

TABLE 58  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019**

(Dollars in thousands)

| Institution   | Rank | 2017      | 2018      | 2019               |   |   |           |            |        |             |                            |         |
|---|------|-----------|-----------|--------------------|---|---|-----------|------------|--------|-------------|----------------------------|---------|
|   |      |           |           | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law    | Social work | Visual and performing arts | Other   |
| All institutions  | -    | 1,207,166 | 1,240,092 | 1,236,233          | 73,296  | 35,467  | 662,423   | 49,747     | 31,585 | 133,080     | 9,091                      | 241,544 |
| U. Washington, Seattle                                  | 1    | 39,882    | 33,703    | 34,540             | 154   | 3,945   | 17,892    | 646        | 122    | 10,079      | 50                         | 1,652   |
| Ohio State U.   | 2    | 37,157    | 35,400    | 32,570             | 523   | 349   | 11,346    | 1,225      | 49     | 1,679       | 248                        | 17,151  |
| U. Kansas   | 3    | 22,069    | 25,111    | 28,015             | 47  | 0   | 18,357    | 263        | 0      | 7,060       | 68                         | 2,220   |
| Stanford U.   | 4    | 25,770    | 25,572    | 25,269             | 78  | 463   | 24,499    | 207        | 0      | 0           | 0                          | 22      |
| Vanderbilt U. and Vanderbilt U. Medical Center          | 5    | 10,216    | 15,026    | 22,034             | 11  | 0   | 21,911    | 79         | 0      | 0           | 0                          | 33      |
| Washington State U.                                     | 6    | 19,535    | 19,904    | 21,558             | 2,938   | 1,147   | 13,220    | 256        | 298    | 148         | 0                          | 3,551   |
| New York U.   | 7    | 21,197    | 20,698    | 20,713             | 257   | 0   | 15,531    | 10         | 100    | 2,625       | 250                        | 1,940   |
| U. Texas, Austin  | 8    | 19,058    | 18,177    | 20,430             | 1,123   | 857   | 14,176    | 70         | 0      | 2,941       | 18                         | 1,245   |
| U. Utah   | 9    | 30,503    | 5,258     | 20,428             | 3   | 1,208   | 528       | 186        | 0      | 4,186       | 0                          | 14,317  |
| U. Virginia, Charlottesville                            | 10   | 13,717    | 19,007    | 19,322             | 0   | 0   | 15,939    | 1,816      | 518    | 0           | 7                          | 1,042   |
| U. North Carolina, Chapel Hill                          | 11   | 18,403    | 19,588    | 18,990             | 435   | 398   | 5,221     | 233        | 0      | 10,599      | 39                         | 2,065   |
| U. Florida  | 12   | 13,101    | 14,792    | 18,905             | 2,780   | 645   | 11,352    | 45         | 69     | 0           | 94                         | 3,920   |
| U. Maryland <sup>a</sup>                                | 13   | na        | na        | 18,754             | 562   | 1   | 1,909     | 1,435      | 69     | 10,609      | 237                        | 3,932   |
| Purdue U., West Lafayette                               | 14   | 20,145    | 21,309    | 18,643             | 1,065   | 0   | 4,550     | 0          | 0      | 0           | 0                          | 13,028  |
| Florida State U.  | 15   | 15,919    | 17,749    | 18,312             | 174   | 1,565   | 16,055    | 8          | 54     | 381         | 17                         | 58      |
| U. South Florida, Tampa                                 | 16   | 15,513    | 16,011    | 17,220             | 1,148   | 168   | 14,711    | 56         | 0      | 514         | 54                         | 569     |
| Texas A&M U., College Station and Health Science Center | 17   | 13,054    | 16,997    | 17,219             | 694   | 0   | 14,442    | 203        | 250    | 0           | 3                          | 1,627   |
| Virginia Commonwealth U.                                | 18   | 20,244    | 17,592    | 16,900             | 0   | 6   | 16,234    | 60         | 0      | 332         | 1                          | 267     |
| U. Oregon   | 19   | 12,506    | 15,165    | 16,171             | 90  | 121   | 13,901    | 1,212      | 70     | 0           | 0                          | 777     |
| Texas State U.  | 20   | 14,393    | 18,016    | 16,111             | 18  | 0   | 5,919     | 10         | 10,097 | 0           | 0                          | 67      |
| Georgia State U.  | 21   | 16,406    | 16,409    | 15,303             | 117   | 1,380   | 10,831    | 18         | 50     | 2,907       | 0                          | 0       |
| U. Colorado Boulder                                     | 22   | 14,747    | 14,947    | 14,982             | 1,478   | 126   | 13,146    | 209        | 0      | 1           | 0                          | 22      |
| U. South Carolina, Columbia                             | 23   | 6,483     | 7,654     | 14,940             | 350   | 0   | 2,492     | 231        | 0      | 4,574       | 0                          | 7,293   |
| U. Wisconsin-Madison                                    | 24   | 17,813    | 18,382    | 14,831             | 119   | 202   | 13,185    | 623        | 0      | 32          | 1                          | 669     |
| U. Pennsylvania   | 25   | 16,506    | 16,517    | 14,612             | 283   | 2,990   | 7,244     | 259        | 181    | 0           | 128                        | 3,527   |
| Arizona State U.  | 26   | 12,776    | 9,589     | 13,557             | 1,856   | 568   | 4,025     | 920        | 1,861  | 4,298       | 29                         | 0       |
| Michigan State U.                                       | 27   | 14,218    | 12,944    | 13,495             | 440   | 1,182   | 8,870     | 384        | 0      | 478         | 3                          | 2,138   |
| U. Illinois, Urbana-Champaign                           | 28   | 14,248    | 13,978    | 13,200             | 28  | 0   | 2,620     | 376        | 25     | 1,974       | 92                         | 8,085   |
| U. California, Los Angeles                              | 29   | 8,047     | 18,090    | 12,974             | 132   | 1,672   | 9,996     | 587        | 58     | 0           | 289                        | 240     |
| U. Southern California                                  | 30   | 13,689    | 13,812    | 12,636             | 1,073   | 644   | 2,365     | 308        | 583    | 5,238       | 2,021                      | 404     |

TABLE 58  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019**

(Dollars in thousands)

| Institution   | Rank | 2017   | 2018   | 2019               |   |   |           |            |     |             |                            |       |
|---|------|--------|--------|--------------------|---|---|-----------|------------|-----|-------------|----------------------------|-------|
|   |      |        |        | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law | Social work | Visual and performing arts | Other |
| Columbia U. in the City of New York                               | 31   | 14,846 | 12,546 | 12,304             | 855   | 24  | 4,299     | 304        | 42  | 6,475       | 0                          | 305   |
| Washington U., Saint Louis  | 32   | 5,809  | 9,358  | 11,623             | 101   | 0   | 260       | 0          | 0   | 11,262      | 0                          | 0     |
| Temple U.   | 33   | 9,768  | 13,807 | 11,472             | 538   | 0   | 5,606     | 103        | 390 | 1,568       | 6                          | 3,261 |
| U. Minnesota, Twin Cities   | 34   | 7,629  | 9,006  | 10,651             | 623   | 149   | 6,388     | 621        | 191 | 499         | 40                         | 2,140 |
| Rutgers, State U. New Jersey, New Brunswick                       | 35   | 24,683 | 20,089 | 10,578             | 920   | 743   | 5,512     | 283        | 0   | 2,008       | 0                          | 1,112 |
| Tufts U.  | 36   | 1,528  | 10,930 | 10,542             | 0   | 0   | 1,915     | 93         | 0   | 0           | 0                          | 8,534 |
| U. West Florida   | 37   | 9,334  | 7,485  | 10,296             | 8,239   | 0   | 985       | 238        | 0   | 31          | 0                          | 803   |
| U. California, Irvine   | 38   | 8,746  | 8,991  | 9,860              | 613   | 0   | 9,106     | 141        | 0   | 0           | 0                          | 0     |
| Pennsylvania State U., University Park and Hershey Medical Center | 39   | 9,983  | 8,025  | 9,288              | 2,265   | 46  | 5,336     | 1,531      | 74  | 0           | 36                         | 0     |
| U. Massachusetts, Boston  | 40   | 13,626 | 13,560 | 8,966              | 0   | 0   | 8,706     | 120        | 0   | 140         | 0                          | 0     |
| U. Denver   | 41   | 1,967  | 2,775  | 8,855              | 28  | 27  | 2,209     | 0          | 39  | 6,552       | 0                          | 0     |
| Clemson U.  | 42   | 7,336  | 7,117  | 8,745              | 81  | 0   | 767       | 14         | 0   | 0           | 0                          | 7,883 |
| Western Michigan U. and Homer Stryker M.D. School of Medicine     | 42   | 3,118  | 3,880  | 8,745              | 0   | 0   | 8,735     | 10         | 0   | 0           | 0                          | 0     |
| U. Central Florida  | 44   | 7,127  | 8,035  | 8,459              | 28  | 1,335   | 2,357     | 97         | 0   | 651         | 11                         | 3,980 |
| California Institute of Technology                                | 45   | 5,035  | 11,686 | 8,352              | 0   | 0   | 0         | 6,114      | 0   | 0           | 0                          | 2,238 |
| Colorado State U., Fort Collins                                   | 46   | 6,760  | 11,392 | 8,309              | 62  | 658   | 1,728     | 63         | 0   | 86          | 0                          | 5,712 |
| Montana State U., Bozeman   | 47   | 8,339  | 7,819  | 8,000              | 197   | 0   | 1,140     | 8          | 0   | 0           | 15                         | 6,640 |
| U. Baltimore  | 48   | 1,367  | 5,789  | 7,794              | 0   | 0   | 15        | 0          | 548 | 0           | 0                          | 7,231 |
| U. Illinois, Chicago  | 49   | 9,319  | 7,518  | 7,677              | 0   | 0   | 3,304     | 1,260      | 0   | 874         | 0                          | 2,239 |
| Georgia Institute of Technology                                   | 50   | 6,784  | 8,560  | 7,525              | 82  | 1,218   | 2,234     | 116        | 0   | 0           | 347                        | 3,528 |
| U. North Carolina, Greensboro                                     | 51   | 6,509  | 6,575  | 7,396              | 86  | 0   | 6,189     | 12         | 0   | 621         | 40                         | 448   |
| U. Massachusetts, Amherst   | 52   | 6,879  | 7,099  | 7,296              | 180   | 0   | 4,937     | 42         | 76  | 0           | 405                        | 1,656 |
| Harvard U.  | 53   | 7,888  | 8,862  | 7,282              | 0   | 0   | 7,056     | 154        | 72  | 0           | 0                          | 0     |
| U. Michigan, Ann Arbor  | 54   | 7,259  | 7,965  | 6,897              | 406   | 0   | 3,698     | 92         | 0   | 1,990       | 345                        | 366   |
| U. Missouri, Columbia   | 55   | 2,955  | 4,231  | 6,871              | 0   | 141   | 4,669     | 174        | 0   | 683         | 0                          | 1,204 |
| Florida International U.  | 56   | 5,228  | 5,124  | 6,845              | 670   | 0   | 5,778     | 128        | 0   | 19          | 0                          | 250   |

