 132 | i 106 | i 118 | i 93               | i 98  | i 54 | i 60  |
| Eastern Connecticut State U.                | 323  | 79    | 87    | 0     | 117   | 0                  | 0     | 0    | 2     |
| CUNY, C. Staten Island                      | 324  | 691   | 391   | 173   | 116   | 513                | 308   | 157  | 65    |
| Northern Illinois U.                        | 325  | 76    | 40    | 62    | 114   | 24                 | 31    | 31   | 78    |
| Colgate U.                                  | 326  | 84    | 153   | 153   | 113   | 56                 | 65    | 113  | 74    |
| California State U., Sacramento             | 327  | 94    | 116   | 131   | 112   | 0                  | 34    | 43   | 26    |
| C. Charleston                               | 328  | 81    | 61    | 31    | 109   | 0                  | 0     | 0    | 0     |
| Elon U.                                     | 328  | 0     | 87    | 135   | 109   | 0                  | 11    | 84   | 23    |
| California State Polytechnic U., Pomona     | 330  | 138   | 20    | 80    | 106   | 102                | 20    | 80   | 106   |
| U. Denver                                   | 330  | 120   | 80    | 243   | 106   | 68                 | 37    | 139  | 64    |
| Tougaloo C.                                 | 332  | 0     | 0     | i 91  | i 105 | 0                  | 0     | i 91 | i 103 |
| Fisk U.                                     | 333  | 12    | 415   | 167   | 104   | 12                 | 407   | 158  | 52    |
| Seattle U.                                  | 333  | 184   | 93    | 153   | 104   | 159                | 90    | 97   | 42    |
| Bowdoin C.                                  | 335  | 29    | 10    | 40    | 103   | 24                 | 5     | 29   | 92    |
| Gallaudet U.                                | 336  | 3     | 1     | 2     | 102   | 0                  | 1     | 0    | 40    |
| Ball State U.                               | 337  | 51    | 27    | 83    | 100   | 35                 | 16    | 27   | 44    |
| Southern U. and A&M C., Baton Rouge         | 337  | 5     | 68    | 87    | 100   | 0                  | 50    | 87   | 100   |
| U. Dayton                                   | 339  | 4     | 3     | 18    | 98    | 0                  | 0     | 0    | 61    |
| Haverford C.                                | 340  | 127   | i 28  | i 51  | i 97  | 65                 | 12    | 30   | 77    |
| Macalester C.                               | 341  | 138   | 100   | 123   | 96    | 96                 | 100   | 94   | 62    |
| South Dakota School of Mines and Technology | 342  | 339   | 216   | 16    | 95    | 339                | 216   | 16   | 95    |
| East Carolina U.                            | 343  | 75    | 7     | 439   | 90    | 0                  | 0     | 426  | 77    |
| Trinity U.                                  | 344  | 84    | 41    | 50    | 89    | 68                 | 37    | 38   | 48    |
| Ithaca C.                                   | 345  | 64    | 74    | 122   | 87    | 64                 | 74    | 122  | 85    |
| U. Texas, Tyler                             | 345  | 22    | 9     | 74    | 87    | 20                 | 2     | 74   | 87    |
| Drake U.                                    | 347  | ne    | 28    | 109   | 86    | ne                 | 27    | 108  | 73    |
| U. Colorado Colorado Springs                | 347  | 11    | 0     | 21    | 86    | 11                 | 0     | 0    | 67    |
| Duquesne U.                                 | 349  | 233   | 71    | 57    | 83    | 120                | 49    | 36   | 50    |

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution                          | Rank | Total |      |      |      | Federally financed |      |      |      |
|--------------------------------------|------|-------|------|------|------|--------------------|------|------|------|
|                                      |      | 2020  | 2021 | 2022 | 2023 | 2020               | 2021 | 2022 | 2023 |
| Bryant U.                            | 350  | ne    | ne   | ne   | 82   | ne                 | ne   | ne   | 82   |