TABLE 58  
 Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

| Institution                                    | Rank | 2017  | 2018   | 2019               |   |   |           |            |       |             |                            |       |
|--|------|-------|--------|--------------------|---|---|-----------|------------|-------|-------------|----------------------------|-------|
|  |      |       |        | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law   | Social work | Visual and performing arts | Other |
| Portland State U.                              | 57   | 9,082 | 7,797  | 6,754              | 21  | 36  | 1,663     | 251        | 0     | 1,765       | 0                          | 3,018 |
| U. California, Berkeley                        | 58   | 3,791 | 4,943  | 6,273              | 140   | 1,192   | 4,447     | 98         | 386   | 0           | 10                         | 0     |
| U. Pittsburgh, Pittsburgh                      | 59   | 5,130 | 6,037  | 6,179              | 1,058   | 0   | 3,548     | 94         | 0     | 504         | 0                          | 975   |
| Oregon State U.                                | 60   | 5,771 | 5,451  | 5,790              | 0   | 0   | 10        | 75         | 0     | 0           | 0                          | 5,705 |
| U. Connecticut                                 | 61   | 3,660 | 5,026  | 5,724              | 1,474   | 85  | 2,828     | 16         | 4     | 650         | 50                         | 617   |
| Syracuse U.                                    | 62   | 7,879 | 6,493  | 5,660              | 1,605   | 311   | 1,284     | 28         | 2,363 | 0           | 0                          | 69    |
| U. New Hampshire                               | 63   | 6,624 | 7,953  | 5,642              | 952   | 0   | 3,908     | 65         | 0     | 717         | 0                          | 0     |
| Illinois State U.                              | 64   | 2,613 | 3,570  | 5,437              | 0   | 0   | 5,207     | 7          | 0     | 46          | 0                          | 177   |
| Texas Tech U.                                  | 65   | 7,921 | 6,854  | 5,279              | 430   | 102   | 4,627     | 48         | 0     | 0           | 9                          | 63    |
| U. Oklahoma, Norman and Health Science Center  | 66   | 6,667 | 6,847  | 5,215              | 127   | 686   | 657       | 59         | 40    | 74          | 20                         | 3,552 |
| Naval Postgraduate School                      | 67   | 4,836 | 2,989  | 5,190              | 2,009   | 0   | 1,907     | 0          | 0     | 0           | 0                          | 1,274 |
| U. Colorado Denver and Anschutz Medical Campus | 68   | 6,247 | 5,691  | 5,122              | 137   | 0   | 3,833     | 228        | 0     | 172         | 0                          | 752   |
| U. Chicago                                     | 69   | 5,641 | 5,351  | 4,939              | 283   | 0   | 1,348     | 620        | 58    | 2,630       | 0                          | 0     |
| George Mason U.                                | 70   | 4,913 | 5,166  | 4,930              | 808   | 969   | 2,285     | 462        | 0     | 0           | 11                         | 395   |
| William & Mary                                 | 71   | 4,698 | 5,667  | 4,871              | 0   | 0   | 4,341     | 85         | 281   | 0           | 7                          | 157   |
| Boston U.                                      | 72   | 6,004 | 20,607 | 4,841              | 132   | 0   | 3,227     | 0          | 0     | 1,482       | 0                          | 0     |
| U. Alabama, Tuscaloosa                         | 73   | 3,348 | 2,787  | 4,683              | 614   | 7   | 1,504     | 0          | 0     | 2,374       | 10                         | 174   |
| Northwestern U.                                | 74   | 7,877 | 4,836  | 4,560              | 530   | 1,184   | 1,979     | 298        | 509   | 0           | 60                         | 0     |
| SUNY, U. Buffalo                               | 75   | 2,523 | 3,370  | 4,525              | 88  | 0   | 3,935     | 453        | 0     | 0           | 30                         | 19    |
| North Carolina State U.                        | 76   | 4,730 | 4,818  | 4,474              | 102   | 0   | 3,266     | 1,106      | 0     | 0           | 0                          | 0     |
| Indiana U., Bloomington                        | 77   | 3,805 | 3,841  | 4,470              | 165   | 0   | 3,033     | 209        | 0     | 0           | 30                         | 1,033 |
| Boston C.                                      | 78   | 3,511 | 2,867  | 4,458              | 0   | 0   | 2,253     | 0          | 67    | 2,138       | 0                          | 0     |
| Naval War C.                                   | 79   | 0     | 0      | 4,381              | 0   | 0   | 0         | 0          | 0     | 0           | 0                          | 4,381 |
| U. Delaware                                    | 80   | 4,782 | 4,991  | 4,369              | 2   | 19  | 4,321     | 27         | 0     | 0           | 0                          | 0     |
| Rochester Institute of Technology              | 81   | 3,398 | 3,298  | 4,164              | 0   | 0   | 3,254     | 208        | 0     | 0           | 571                        | 131   |
| U. Louisville                                  | 82   | 2,397 | 3,230  | 4,142              | 205   | 0   | 323       | 0          | 356   | 2,570       | 0                          | 688   |
| U. California, Davis                           | 83   | 4,412 | 5,195  | 4,106              | 64  | 0   | 3,797     | 89         | 5     | 0           | 151                        | 0     |
| Northeastern U.                                | 84   | 3,382 | 5,268  | 4,099              | 378   | 220   | 1,987     | 360        | 887   | 0           | 149                        | 118   |
| U.S. Military Academy                          | 85   | 6,183 | 7,080  | 4,096              | 0   | 0   | 0         | 0          | 0     | 0           | 0                          | 4,096 |
| U. Notre Dame                                  | 86   | 1,749 | 4,038  | 4,076              | 28  | 0   | 0         | 295        | 0     | 0           | 0                          | 3,753 |

TABLE 58  
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(Dollars in thousands)

| Institution  | Rank | 2017  | 2018  | 2019               |   |   |           |            |       |             |                            |       |
|--|------|-------|-------|--------------------|---|---|-----------|------------|-------|-------------|----------------------------|-------|
|  |      |       |       | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law   | Social work | Visual and performing arts | Other |
| U. Louisiana, Lafayette                            | 87   | 8,942 | 8,108 | 4,059              | 375   | 0   | 3,675     | 6          | 0     | 0           | 3                          | 0     |
| U. Arkansas, Fayetteville                          | 88   | 4,292 | 4,649 | 4,004              | 29  | 8   | 2,746     | 47         | 654   | 34          | 98                         | 388   |
| U. Arizona   | 89   | 4,366 | 3,915 | 3,965              | 0   | 79  | 3,075     | 0          | 158   | 0           | 0                          | 653   |
| U. Iowa  | 90   | 2,163 | 2,901 | 3,924              | 285   | 0   | 2,110     | 434        | 674   | 421         | 0                          | 0     |
| CUNY, John Jay C. of Criminal Justice              | 91   | 2,993 | 2,947 | 3,817              | 0   | 0   | 0         | 0          | 3,811 | 0           | 0                          | 6     |
| Old Dominion U.                                    | 92   | 9,514 | 3,792 | 3,722              | 94  | 0   | 3,622     | 3          | 0     | 0           | 3                          | 0     |
| Wayne State U.                                     | 93   | 2,556 | 3,227 | 3,694              | 0   | 0   | 552       | 0          | 46    | 1,660       | 80                         | 1,356 |
| Massachusetts Institute of Technology              | 94   | 2,837 | 3,078 | 3,524              | 2,583   | 0   | 824       | 60         | 0     | 0           | 0                          | 57    |
| Virginia Polytechnic Institute and State U.        | 95   | 4,675 | 4,757 | 3,399              | 10  | 49  | 2,478     | 235        | 0     | 21          | 0                          | 606   |
| Drexel U.  | 96   | 1,595 | 2,703 | 3,321              | 158   | 0   | 1,822     | 0          | 0     | 0           | 266                        | 1,075 |
| U. Georgia   | 97   | 4,950 | 3,617 | 3,320              | 8   | 8   | 2,079     | 450        | 0     | 0           | 0                          | 775   |
| Yale U.  | 98   | 9,613 | 3,216 | 3,285              | 2,388   | 0   | 47        | 813        | 0     | 0           | 19                         | 18    |
| Florida A&M U.                                     | 99   | 2,484 | 2,561 | 3,245              | 354   | 0   | 530       | 0          | 0     | 0           | 51                         | 2,310 |
| U. Cincinnati                                      | 100  | 2,578 | 3,802 | 3,236              | 0   | 0   | 2,015     | 0          | 0     | 0           | 0                          | 1,221 |
| Rensselaer Polytechnic Institute                   | 101  | 3,381 | 3,735 | 3,203              | 24  | 17  | 0         | 0          | 0     | 0           | 70                         | 3,092 |
| Seton Hall U.                                      | 102  | 1,132 | 2,827 | 3,172              | 0   | 0   | 3,172     | 0          | 0     | 0           | 0                          | 0     |
| U. Rhode Island                                    | 103  | 3,162 | 2,891 | 3,167              | 8   | 262   | 759       | 784        | 136   | 0           | 0                          | 1,218 |
| Cornell U.   | 104  | 2,827 | 5,552 | 3,147              | 180   | 659   | 0         | 152        | 113   | 0           | 261                        | 1,782 |
| George Washington U.                               | 105  | 3,802 | 3,356 | 3,135              | 343   | 0   | 2,085     | 331        | 39    | 0           | 0                          | 337   |
| U. Kentucky  | 106  | 2,976 | 2,704 | 3,085              | 441   | 126   | 509       | 0          | 0     | 473         | 0                          | 1,536 |
| U. New Mexico                                      | 107  | 5,545 | 2,637 | 3,075              | 727   | 5   | 1,401     | 102        | 78    | 243         | 0                          | 519   |
| U. Idaho   | 108  | 2,056 | 3,697 | 3,067              | 840   | 0   | 2,074     | 2          | 0     | 0           | 0                          | 151   |
| West Virginia U.                                   | 109  | 2,511 | 3,009 | 3,033              | 75  | 193   | 903       | 33         | 0     | 2           | 0                          | 1,827 |
| Wichita State U.                                   | 110  | 2,178 | 2,184 | 3,001              | 4   | 2   | 0         | 109        | 0     | 0           | 0                          | 2,886 |
| U. California, Santa Barbara                       | 111  | 4,284 | 3,323 | 2,948              | 514   | 212   | 1,976     | 246        | 0     | 0           | 0                          | 0     |
| North Carolina Agricultural and Technical State U. | 112  | 1,450 | 2,662 | 2,939              | 1,120   | 0   | 813       | 0          | 0     | 1           | 0                          | 1,005 |
| Florida Gulf Coast U.                              | 113  | 2,641 | 2,400 | 2,829              | 474   | 0   | 2,332     | 3          | 11    | 0           | 0                          | 9     |
| U. North Florida                                   | 114  | 148   | 2,493 | 2,774              | 902   | 0   | 1,872     | 0          | 0     | 0           | 0                          | 0     |

TABLE 58  
 Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

| Institution                         | Rank | 2017   | 2018   | 2019               |   |   |           |            |     |             |                            |       |
|-------------------------------------|------|--------|--------|--------------------|---|---|-----------|------------|-----|-------------|----------------------------|-------|
|                                     |      |        |        | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law | Social work | Visual and performing arts | Other |
| Johns Hopkins U. <sup>b</sup>       | 115  | 4,871  | 4,392  | 2,759              | 0   | 0   | 0         | 2,699      | 0   | 0           | 0                          | 60    |
| California State U., San Bernardino | 116  | 1,142  | 2,484  | 2,660              | 0   | 0   | 2,660     | 0          | 0   | 0           | 0                          | 0     |
| Southern Methodist U.               | 117  | 2,486  | 1,871  | 2,650              | 0   | 0   | 2,650     | 0          | 0   | 0           | 0                          | 0     |
| U. Montana, Missoula                | 118  | 69     | 2,733  | 2,647              | 0   | 0   | 1,007     | 25         | 0   | 1,584       | 0                          | 31    |
| Brown U.                            | 119  | 3,692  | 3,068  | 2,611              | 0   | 0   | 2,339     | 167        | 0   | 0           | 0                          | 105   |
| Rhode Island C.                     | 120  | 2,971  | 2,668  | 2,606              | 139   | 0   | 2,280     | 0          | 0   | 187         | 0                          | 0     |
| U. Texas, Arlington                 | 121  | 2,523  | 1,964  | 2,566              | 9   | 15  | 501       | 153        | 0   | 312         | 0                          | 1,576 |
| U. Alabama, Birmingham              | 122  | 2,613  | 2,959  | 2,493              | 89  | 0   | 535       | 0          | 0   | 64          | 0                          | 1,805 |
| U. North Dakota                     | 123  | 2,417  | 2,192  | 2,465              | 0   | 74  | 420       | 2          | 0   | 128         | 0                          | 1,841 |
| Kansas State U.                     | 124  | 3,147  | 2,706  | 2,391              | 0   | 0   | 1,086     | 17         | 0   | 0           | 12                         | 1,276 |
| Iowa State U.                       | 125  | 2,614  | 2,438  | 2,325              | 95  | 3   | 1,674     | 459        | 0   | 0           | 64                         | 30    |
| CUNY, Hunter C.                     | 126  | 526    | 1,713  | 2,297              | 0   | 0   | 1,470     | 0          | 0   | 827         | 0                          | 0     |
| Lehigh U.                           | 127  | 2,588  | 2,185  | 2,272              | 47  | 0   | 2,092     | 44         | 0   | 0           | 0                          | 89    |
| New Jersey Institute of Technology  | 128  | 14,557 | 13,686 | 2,258              | 29  | 0   | 1,777     | 2          | 0   | 0           | 0                          | 450   |
| U. Maryland, Baltimore County       | 129  | 6      | 588    | 2,253              | 0   | 0   | 1,995     | 47         | 76  | 29          | 7                          | 99    |
| Jacksonville State U.               | 130  | 2,729  | 2,595  | 2,245              | 0   | 0   | 2,245     | 0          | 0   | 0           | 0                          | 0     |
| Boise State U.                      | 131  | 1,052  | 1,761  | 2,139              | 66  | 0   | 2,058     | 15         | 0   | 0           | 0                          | 0     |
| U. South Florida, Saint Petersburg  | 132  | 2,630  | 2,178  | 2,095              | 0   | 0   | 2,095     | 0          | 0   | 0           | 0                          | 0     |
| National Defense U.                 | 133  | 570    | 2,057  | 2,076              | 0   | 0   | 2,076     | 0          | 0   | 0           | 0                          | 0     |
| Miami U.                            | 134  | 1,525  | 1,703  | 2,075              | 1   | 172   | 1,616     | 0          | 0   | 0           | 0                          | 286   |
| San Jose State U.                   | 135  | 1,333  | 2,294  | 2,071              | 1,786   | 5   | 0         | 39         | 0   | 108         | 0                          | 133   |
| New Jersey City U.                  | 136  | 448    | 650    | 2,022              | 200   | 0   | 600       | 500        | 0   | 200         | 212                        | 310   |
| Bowling Green State U.              | 137  | 2,830  | 2,781  | 1,974              | 0   | 0   | 1,924     | 50         | 0   | 0           | 0                          | 0     |
| U. Nevada, Reno                     | 138  | 1,344  | 2,756  | 1,936              | 1,684   | 24  | 1         | 0          | 54  | 50          | 63                         | 60    |
| Brigham Young U., Provo             | 139  | 2,810  | 2,525  | 1,924              | 316   | 0   | 86        | 1,519      | 0   | 0           | 0                          | 3     |
| San Diego State U.                  | 140  | 2,191  | 1,580  | 1,920              | 85  | 0   | 1,614     | 18         | 0   | 203         | 0                          | 0     |
| Northern Illinois U.                | 141  | 1,783  | 1,978  | 1,905              | 21  | 0   | 325       | 0          | 0   | 0           | 0                          | 1,559 |
| U. Tennessee, Knoxville             | 142  | 1,777  | 1,748  | 1,885              | 906   | 0   | 98        | 321        | 12  | 0           | 4                          | 544   |
| East Carolina U.                    | 143  | 140    | 957    | 1,884              | 18  | 0   | 1,154     | 413        | 0   | 51          | 19                         | 229   |
| U. Nebraska, Lincoln                | 144  | 1,576  | 1,487  | 1,747              | 49  | 0   | 970       | 465        | 48  | 0           | 0                          | 215   |