| California State U., Dominguez Hills | 350  | 116   | 125  | 72   | 82   | 53                 | 61   | 39   | 1    |
| Loyola U., Chicago                   | 350  | 188   | 81   | 90   | 82   | 164                | 67   | 34   | 25   |
| U. Washington, Bothell               | 350  | 31    | 0    | 33   | 82   | 31                 | 0    | 22   | 75   |
| U. Akron                             | 354  | 82    | 161  | 191  | 78   | 60                 | 117  | 91   | 58   |
| Florida Gulf Coast U.                | 355  | 232   | 0    | 105  | 77   | 149                | 0    | 47   | 2    |
| U. Virginia's C. Wise                | 356  | ne    | 0    | 0    | 76   | ne                 | 0    | 0    | 0    |
| Grand Valley State U.                | 357  | 166   | 53   | 38   | 75   | 94                 | 23   | 1    | 0    |
| Seton Hall U.                        | 357  | 0     | 0    | 0    | 75   | 0                  | 0    | 0    | 0    |
| Union C., Schenectady                | 357  | 33    | 6    | 64   | 75   | 13                 | 0    | 36   | 24   |
| Wright State U.                      | 357  | 145   | 90   | 92   | 75   | 72                 | 67   | 61   | 32   |
| Appalachian State U.                 | 361  | 90    | 29   | 22   | 72   | 5                  | 0    | 6    | 29   |
| Western Carolina U.                  | 361  | 11    | 3    | 0    | 72   | 3                  | 3    | 0    | 72   |
| St. Olaf C.                          | 363  | 51    | 4    | ne   | 71   | 23                 | 0    | ne   | 8    |
| Idaho State U.                       | 364  | 0     | 2    | 18   | 70   | 0                  | 0    | 5    | 38   |
| Kenyon C.                            | 365  | 16    | ne   | 45   | 69   | 0                  | ne   | 18   | 49   |
| U. Puerto Rico, Ponce                | 365  | ne    | ne   | ne   | 69   | ne                 | ne   | ne   | 69   |
| Franklin and Marshall C.             | 367  | 52    | 50   | 30   | 68   | 22                 | 47   | 19   | 51   |
| C. New Jersey                        | 368  | 6     | 10   | 22   | 66   | 4                  | 10   | 21   | 65   |
| Calvin U.                            | 369  | 49 i  | 53 i | 57 i | 63 i | 40 i               | 40 i | 40   | 40   |
| Oakland U.                           | 369  | 34    | 55   | 80   | 63   | 34                 | 55   | 77   | 63   |
| Winthrop U.                          | 371  | 0     | 6    | 8    | 62   | 0                  | 0    | 0    | 0    |
| Albany State U.                      | 372  | 0     | 0    | ne   | 60   | 0                  | 0    | ne   | 60   |
| Central State U.                     | 373  | 37    | 69   | 42   | 59   | 37                 | 69   | 42   | 59   |
| Minnesota State U., Mankato          | 374  | 0     | 0    | 0    | 58   | 0                  | 0    | 0    | 58   |
| U. Rhode Island                      | 375  | 0     | 5    | 0    | 57   | 0                  | 0    | 0    | 57   |
| Hope C.                              | 376  | 68    | 30   | 33   | 56   | 58                 | 23   | 17   | 3    |
| U. Richmond                          | 376  | 106   | 114  | 36   | 56   | 21                 | 0    | 0    | 5    |
| Babson C.                            | 378  | 0 i   | 0 i  | 56 i | 55 i | 0                  | 0    | 0    | 0    |
| U. Toledo                            | 378  | 49    | 3    | 38   | 55   | 36                 | 0    | 29   | 42   |
| U. North Carolina, Wilmington        | 380  | 105   | 51   | 51   | 53   | 48                 | 20   | 51   | 32   |
| California State U., San Marcos      | 381  | 82    | 0    | 9    | 52   | 82                 | 0    | 9    | 52   |
| Western Kentucky U.                  | 381  | 27    | 9    | 75   | 52   | 11                 | 4    | 57   | 0    |
| U. Puerto Rico, Mayaguez             | 383  | 45    | 87   | 74   | 51   | 25                 | 87   | 5    | 0    |
| Northland C.                         | 384  | ne    | 40 i | 44 i | 50 i | ne                 | 35 i | 38 i | 43 i |