TABLE 58  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019**

(Dollars in thousands)

| Institution                          | Rank | 2017  | 2018  | 2019               |   |   |           |            |       |             |                            |       |
|--------------------------------------|------|-------|-------|--------------------|---|---|-----------|------------|-------|-------------|----------------------------|-------|
|                                      |      |       |       | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law   | Social work | Visual and performing arts | Other |
| Indiana U.-Purdue U., Indianapolis   | 145  | 405   | 763   | 1,677              | 44  | 33  | 598       | 106        | 0     | 58          | 0                          | 838   |
| U. Houston                           | 146  | 2,770 | 1,667 | 1,675              | 0   | 0   | 448       | 16         | 65    | 678         | 4                          | 464   |
| Salisbury U.                         | 147  | 1,397 | 1,436 | 1,632              | 268   | 0   | 1,095     | 3          | 0     | 221         | 0                          | 45    |
| St. Edward's U.                      | 148  | 2,429 | 5,693 | 1,607              | 200   | 200   | 1,000     | 0          | 0     | 0           | 0                          | 207   |
| U. Texas, San Antonio                | 149  | 1,297 | 881   | 1,602              | 0   | 40  | 1,423     | 63         | 0     | 0           | 0                          | 76    |
| Case Western Reserve U.              | 150  | 1,289 | 2,242 | 1,579              | 475   | 0   | 721       | 47         | 178   | 0           | 0                          | 158   |
| U. Alaska, Fairbanks                 | 151  | 1,847 | 1,436 | 1,559              | 269   | 0   | 827       | 21         | 0     | 0           | 0                          | 442   |
| U. Washington, Bothell               | 152  | 2,422 | 2,003 | 1,553              | 117   | 0   | 1,436     | 0          | 0     | 0           | 0                          | 0     |
| Texas A&M U.-Kingsville              | 153  | 2,042 | 1,819 | 1,545              | 0   | 0   | 1,545     | 0          | 0     | 0           | 0                          | 0     |
| U. California, Riverside             | 154  | 875   | 1,324 | 1,485              | 48  | 0   | 1,381     | 56         | 0     | 0           | 0                          | 0     |
| SUNY, U. Albany                      | 155  | 2,918 | 2,890 | 1,484              | 230   | 140   | 450       | 11         | 0     | 600         | 0                          | 53    |
| American U.                          | 156  | 1,199 | 1,776 | 1,467              | 165   | 93  | 0         | 0          | 1,190 | 0           | 0                          | 19    |
| Sam Houston State U.                 | 157  | 0     | 0     | 1,407              | 0   | 0   | 1,397     | 10         | 0     | 0           | 0                          | 0     |
| California State U., Northridge      | 158  | 1,804 | 2,070 | 1,396              | 230   | 0   | 584       | 149        | 0     | 0           | 0                          | 433   |
| U. Massachusetts, Lowell             | 159  | 1,393 | 1,104 | 1,361              | 24  | 0   | 993       | 264        | 0     | 0           | 0                          | 80    |
| SUNY, Stony Brook U.                 | 160  | 538   | 1,439 | 1,360              | 14  | 165   | 623       | 172        | 0     | 311         | 0                          | 75    |
| Rutgers, State U. New Jersey, Newark | 161  | 1,446 | 2,387 | 1,334              | 583   | 0   | 0         | 233        | 0     | 0           | 0                          | 518   |
| Texas A&M U.-Corpus Christi          | 162  | 1,202 | 1,121 | 1,320              | 0   | 0   | 1,062     | 0          | 0     | 0           | 0                          | 258   |
| U. Houston-Downtown                  | 163  | 882   | 1,133 | 1,307              | 2   | 0   | 1,275     | 0          | 0     | 0           | 0                          | 30    |
| U. Memphis                           | 164  | 1,227 | 1,703 | 1,296              | 194   | 0   | 521       | 8          | 0     | 533         | 40                         | 0     |
| U. North Carolina, Charlotte         | 165  | 1,026 | 1,020 | 1,282              | 228   | 0   | 506       | 38         | 0     | 470         | 0                          | 40    |
| North Carolina Central U.            | 166  | 1,350 | 2,219 | 1,268              | 0   | 0   | 561       | 0          | 537   | 76          | 0                          | 94    |
| U. North Texas, Denton               | 167  | 1,625 | 1,512 | 1,251              | 277   | 185   | 608       | 100        | 0     | 0           | 0                          | 81    |
| U. Southern Mississippi              | 168  | 1,557 | 1,484 | 1,237              | 0   | 0   | 0         | 166        | 0     | 0           | 0                          | 1,071 |
| U. Rochester                         | 169  | 820   | 1,357 | 1,226              | 145   | 0   | 792       | 7          | 0     | 0           | 2                          | 280   |
| Louisiana State U., Baton Rouge      | 170  | 1,600 | 856   | 1,223              | 6   | 222   | 540       | 175        | 45    | 33          | 54                         | 148   |
| U. Maine                             | 171  | 132   | 142   | 1,217              | 0   | 5   | 59        | 259        | 0     | 42          | 0                          | 852   |
| U. Nevada, Las Vegas                 | 172  | 712   | 1,016 | 1,209              | 855   | 26  | 59        | 0          | 33    | 72          | 0                          | 164   |
| Mississippi State U.                 | 173  | 493   | 647   | 1,192              | 86  | 0   | 613       | 0          | 0     | 0           | 0                          | 493   |
| Texas Woman's U.                     | 174  | 538   | 1,096 | 1,187              | 0   | 0   | 1,073     | 0          | 0     | 114         | 0                          | 0     |

TABLE 58  
 Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

| Institution                                  | Rank | 2017  | 2018  | 2019               |   |   |           |            |     |             |                            |       |
|--|------|-------|-------|--------------------|---|---|-----------|------------|-----|-------------|----------------------------|-------|
|  |      |       |       | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law | Social work | Visual and performing arts | Other |
| Pacific U.                                   | 175  | 1,228 | 1,078 | 1,186              | 0   | 0   | 1,186     | 0          | 0   | 0           | 0                          | 0     |
| U. Nebraska, central administration          | 176  | ne    | 639   | 1,163              | 0   | 77  | 0         | 0          | 148 | 0           | 0                          | 938   |
| CUNY, Lehman C.                              | 177  | 21    | 301   | 1,161              | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 1,161 |
| Duke U.                                      | 177  | 1,399 | 1,080 | 1,161              | 396   | 0   | 118       | 258        | 274 | 0           | 12                         | 103   |
| U. Nebraska, Omaha                           | 179  | 448   | 896   | 1,152              | 309   | 0   | 838       | 0          | 2   | 0           | 0                          | 3     |
| U. Texas, El Paso                            | 180  | 1,052 | 1,138 | 1,150              | 12  | 35  | 590       | 115        | 0   | 388         | 10                         | 0     |
| Virginia State U.                            | 180  | 422   | 841   | 1,150              | 62  | 0   | 1,088     | 0          | 0   | 0           | 0                          | 0     |
| Brandeis U.                                  | 182  | 1,289 | 1,261 | 1,142              | 0   | 0   | 534       | 0          | 0   | 0           | 50                         | 558   |
| U. Mississippi                               | 183  | 1,251 | 1,015 | 1,134              | 0   | 57  | 115       | 100        | 850 | 0           | 0                          | 12    |
| California State U., San Marcos              | 184  | 725   | 1,124 | 1,127              | 2   | 0   | 220       | 0          | 0   | 0           | 0                          | 905   |
| Oklahoma State U., Stillwater                | 185  | 2,646 | 3,369 | 1,123              | 77  | 103   | 352       | 37         | 0   | 0           | 3                          | 551   |
| Montclair State U.                           | 186  | 189   | 563   | 1,114              | 0   | 0   | 1,075     | 0          | 0   | 0           | 0                          | 39    |
| Tougaloo C.                                  | 187  | 778   | 313   | 1,087              | 0   | 0   | 362       | 0          | 0   | 0           | 0                          | 725   |
| Gallaudet U.                                 | 188  | 107   | 117   | 1,085              | 0   | 753   | 25        | 307        | 0   | 0           | 0                          | 0     |
| Fordham U.                                   | 189  | 1,011 | 763   | 1,047              | 30  | 0   | 700       | 30         | 42  | 204         | 0                          | 41    |
| Georgetown U.                                | 190  | 1,211 | 1,199 | 1,046              | 362   | 379   | 0         | 187        | 118 | 0           | 0                          | 0     |
| Pace U.                                      | 191  | 1,561 | 1,507 | 1,042              | 0   | 0   | 979       | 0          | 63  | 0           | 0                          | 0     |
| Lamar U.                                     | 192  | 32    | 100   | 1,037              | 175   | 0   | 208       | 0          | 0   | 410         | 0                          | 244   |
| Bowie State U.                               | 193  | 826   | 739   | 1,035              | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 1,035 |
| U. California, Santa Cruz                    | 194  | 1,430 | 979   | 1,034              | 0   | 0   | 415       | 480        | 0   | 0           | 139                        | 0     |
| U. Texas, Dallas                             | 195  | 853   | 1,036 | 1,023              | 65  | 0   | 59        | 899        | 0   | 0           | 0                          | 0     |
| Colorado School of Mines                     | 196  | 855   | 850   | 1,010              | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 1,010 |
| Johnson C. Smith U.                          | 197  | 866   | 1,009 | 996                | 0   | 249   | 200       | 249        | 0   | 0           | 0                          | 298   |
| Purdue U., Northwest                         | 198  | 1,806 | 1,278 | 980                | 0   | 0   | 808       | 2          | 0   | 0           | 162                        | 8     |
| William Paterson U.                          | 199  | 298   | 447   | 966                | 0   | 0   | 965       | 0          | 0   | 0           | 1                          | 0     |
| Emory U.                                     | 200  | 1,026 | 676   | 946                | 30  | 155   | 379       | 238        | 72  | 0           | 25                         | 47    |
| U. Maryland Center for Environmental Science | 201  | 587   | 732   | 903                | 0   | 4   | 899       | 0          | 0   | 0           | 0                          | 0     |
| Middle Tennessee State U.                    | 202  | 301   | 185   | 901                | 0   | 0   | 874       | 27         | 0   | 0           | 0                          | 0     |
| CUNY, system office                          | 203  | 107   | 0     | 894                | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 894   |
| Mills C.                                     | 204  | 1,286 | 928   | 840                | 0   | 0   | 840       | 0          | 0   | 0           | 0                          | 0     |