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution                               | Rank | Total |      |      |      | Federally financed |      |      |      |
|---|------|-------|------|------|------|--------------------|------|------|------|
|   |      | 2020  | 2021 | 2022 | 2023 | 2020               | 2021 | 2022 | 2023 |
| Azusa Pacific U.                          | 385  | 64    | 125  | 30   | 49   | 0                  | 0    | 0    | 0    |
| Oberlin C.                                | 385  | 4     | 39   | ne   | 49   | 0                  | 39   | ne   | 46   |
| U. Hartford                               | 387  | 131   | 100  | 34   | 48   | 131                | 100  | 30   | 48   |
| Central Michigan U.                       | 388  | 120   | 141  | 122  | 46   | 52                 | 1    | 0    | 16   |
| Pennsylvania State U., Behrend            | 388  | 21    | 174  | 41   | 46   | 15                 | 166  | 2    | 0    |
| Virginia Military Institute               | 388  | ne    | ne   | 39   | 46   | ne                 | ne   | 0    | 0    |
| Marshall U.                               | 391  | 1     | 0    | 0    | 44   | 0                  | 0    | 0    | 17   |
| Marian U., Indianapolis                   | 392  | ne    | ne   | ne   | 43   | ne                 | ne   | ne   | 3    |
| New C. Florida                            | 392  | ne    | ne   | ne   | 43   | ne                 | ne   | ne   | 33   |
| Winston-Salem State U.                    | 392  | 5     | 0    | 82   | 43   | 0                  | 0    | 51   | 43   |
| Central Connecticut State U.              | 395  | 17    | 25   | 24   | 40   | 0                  | 0    | 0    | 0    |
| Prairie View A&M U.                       | 395  | 145   | 81   | 5    | 40   | 0                  | 81   | 0    | 40   |
| Marymount U.                              | 397  | ne    | 0    | 0    | 39   | ne                 | 0    | 0    | 0    |
| Pennsylvania State U., Altoona            | 397  | ne    | ne   | ne   | 39   | ne                 | ne   | ne   | 0    |
| Virginia State U.                         | 399  | 645   | 217  | 206  | 36   | 645                | 217  | 206  | 36   |
| Middlebury C.                             | 400  | 0     | 62   | 0    | 35   | 0                  | 0    | 0    | 35   |
| Northern Michigan U.                      | 400  | 0     | 0    | 0    | 35   | 0                  | 0    | 0    | 0    |
| St. Edward's U.                           | 400  | 645   | 645  | 209  | 35   | 600                | 600  | 159  | 0    |
| U. Houston-Downtown                       | 400  | 10    | 19   | 2    | 35   | 9                  | 17   | 0    | 10   |
| U. Southern Maine                         | 400  | 0     | 11   | 13   | 35   | 0                  | 11   | 13   | 29   |
| Western New England U.                    | 400  | ne    | ne   | 50   | 35   | ne                 | ne   | 50   | 35   |
| Northern Arizona U.                       | 406  | 0     | 0    | 5    | 34   | 0                  | 0    | 0    | 0    |
| U.S. Air Force Academy                    | 406  | 0     | 0    | 451  | 34   | 0                  | 0    | 451  | 27   |
| Florida A&M U.                            | 408  | 0     | 4    | 15   | 33   | 0                  | 0    | 0    | 28   |
| California State Polytechnic U., Humboldt | 409  | 10    | 8    | 1    | 32   | 0                  | 0    | 0    | 0    |
| Florida Polytechnic U.                    | 410  | 0     | 0    | 9    | 30   | 0                  | 0    | 0    | 0    |
| Texas A&M U.-San Antonio                  | 411  | ne    | ne   | 0    | 29   | ne                 | ne   | 0    | 27   |
| Andrews U.                                | 412  | 3     | 0    | ne   | 28   | 0                  | 0    | ne   | 26   |
| Langston U.                               | 413  | 2     | 0    | 2    | 27   | 2                  | 0    | 0    | 21   |
| U. North Florida                          | 413  | 70    | 19   | 28   | 27   | 0                  | 0    | 0    | 0    |
| Northwestern State U. Louisiana           | 415  | 19    | 12   | 23   | 26   | 0                  | 0    | 0    | 0    |
| California State U., Chico                | 416  | 57    | 41   | 42   | 25   | 10                 | 0    | 15   | 0    |
| U. Wisconsin-Platteville                  | 416  | 21    | 19   | 23   | 25   | 8                  | 9    | 11   | 12   |
| West Virginia State U.                    | 418  | 0     | 0    | 0    | 23   | 0                  | 0    | 0    | 23   |
| U. West Florida                           | 419  | 313   | 81   | 71   | 22   | 0                  | 0    | 0    | 0    |

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution                        | Rank | Total |      |      |      | Federally financed |      |      |      |
|------------------------------------|------|-------|------|------|------|--------------------|------|------|------|
|                                    |      | 2020  | 2021 | 2022 | 2023 | 2020               | 2021 | 2022 | 2023 |
| U. Wisconsin-Eau Claire            | 419  | 82    | 102  | 11   | 22   | 35                 | 49   | 11   | 22   |
| Lewis and Clark C.                 | 421  | 174   | 79   | 0    | 21   | 45                 | 56   | 0    | 21   |
| U. North Georgia                   | 421  | 1     | 0    | 0    | 21   | 0                  | 0    | 0    | 16   |
| U. Wisconsin-Green Bay             | 421  | 18    | 15   | 21   | 21   | 9                  | 7    | 8    | 9    |
| U. Wisconsin-La Crosse             | 421  | 112   | 84   | 59   | 21   | 77                 | 70   | 43   | 11   |
| East Tennessee State U.            | 425  | 149   | 50   | 185  | 19   | 123                | 37   | 125  | 19   |
| Skidmore C.                        | 425  | 12    | 0    | 26   | 19   | 0                  | 0    | 14   | 9    |
| C. of Saint Benedict               | 427  | 17    | 14   | 16   | 18   | 0                  | 2    | 2    | 2    |
| Citadel Military C. South Carolina | 427  | 3     | 8    | 28   | 18   | 0                  | 0    | 15   | 0    |
| Ohio U.                            | 427  | 90    | 53   | 38   | 18   | 76                 | 25   | 26   | 0    |
| Fort Valley State U.               | 430  | 184   | 22   | 0    | 17   | 158                | 22   | 0    | 17   |
| Saint John's U.                    | 430  | 16    | 13   | 15   | 17   | 0                  | 0    | 0    | 0    |
| Hamilton C.                        | 432  | 18    | 10   | 4    | 16   | 0                  | 0    | 0    | 0    |
| Merrimack C.                       | 432  | 0     | ne   | ne   | 16   | 0                  | ne   | ne   | 16   |
| Clark U.                           | 434  | 0     | 0    | 0    | 15   | 0                  | 0    | 0    | 0    |
| Hobart and William Smith Colleges  | 434  | 83    | 6    | 90   | 15   | 83                 | 5    | 85   | 0    |
| Pennsylvania State U., Harrisburg  | 434  | 0     | 4    | 7    | 15   | 0                  | 2    | 7    | 15   |
| U. South Carolina, Beaufort        | 434  | ne    | ne   | ne   | 15   | ne                 | ne   | ne   | 6    |
| Bowie State U.                     | 438  | 0     | 0    | 0    | 14   | 0                  | 0    | 0    | 14   |
| Dillard U.                         | 438  | 0     | 0    | 21   | 14   | 0                  | 0    | 19   | 14   |
| Southern Connecticut State U.      | 438  | 35    | 187  | 107  | 14   | 0                  | 0    | 0    | 0    |
| Gustavus Adolphus C.               | 441  | ne    | ne   | ne   | 13   | ne                 | ne   | ne   | 0    |
| Robert Morris U.                   | 441  | ne    | ne   | 12   | 13   | ne                 | ne   | 0    | 0    |
| U. South Carolina, Aiken           | 441  | 0     | 3    | 12   | 13   | 0                  | 0    | 0    | 0    |
| Bates C.                           | 444  | 16    | 2    | 1    | 11   | 8                  | 0    | 0    | 0    |
| California State U., Los Angeles   | 445  | 10    | 26   | 0    | 10   | 10                 | 26   | 0    | 10   |
| Abilene Christian U.               | 446  | ne    | 0    | 0    | 9    | ne                 | 0    | 0    | 0    |