TABLE 58  
 Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

| Institution   | Rank | 2017  | 2018  | 2019               |   |   |           |            |     |             |                            |       |
|---|------|-------|-------|--------------------|---|---|-----------|------------|-----|-------------|----------------------------|-------|
|   |      |       |       | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law | Social work | Visual and performing arts | Other |
| New Mexico State U.                                 | 205  | 798   | 592   | 839                | 0   | 0   | 721       | 107        | 0   | 0           | 0                          | 11    |
| Northern Arizona U.                                 | 206  | 420   | 511   | 824                | 0   | 13  | 763       | 0          | 0   | 48          | 0                          | 0     |
| Worcester Polytechnic Institute                     | 207  | 1,007 | 551   | 820                | 329   | 0   | 314       | 0          | 0   | 0           | 0                          | 177   |
| Winthrop U.   | 208  | 798   | 977   | 804                | 0   | 0   | 773       | 31         | 0   | 0           | 0                          | 0     |
| U. California, San Diego                            | 209  | 1,826 | 1,212 | 787                | 139   | 25  | 371       | 232        | 0   | 0           | 20                         | 0     |
| U. Dayton   | 210  | 5,868 | 1,870 | 783                | 0   | 0   | 322       | 36         | 0   | 248         | 0                          | 177   |
| Kent State U.                                       | 211  | 1,320 | 853   | 774                | 0   | 0   | 693       | 22         | 0   | 25          | 0                          | 34    |
| U. North Carolina, Wilmington                       | 212  | 1,156 | 731   | 769                | 259   | 0   | 463       | 0          | 0   | 35          | 10                         | 2     |
| Kennesaw State U.                                   | 213  | 903   | 1,037 | 761                | 0   | 0   | 761       | 0          | 0   | 0           | 0                          | 0     |
| U. of the District of Columbia                      | 214  | 0     | 0     | 757                | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 757   |
| Erikson Institute                                   | 215  | 2,529 | 1,822 | 753                | 0   | 0   | 753       | 0          | 0   | 0           | 0                          | 0     |
| Bryn Mawr C.  | 216  | 1,075 | 977   | 749                | 0   | 0   | 0         | 749        | 0   | 0           | 0                          | 0     |
| Seattle U.  | 217  | 114   | 771   | 733                | 0   | 0   | 733       | 0          | 0   | 0           | 0                          | 0     |
| C. Charleston                                       | 218  | 850   | 723   | 706                | 0   | 28  | 479       | 57         | 0   | 0           | 50                         | 92    |
| Princeton U.  | 218  | 544   | 646   | 706                | 0   | 0   | 0         | 285        | 0   | 0           | 312                        | 109   |
| Black Hills State U.                                | 220  | 636   | 624   | 675                | 0   | 0   | 675       | 0          | 0   | 0           | 0                          | 0     |
| Auburn U., Auburn                                   | 221  | 1,007 | 770   | 673                | 0   | 0   | 472       | 158        | 0   | 0           | 0                          | 43    |
| Texas Christian U.                                  | 222  | 1,512 | 887   | 655                | 50  | 0   | 578       | 0          | 0   | 27          | 0                          | 0     |
| South Carolina State U.                             | 223  | 1,046 | 1,092 | 649                | 120   | 0   | 529       | 0          | 0   | 0           | 0                          | 0     |
| Loyola U., Chicago                                  | 224  | 463   | 863   | 643                | 0   | 0   | 0         | 0          | 39  | 604         | 0                          | 0     |
| James Madison U.                                    | 225  | 101   | 239   | 642                | 0   | 0   | 85        | 158        | 0   | 399         | 0                          | 0     |
| Stevens Institute of Technology                     | 226  | 417   | 760   | 639                | 0   | 0   | 18        | 0          | 0   | 0           | 333                        | 288   |
| North Dakota State U.                               | 227  | 789   | 637   | 629                | 67  | 23  | 473       | 0          | 0   | 0           | 5                          | 61    |
| Dartmouth C. and Dartmouth Hitchcock Medical Center | 228  | 471   | 707   | 628                | 126   | 0   | 233       | 34         | 0   | 0           | 233                        | 2     |
| Florida Atlantic U.                                 | 229  | 742   | 695   | 617                | 0   | 0   | 20        | 0          | 0   | 22          | 0                          | 575   |
| Southern Illinois U., Edwardsville                  | 230  | 333   | 302   | 610                | 0   | 0   | 119       | 74         | 0   | 0           | 0                          | 417   |
| La Sierra U.  | 231  | 552   | 580   | 608                | 0   | 0   | 608       | 0          | 0   | 0           | 0                          | 0     |
| CUNY, Queens C.                                     | 232  | 104   | 508   | 595                | 0   | 0   | 595       | 0          | 0   | 0           | 0                          | 0     |
| Utah State U.                                       | 233  | 1,223 | 871   | 592                | 337   | 0   | 0         | 36         | 0   | 0           | 0                          | 219   |