| Saint Joseph's U.                  | 446  | 6     | 8    | 15   | 9    | 0                  | 0    | 0    | 4    |
| Santa Clara U.                     | 446  | 22    | 39   | 41   | 9    | 20                 | 15   | 37   | 8    |
| Willamette U.                      | 449  | 10    | 10   | 20   | 8    | 0                  | 0    | 0    | 0    |
| SUNY, Geneseo                      | 450  | 41    | 3    | 16   | 7    | 35                 | 0    | 0    | 0    |
| U. Central Arkansas                | 450  | 24    | 35   | 10   | 7    | 15                 | 16   | 1    | 7    |
| U. Texas of the Permian Basin      | 450  | 0     | 0    | 1    | 7    | 0                  | 0    | 0    | 0    |
| U.S. Coast Guard Academy           | 450  | ne    | ne   | ne   | 7    | ne                 | ne   | ne   | 0    |
| U. Hawaii, Hilo                    | 454  | 1,126 | 998  | 33   | 6    | 863                | 753  | 25   | 0    |

TABLE 47

**Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2023 total: FYs 2020–23**

(Dollars in thousands)

| Institution                                    | Rank | Total |       |       |      | Federally financed |       |       |      |
|--|------|-------|-------|-------|------|--------------------|-------|-------|------|
|  |      | 2020  | 2021  | 2022  | 2023 | 2020               | 2021  | 2022  | 2023 |
| U. Wisconsin-Superior                          | 454  | 0     | 0     | 0     | 6    | 0                  | 0     | 0     | 0    |
| SUNY, Oswego                                   | 456  | 0     | 3     | 0     | 5    | 0                  | 0     | 0     | 0    |
| U. Northern Iowa                               | 456  | 1     | 1     | 6     | 5    | 0                  | 0     | 0     | 4    |
| Butler U.                                      | 458  | ne    | ne    | 0     | 4    | ne                 | ne    | 0     | 0    |
| U. Tulsa                                       | 458  | 4     | 3     | 6     | 4    | 0                  | 0     | 0     | 0    |
| SUNY, C. of Environmental Science and Forestry | 460  | 0     | 0     | 3     | i 3  | 0                  | 0     | 0     | 0    |
| U. Nebraska, Kearney                           | 460  | 8     | 0     | 0     | 3    | 0                  | 0     | 0     | 0    |
| U. Puget Sound                                 | 460  | 4     | ne    | 4     | 3    | 0                  | ne    | 0     | 0    |
| Rutgers, State U. New Jersey, Camden           | 463  | 94    | 111   | 0     | 2    | 84                 | 61    | 0     | 0    |
| U. New England                                 | 463  | 0     | 1     | 0     | 2    | 0                  | 0     | 0     | 0    |
| U. of Mary Washington                          | 463  | 8     | 5     | 0     | 2    | 0                  | 4     | 0     | 0    |
| Eastern Washington U.                          | 466  | 15    | 1     | 2     | 1    | 15                 | 0     | 0     | 0    |
| Indiana U. Pennsylvania                        | 466  | 26    | 4     | 17    | 1    | 0                  | 0     | 0     | 0    |
| U. New Haven                                   | 466  | 4     | 0     | 17    | 1    | 0                  | 0     | 0     | 0    |
| U. of St. Thomas (MN)                          | 466  | 43    | 28    | 19    | 1    | 40                 | 28    | 19    | 0    |
| West Texas A&M U.                              | 466  | 1     | 1     | 7     | 1    | 0                  | 0     | 0     | 0    |
| William Paterson U.                            | 466  | 185   | 68    | 63    | 1    | 0                  | 0     | 0     | 0    |
| All other surveyed institutions                | -    | 9,711 | 7,693 | 6,038 | 0    | 4,283              | 2,954 | 1,779 | 0    |

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$225,795 thousand imputed for total and \$220,386 thousand reported for federally financed R&D expenditures in mathematics and statistics in FY 2023. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2023 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.