TABLE 58  
 Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

| Institution                         | Rank | 2017  | 2018  | 2019               |   |   |           |            |     |             |                            |       |   |
|-------------------------------------|------|-------|-------|--------------------|---|---|-----------|------------|-----|-------------|----------------------------|-------|---|
|                                     |      |       |       | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law | Social work | Visual and performing arts | Other |   |
| SUNY, Binghamton U.                 | 234  | 38    | 428   | 587                | 251   | 0   | 19        | 0          | 0   | 1           | 0                          | 316   |   |
| U. North Carolina, Asheville        | 235  | 137   | 133   | 584                | 21  | 113   | 446       | 0          | 0   | 0           | 0                          | 4     |   |
| Wesleyan U.                         | 236  | 85    | 363   | 582                | 0   | 210   | 238       | 94         | 0   | 0           | 40                         | 0     |   |
| U. Arkansas, Little Rock            | 237  | 536   | 822   | 574                | 9   | 0   | 565       | 0          | 0   | 0           | 0                          | 0     |   |
| U.S. Army War C.                    | 238  | ne    | ne    | 567                | i   | 0   | i         | 0          | i   | 0           | i                          | 567   | i |
| U. South Alabama                    | 239  | 771   | 526   | 564                | 0   | 0   | 564       | 0          | 0   | 0           | 0                          | 0     |   |
| California State U., Sacramento     | 240  | 1,018 | 772   | 563                | 0   | 0   | 503       | 0          | 0   | 0           | 0                          | 60    |   |
| Southern U. and A&M C., Baton Rouge | 240  | 54    | 529   | 563                | 54  | 0   | 509       | 0          | 0   | 0           | 0                          | 0     |   |
| Howard U.                           | 242  | 869   | 1,029 | 556                | 0   | 95  | 25        | 0          | 0   | 436         | 0                          | 0     |   |
| U. Alaska, Anchorage                | 243  | 1,089 | 1,067 | 554                | 6   | 0   | 229       | 0          | 319 | 0           | 0                          | 0     |   |
| Winston-Salem State U.              | 244  | 400   | 340   | 543                | 0   | 0   | 249       | 0          | 0   | 0           | 0                          | 294   |   |
| U. of the Virgin Islands            | 245  | 267   | 104   | 542                | 49  | 0   | 493       | 0          | 0   | 0           | 0                          | 0     |   |
| U. Miami                            | 246  | 836   | 1,190 | 530                | 0   | 0   | 530       | 0          | 0   | 0           | 0                          | 0     |   |
| San Francisco State U.              | 247  | 1,035 | 1,042 | 526                | 0   | 21  | 493       | 0          | 0   | 0           | 6                          | 6     |   |
| U. Alabama, Huntsville              | 248  | 350   | 335   | 522                | 146   | 0   | 358       | 12         | 0   | 0           | 0                          | 6     |   |
| Pepperdine U.                       | 249  | 744   | 424   | 515                | 0   | 0   | 397       | 5          | 113 | 0           | 0                          | 0     |   |
| Tennessee State U.                  | 250  | 1,331 | 955   | 513                | 17  | 0   | 370       | 0          | 0   | 0           | 0                          | 126   |   |
| Grambling State U.                  | 251  | 3,437 | 1,028 | 508                | 0   | 0   | 359       | 0          | 0   | 149         | 0                          | 0     |   |
| California State U., Chico          | 252  | 4     | 9     | 505                | 22  | 0   | 483       | 0          | 0   | 0           | 0                          | 0     |   |
| Cleveland State U.                  | 253  | 224   | 481   | 493                | 152   | 0   | 341       | 0          | 0   | 0           | 0                          | 0     |   |
| Salish Kootenai C.                  | 254  | 700   | 776   | 485                | 0   | 0   | 485       | 0          | 0   | 0           | 0                          | 0     |   |
| Rice U.                             | 255  | 575   | 568   | 479                | 381   | 0   | 57        | 41         | 0   | 0           | 0                          | 0     |   |
| Claremont Graduate U.               | 256  | 1,020 | i     | 746                | i   | 0   | 459       | 0          | 0   | 0           | 0                          | 13    |   |
| U. Toledo                           | 257  | 1,796 | 267   | 471                | 35  | 0   | 322       | 0          | 0   | 65          | 0                          | 49    |   |
| Western U. of Health Sciences       | 258  | 11    | 193   | 462                | 0   | 0   | 462       | 0          | 0   | 0           | 0                          | 0     |   |
| U. of Mary Washington               | 259  | ne    | 372   | 449                | 145   | 0   | 97        | 202        | 0   | 0           | 0                          | 5     |   |
| U. Northern Colorado                | 260  | 597   | 526   | 448                | 0   | 0   | 448       | 0          | 0   | 0           | 0                          | 0     |   |
| Hampton U.                          | 261  | 341   | 501   | 447                | 0   | 0   | 210       | 0          | 0   | 0           | 0                          | 237   |   |
| U. Wisconsin-Milwaukee              | 262  | 2,243 | 264   | 433                | 0   | 0   | 392       | 19         | 0   | 0           | 5                          | 17    |   |
| U. Wyoming                          | 263  | 232   | 57    | 425                | 0   | 0   | 414       | 0          | 0   | 0           | 0                          | 11    |   |

TABLE 58  
 Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

| Institution                             | Rank | 2017  | 2018  | 2019               |   |   |           |            |     |             |                            |       |
|---|------|-------|-------|--------------------|---|---|-----------|------------|-----|-------------|----------------------------|-------|
|   |      |       |       | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law | Social work | Visual and performing arts | Other |
| California State Polytechnic U., Pomona | 264  | 6     | 116   | 424                | 19  | 0   | 0         | 0          | 0   | 0           | 0                          | 405   |
| U. North Georgia                        | 265  | 414   | 815   | 415                | 0   | 0   | 212       | 203        | 0   | 0           | 0                          | 0     |
| Northeastern Illinois U.                | 266  | 598   | 565   | 400                | 0   | 0   | 326       | 0          | 20  | 0           | 0                          | 54    |
| U. Massachusetts, Dartmouth             | 267  | 252   | 561   | 396                | 0   | 0   | 396       | 0          | 0   | 0           | 0                          | 0     |
| U. Oklahoma, Tulsa                      | 268  | 93    | 74    | 388                | 0   | 0   | 388       | 0          | 0   | 0           | 0                          | 0     |
| U. Hawaii, Manoa                        | 269  | 587   | 632   | 384                | 0   | 119   | 0         | 0          | 5   | 131         | 0                          | 129   |
| Hofstra U.                              | 270  | 164   | 215   | 381                | 0   | 0   | 358       | 23         | 0   | 0           | 0                          | 0     |
| Chapman U.                              | 271  | 184   | 277   | 379                | 0   | 262   | 0         | 0          | 114 | 0           | 0                          | 3     |
| Indiana State U.                        | 272  | 306   | 298   | 369                | 0   | 0   | 369       | 0          | 0   | 0           | 0                          | 0     |
| Bucknell U.                             | 273  | 66 i  | 63    | 361                | 0   | 0   | 0         | 361        | 0   | 0           | 0                          | 0     |
| U. Washington, Tacoma                   | 274  | 1,315 | 707   | 357                | 0   | 0   | 338       | 0          | 0   | 19          | 0                          | 0     |
| U.S. Air Force Academy                  | 275  | 5,398 | 323   | 354                | 0   | 0   | 0         | 108        | 0   | 0           | 0                          | 246   |
| Ohio U.                                 | 276  | 376   | 449   | 349                | 0   | 212   | 29        | 0          | 0   | 0           | 0                          | 108   |
| U. California, Merced                   | 277  | 263   | 344   | 337                | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 337   |
| Saint Louis U.                          | 278  | 431   | 427   | 334                | 0   | 5   | 211       | 34         | 6   | 74          | 0                          | 4     |
| Idaho State U.                          | 279  | 100   | 344   | 325                | 0   | 0   | 289       | 24         | 0   | 0           | 0                          | 12    |
| Ball State U.                           | 280  | 448   | 279   | 322                | 79  | 0   | 232       | 0          | 11  | 0           | 0                          | 0     |
| U. Colorado Colorado Springs            | 281  | 258   | 360   | 320                | 0   | 0   | 5         | 0          | 77  | 0           | 0                          | 238   |
| Northwest Indian C.                     | 282  | ne    | 388   | 319                | 0   | 0   | 52        | 0          | 0   | 0           | 0                          | 267   |
| U. South Carolina, Aiken                | 283  | 0     | 0     | 316                | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 316   |
| Alabama A&M U.                          | 284  | 564 i | 437 i | 309 i              | 19 i  | 8 i   | 169 i     | 10 i       | 7 i | 30 i        | 1 i                        | 65 i  |
| Florida Institute of Technology         | 284  | 25    | 178   | 309                | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 309   |
| U. Texas Rio Grande Valley              | 284  | 42    | 22    | 309                | 11  | 0   | 181       | 0          | 0   | 0           | 0                          | 117   |
| Roger Williams U.                       | 287  | 841   | 198   | 307                | 0   | 0   | 51        | 0          | 256 | 0           | 0                          | 0     |
| CUNY, C. Staten Island                  | 288  | 19    | 245 i | 301                | 14  | 0   | 243       | 44         | 0   | 0           | 0                          | 0     |
| Langston U.                             | 289  | 366 i | 328 i | 291                | 0   | 0   | 228       | 0          | 0   | 0           | 0                          | 63    |
| West Texas A&M U.                       | 290  | 230   | 225   | 287                | 0   | 0   | 287       | 0          | 0   | 0           | 0                          | 0     |
| U. Southern Maine                       | 291  | 0     | 125   | 276                | 0   | 0   | 84        | 0          | 40  | 0           | 0                          | 152   |
| U. Puerto Rico, Rio Piedras             | 292  | 375   | 202   | 273                | 0   | 0   | 1         | 0          | 0   | 0           | 0                          | 272   |
| Wake Forest U.                          | 293  | 255   | 332   | 263                | 0   | 131   | 117       | 0          | 0   | 0           | 15                         | 0     |
| Western Kentucky U.                     | 293  | 523   | 302   | 263                | 88  | 0   | 145       | 20         | 0   | 10          | 0                          | 0     |
| Louisiana Tech U.                       | 295  | 170   | 91    | 261                | 261   | 0   | 0         | 0          | 0   | 0           | 0                          | 0     |

TABLE 58  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019**

(Dollars in thousands)

| Institution                      | Rank | 2017  | 2018 | 2019               |   |   |           |            |     |             |                            |       |
|----------------------------------|------|-------|------|--------------------|---|---|-----------|------------|-----|-------------|----------------------------|-------|
|                                  |      |       |      | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law | Social work | Visual and performing arts | Other |
| U. Tulsa                         | 296  | 89    | 175  | 251                | 0   | 0   | 93        | 0          | 0   | 0           | 158                        | 0     |
| Delaware State U.                | 297  | 784   | 968  | 243                | 122   | 0   | 0         | 73         | 0   | 48          | 0                          | 0     |
| Drake U.                         | 297  | 286   | 437  | 243                | 0   | 0   | 226       | 0          | 17  | 0           | 0                          | 0     |
| Niagara U.                       | 299  | 181   | 209  | 241                | 0   | 0   | 5         | 236        | 0   | 0           | 0                          | 0     |
| Duquesne U.                      | 300  | 800   | 818  | 236                | 179   | 0   | 19        | 7          | 30  | 0           | 0                          | 1     |
| U. Guam                          | 301  | 16    | 172  | 235                | 0   | 0   | 214       | 0          | 0   | 0           | 0                          | 21    |
| Catholic U. of America           | 302  | 493   | 326  | 234                | 0   | 0   | 0         | 0          | 95  | 83          | 0                          | 56    |
| CUNY, Graduate Center            | 303  | 655   | 279  | 224                | 0   | 0   | 144       | 80         | 0   | 0           | 0                          | 0     |
| California State U., Fullerton   | 304  | 372   | 371  | 223                | 18  | 0   | 94        | 0          | 0   | 0           | 16                         | 95    |
| Michigan Technological U.        | 305  | 151   | 240  | 221                | 0   | 0   | 221       | 0          | 0   | 0           | 0                          | 0     |
| U. Missouri, Kansas City         | 306  | 151   | 200  | 220                | 0   | 3   | 94        | 5          | 0   | 5           | 0                          | 113   |
| St. Cloud State U.               | 307  | 1     | 35   | 218                | 0   | 0   | 218       | 0          | 0   | 0           | 0                          | 0     |
| Southeastern Louisiana U.        | 308  | 188   | 216  | 217                | 217   | 0   | 0         | 0          | 0   | 0           | 0                          | 0     |
| Central Connecticut State U.     | 309  | 23    | ne   | 212                | 0   | 0   | 212       | 0          | 0   | 0           | 0                          | 0     |
| Loyola Marymount U.              | 310  | 178   | 424  | 203                | 0   | 0   | 69        | 0          | 0   | 0           | 0                          | 134   |
| Clarkson U.                      | 311  | 281   | 389  | 201                | 153   | 0   | 1         | 47         | 0   | 0           | 0                          | 0     |
| California State U., Los Angeles | 312  | 113   | 56   | 200                | 0   | 52  | 148       | 0          | 0   | 0           | 0                          | 0     |
| Doane U.                         | 312  | ne    | 140  | 200                | 0   | 0   | 200       | 0          | 0   | 0           | 0                          | 0     |
| California State U., Long Beach  | 314  | 94    | 317  | 199                | 0   | 53  | 0         | 74         | 0   | 0           | 0                          | 72    |
| Fayetteville State U.            | 315  | 120   | 194  | 194                | 69  | 0   | 0         | 0          | 0   | 120         | 5                          | 0     |
| Long Island U.                   | 316  | 432   | 513  | 192                | 0   | 136   | 0         | 0          | 0   | 0           | 0                          | 56    |
| U. Ana G. Mendez, Cupey          | 317  | 1,100 | 774  | 191                | 0   | 0   | 191       | 0          | 0   | 0           | 0                          | 0     |
| Morehead State U.                | 318  | 111   | 167  | 180                | 0   | 12  | 18        | 150        | 0   | 0           | 0                          | 0     |
| U. Central Oklahoma              | 318  | 318   | 79   | 180                | 0   | 0   | 53        | 0          | 0   | 0           | 0                          | 127   |
| Marquette U.                     | 320  | 0     | 221  | 179                | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 179   |
| U. Missouri, Saint Louis         | 321  | 530   | 475  | 176                | 39  | 0   | 78        | 59         | 0   | 0           | 0                          | 0     |
| Swarthmore C.                    | 322  | 49    | 243  | 172                | 106   | 0   | 61        | 5          | 0   | 0           | 0                          | 0     |
| Barnard C.                       | 323  | 132   | 200  | 170                | 0   | 0   | 170       | 0          | 0   | 0           | 0                          | 0     |
| Missouri State U.                | 324  | 111   | 18   | 169                | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 169   |
| U. Akron                         | 324  | 271   | 190  | 169                | 0   | 0   | 146       | 0          | 0   | 0           | 0                          | 23    |
| Eastern Michigan U.              | 326  | 469   | 385  | 164                | 45  | 0   | 97        | 22         | 0   | 0           | 0                          | 0     |

TABLE 58  
 Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

| Institution                                      | Rank | 2017  | 2018  | 2019               |   |   |           |            |     |             |                            |       |
|--|------|-------|-------|--------------------|---|---|-----------|------------|-----|-------------|----------------------------|-------|
|  |      |       |       | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law | Social work | Visual and performing arts | Other |
| Albany State U.                                  | 327  | 184   | 190   | 162                | 0   | 0   | 162       | 0          | 0   | 0           | 0                          | 0     |
| Tennessee Technological U.                       | 328  | 161   | 121   | 157                | 0   | 0   | 157       | 0          | 0   | 0           | 0                          | 0     |
| Rowan U.   | 329  | 0     | 34    | 155                | 0   | 0   | 71        | 69         | 15  | 0           | 0                          | 0     |
| U. Massachusetts, central office                 | 329  | 319   | 235   | 155                | 0   | 0   | 155       | 0          | 0   | 0           | 0                          | 0     |
| Wellesley C.                                     | 329  | 90    | 279   | 155                | 0   | 0   | 139       | 0          | 0   | 16          | 0                          | 0     |
| South Dakota State U.                            | 332  | 63    | 116   | 153                | 0   | 30  | 35        | 2          | 0   | 0           | 0                          | 86    |
| Xavier U. Louisiana                              | 332  | 38    | 194   | 153                | 1   | 61  | 91        | 0          | 0   | 0           | 0                          | 0     |
| Creighton U.                                     | 334  | 159 i | 120 i | 152 i              | 9 i   | 5 i   | 78 i      | 11 i       | 4 i | 24 i        | 3 i                        | 18 i  |
| Alaska Pacific U.                                | 335  | 413   | 219   | 147                | 0   | 0   | 147       | 0          | 0   | 0           | 0                          | 0     |
| California Polytechnic State U., San Luis Obispo | 336  | 500   | 300   | 146                | 10  | 85  | 37        | 5          | 0   | 0           | 0                          | 9     |
| Fisk U.  | 337  | 0     | 0     | 142                | 0   | 0   | 0         | 142        | 0   | 0           | 0                          | 0     |
| U.S. Naval Academy                               | 338  | 17    | 0     | 140                | 0   | 0   | 0         | 140        | 0   | 0           | 0                          | 0     |
| Clark Atlanta U.                                 | 339  | 59    | 23    | 139                | 0   | 0   | 0         | 0          | 0   | 139         | 0                          | 0     |
| CUNY, Brooklyn C.                                | 340  | 276   | 131   | 138 i              | 0 i   | 0 i   | 90 i      | 48 i       | 0 i | 0 i         | 0 i                        | 0 i   |
| Western Washington U.                            | 341  | 1,055 | 509   | 136                | 0   | 16  | 68        | 0          | 0   | 0           | 0                          | 52    |
| DePaul U.  | 342  | 31    | 36    | 133                | 0   | 0   | 133       | 0          | 0   | 0           | 0                          | 0     |
| California State U., Bakersfield                 | 343  | 50    | 0     | 131                | 0   | 0   | 131       | 0          | 0   | 0           | 0                          | 0     |
| Villanova U.                                     | 344  | 80    | 13    | 129                | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 129   |
| U. Michigan, Dearborn                            | 345  | 70    | 107   | 128                | 0   | 0   | 128       | 0          | 0   | 0           | 0                          | 0     |
| California State U., Dominguez Hills             | 346  | 485   | 282   | 126                | 0   | 0   | 126       | 0          | 0   | 0           | 0                          | 0     |
| Colorado C.                                      | 347  | 160   | 170   | 122                | 0   | 0   | 122       | 0          | 0   | 0           | 0                          | 0     |
| U. Central Arkansas                              | 348  | 53    | 149   | 115                | 0   | 2   | 111       | 0          | 0   | 0           | 0                          | 2     |
| Willamette U.                                    | 349  | 289   | 65    | 114                | 0   | 0   | 74        | 0          | 0   | 0           | 0                          | 40    |
| Saint Joseph's U.                                | 350  | 110   | 89    | 112                | 0   | 0   | 112       | 0          | 0   | 0           | 0                          | 0     |
| Norfolk State U.                                 | 351  | 0     | 35    | 111                | 0   | 0   | 68        | 0          | 0   | 0           | 0                          | 43    |
| SUNY, C. of Environmental Science and Forestry   | 351  | 72    | 19    | 111                | 0   | 18  | 0         | 0          | 0   | 39          | 0                          | 54    |
| Morgan State U.                                  | 353  | 113   | 153   | 108                | 0   | 0   | 44        | 0          | 0   | 1           | 0                          | 63    |
| Jackson State U.                                 | 354  | 1,139 | 395   | 103                | 0   | 0   | 103       | 0          | 0   | 0           | 0                          | 0     |
| Hamilton C.                                      | 355  | 87    | 51    | 102                | 0   | 0   | 0         | 102        | 0   | 0           | 0                          | 0     |





TABLE 58  
 Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

| Institution                  | Rank | 2017  | 2018 | 2019               |   |   |           |            |     |             |                            |       |
|------------------------------|------|-------|------|--------------------|---|---|-----------|------------|-----|-------------|----------------------------|-------|
|                              |      |       |      | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law | Social work | Visual and performing arts | Other |
| U. Wisconsin-Green Bay       | 413  | 62 i  | 20 i | 29 i               | 2 i   | 1 i   | 16 i      | 1 i        | 0 i | 3 i         | 0 i                        | 6 i   |
| U. Detroit Mercy             | 415  | 0     | 0    | 28                 | 0   | 0   | 0         | 0          | 28  | 0           | 0                          | 0     |
| U. Vermont                   | 416  | 11    | 4    | 27                 | 0   | 0   | 9         | 18         | 0   | 0           | 0                          | 0     |
| Calvin U.                    | 417  | 0     | 31   | 25                 | 0   | 0   | 0         | 25         | 0   | 0           | 0                          | 0     |
| SUNY, Polytechnic Institute  | 418  | 5     | 42   | 23                 | 0   | 0   | 0         | 23         | 0   | 0           | 0                          | 0     |
| SUNY, Buffalo State          | 419  | 17    | 17   | 22                 | 0   | 0   | 5         | 0          | 0   | 0           | 0                          | 17    |
| SUNY, Geneseo                | 419  | 0     | 0    | 22                 | 0   | 0   | 0         | 22         | 0   | 0           | 0                          | 0     |
| Elon U.                      | 421  | 145   | 24   | 20                 | 0   | 0   | 20        | 0          | 0   | 0           | 0                          | 0     |
| Keck Graduate Institute      | 422  | 0 i   | 20 i | 19 i               | 7 i   | 0 i   | 0 i       | 9 i        | 0 i | 0 i         | 3 i                        | 0 i   |
| U. San Diego                 | 423  | 0     | 35   | 17                 | 0   | 0   | 4         | 0          | 13  | 0           | 0                          | 0     |
| Georgia Southern U.          | 424  | 152   | 47   | 15                 | 0   | 0   | 15        | 0          | 0   | 0           | 0                          | 0     |
| St. Olaf C.                  | 424  | 28    | 46   | 15                 | 0   | 0   | 9         | 6          | 0   | 0           | 0                          | 0     |
| Babson C.                    | 426  | 0     | 12   | 14                 | 14  | 0   | 0         | 0          | 0   | 0           | 0                          | 0     |
| U. Illinois, Springfield     | 426  | 364   | 1    | 14                 | 0   | 0   | 0         | 14         | 0   | 0           | 0                          | 0     |
| U. of the Pacific            | 426  | 71    | 84   | 14                 | 0   | 0   | 14        | 0          | 0   | 0           | 0                          | 0     |
| Bowdoin C.                   | 429  | 1     | 39   | 13                 | 0   | 0   | 0         | 13         | 0   | 0           | 0                          | 0     |
| U. Nebraska, Kearney         | 429  | 72    | 61   | 13                 | 0   | 0   | 13        | 0          | 0   | 0           | 0                          | 0     |
| Azusa Pacific U.             | 431  | 0     | 0    | 12                 | 0   | 0   | 12        | 0          | 0   | 0           | 0                          | 0     |
| Hope C.                      | 431  | 12    | 12   | 12                 | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 12    |
| Mercyhurst U.                | 431  | 213 i | ne   | 12 i               | 1 i   | 0 i   | 6 i       | 1 i        | 0 i | 2 i         | 0 i                        | 2 i   |
| West Chester U. Pennsylvania | 434  | 6     | 246  | 11                 | 0   | 0   | 0         | 0          | 0   | 11          | 0                          | 0     |
| Biola U.                     | 435  | 9 i   | 11 i | 10 i               | 1 i   | 0 i   | 5 i       | 1 i        | 0 i | 2 i         | 0 i                        | 1 i   |
| Lawrence Technological U.    | 435  | 198   | 22   | 10                 | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 10    |
| Arkansas State U., Jonesboro | 437  | 0     | 0    | 9                  | 0   | 0   | 0         | 0          | 0   | 0           | 9                          | 0     |
| Western Illinois U.          | 437  | 0     | 16   | 9                  | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 9     |
| Union C., Schenectady        | 439  | 0     | 13   | 8                  | 0   | 0   | 0         | 8          | 0   | 0           | 0                          | 0     |
| Saginaw Valley State U.      | 440  | 26    | 12   | 7                  | 0   | 0   | 0         | 7          | 0   | 0           | 0                          | 0     |
| Clark U.                     | 441  | 48    | 13   | 6                  | 0   | 0   | 6         | 0          | 0   | 0           | 0                          | 0     |
| U. Wisconsin-Eau Claire      | 441  | 30    | 15   | 6                  | 0   | 0   | 0         | 3          | 0   | 0           | 0                          | 3     |
| Smith C.                     | 443  | 97    | 17   | 5                  | 0   | 0   | 0         | 5          | 0   | 0           | 0                          | 0     |
| Chicago State U.             | 444  | ne    | 0    | 4                  | 0   | 0   | 4         | 0          | 0   | 0           | 0                          | 0     |
| Fort Hays State U.           | 444  | ne    | ne   | 4                  | 0   | 0   | 4         | 0          | 0   | 0           | 0                          | 0     |

TABLE 58  
**Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&E fields: FYs 2017–19 and by subfield for FY 2019**

(Dollars in thousands)

| Institution                               | Rank | 2017           | 2018   | 2019               |   |   |           |            |     |             |                            |       |
|---|------|----------------|--------|--------------------|---|---|-----------|------------|-----|-------------|----------------------------|-------|
|   |      |                |        | All non-S&E fields | Business management and business administration | Communication and communications technologies | Education | Humanities | Law | Social work | Visual and performing arts | Other |
| Haverford C.                              | 444  | 0              | 5      | 4                  | 0   | 0   | 4         | 0          | 0   | 0           | 0                          | 0     |
| Stockton U.                               | 444  | ne             | 0      | 4                  | 0   | 0   | 0         | 0          | 0   | 4           | 0                          | 0     |
| California State U., Fresno               | 448  | 349            | 44     | 3                  | 0   | 0   | 2         | 1          | 0   | 0           | 0                          | 0     |
| Pennsylvania State U., Behrend            | 448  | 12             | 0      | 3                  | 0   | 1   | 0         | 1          | 0   | 1           | 0                          | 0     |
| Towson U.                                 | 448  | 146            | 0      | 3                  | 0   | 0   | 3         | 0          | 0   | 0           | 0                          | 0     |
| Whitman C.                                | 448  | ne             | ne     | 3                  | 0   | 0   | 0         | 0          | 0   | 0           | 3                          | 0     |
| Albany C. of Pharmacy and Health Sciences | 452  | 0              | 2      | 2                  | 0   | 0   | 2         | 0          | 0   | 0           | 0                          | 0     |
| Dakota State U.                           | 452  | 0              | 0      | 2                  | 0   | 0   | 0         | 2          | 0   | 0           | 0                          | 0     |
| Franklin and Marshall C.                  | 452  | 21             | 0      | 2                  | 0   | 0   | 0         | 2          | 0   | 0           | 0                          | 0     |
| Pomona C.                                 | 452  | 0              | 1      | 2                  | 0   | 0   | 0         | 2          | 0   | 0           | 0                          | 0     |
| U. Wisconsin-La Crosse                    | 452  | 0              | 0      | 2                  | 0   | 2   | 0         | 0          | 0   | 0           | 0                          | 0     |
| Fort Valley State U.                      | 457  | 0              | 0      | 1                  | 0   | 1   | 0         | 0          | 0   | 0           | 0                          | 0     |
| Kentucky State U.                         | 457  | 0 <sup>i</sup> | 0      | 1                  | 1   | 0   | 0         | 0          | 0   | 0           | 0                          | 0     |
| All other surveyed institutions           | -    | 23,082         | 18,787 | 0                  | 0   | 0   | 0         | 0          | 0   | 0           | 0                          | 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.

S&E = science and engineering.

<sup>a</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>b</sup> Johns Hopkins University includes the Applied Physics Laboratory, with zero in federally financed non-S&E R&D expenditures in FY 2019.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2019 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.