

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|---|------|----------------------|--------------------|----------------------------|-------------------|-----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| All institutions | - | 83,496,348 | 44,455,265 | 4,495,452 | 21,109,703 | 5,053,576 | 5,683,937 | 2,698,415 |
| Johns Hopkins U. ^a | 1 | 2,917,436 | 2,482,130 | 7,526 | 152,043 | 105,805 | 166,571 | 3,361 |
| U. Michigan, Ann Arbor | 2 | 1,675,805 | 886,851 | 2,706 | 608,028 | 98,997 | 68,758 | 10,465 |
| U. California, San Francisco | 3 | 1,595,098 | 671,047 | 30,392 | 394,740 | 103,463 | 232,094 | 163,362 |
| U. Pennsylvania | 4 | 1,506,285 | 717,359 | 16,182 | 491,734 | 158,554 | 119,464 | 2,992 |
| U. Washington, Seattle | 5 | 1,425,601 | 992,643 | 27,125 | 117,341 | 58,211 | 194,296 | 35,985 |
| U. California, San Diego | 6 | 1,353,763 | 698,925 | 44,786 | 301,297 | 86,865 | 99,338 | 122,552 |
| U. California, Los Angeles | 7 | 1,306,376 | 600,714 | 70,016 | 285,010 | 76,217 | 197,337 | 77,082 |
| U. Wisconsin-Madison | 8 | 1,297,331 | 608,925 | 94,861 | 415,634 | 26,518 | 115,774 | 35,619 |
| Harvard U. | 9 | 1,239,736 | 618,405 | 980 | 381,597 | 48,168 | 166,590 | 23,996 |
| Duke U. | 10 | 1,226,517 | 709,705 | 498 | 154,081 | 236,292 | 105,775 | 20,166 |
| Stanford U. | 11 | 1,204,116 | 738,957 | 38,011 | 124,706 | 136,065 | 159,040 | 7,337 |
| U. North Carolina, Chapel Hill | 12 | 1,153,773 | 720,613 | 9,455 | 293,561 | 44,962 | 67,773 | 17,409 |
| Cornell U. | 13 | 1,144,534 | 525,182 | 92,698 | 227,319 | 56,461 | 118,002 | 124,872 |
| U. Maryland ^b | 14 | 1,096,600 | 696,880 | 34,241 | 279,371 | 30,775 | 50,561 | 4,772 |
| U. Pittsburgh, Pittsburgh | 15 | 1,080,951 | 677,559 | 9,702 | 187,204 | 25,312 | 67,014 | 114,160 |
| Yale U. | 16 | 1,072,309 | 576,776 | 8,038 | 318,201 | 74,583 | 86,495 | 8,216 |
| U. Minnesota, Twin Cities | 17 | 1,013,112 | 494,549 | 79,587 | 321,652 | 50,423 | 40,928 | 25,973 |
| Massachusetts Institute of Technology | 18 | 1,009,466 | 489,345 | 2,713 | 116,760 | 196,810 | 107,962 | 95,876 |
| Columbia U. in the City of New York | 19 | 1,003,615 | 736,536 | 7,977 | 74,951 | 78,227 | 103,544 | 2,380 |
| U. Texas M. D. Anderson Cancer Center | 20 | 969,496 | 176,156 | 258,019 | 214,509 | 156,237 | 28,010 | 136,565 |
| Georgia Institute of Technology | 21 | 960,167 | 716,207 | 92,591 | 70,898 | 66,782 | 13,392 | 297 |
| Texas A&M U., College Station and Health Science Center | 22 | 952,156 | 359,609 | 190,465 | 274,537 | 41,351 | 59,798 | 26,396 |
| Pennsylvania State U., University Park and Hershey Medical Center | 23 | 949,679 | 600,489 | 51,658 | 207,208 | 32,949 | 56,184 | 1,191 |
| New York U. | 24 | 934,720 | 436,850 | 22,939 | 229,172 | 50,280 | 80,137 | 115,342 |
| Ohio State U. | 25 | 929,250 | 497,651 | 62,752 | 136,923 | 157,885 | 49,679 | 24,360 |
| U. Florida | 26 | 928,639 | 387,906 | 162,626 | 257,870 | 36,623 | 47,629 | 35,985 |
| U. Southern California | 27 | 909,683 | 543,607 | 13,301 | 189,168 | 47,241 | 50,917 | 65,449 |
| Washington U., Saint Louis | 28 | 887,088 | 543,508 | 963 | 157,727 | 96,311 | 87,106 | 1,473 |
| Northwestern U. | 29 | 857,069 | 502,300 | 14 | 243,099 | 53,528 | 50,647 | 7,481 |
| U. California, Davis | 30 | 804,282 | 374,707 | 66,894 | 206,406 | 51,284 | 47,250 | 57,741 |
| U. California, Berkeley | 31 | 802,931 | 347,601 | 35,002 | 166,865 | 75,009 | 128,481 | 49,973 |
| Emory U. | 32 | 794,928 | 424,461 | 5,392 | 239,403 | 50,408 | 72,787 | 2,477 |
| Vanderbilt U. and Vanderbilt U. Medical Center | 33 | 776,937 | 492,808 | 1,268 | 184,711 | 60,971 | 34,258 | 2,921 |
| U. Arizona | 34 | 734,270 | 327,025 | 26,071 | 220,594 | 22,854 | 33,423 | 104,303 |
| Michigan State U. | 35 | 725,708 | 331,148 | 48,535 | 296,991 | 14,207 | 19,282 | 15,545 |
| Icahn School of Medicine at Mount Sinai | 36 | 722,241 | 443,745 | 9,191 | 134,825 | 69,816 | 56,296 | 8,368 |
| U. Texas, Austin | 37 | 696,111 | 407,981 | 21,573 | 144,157 | 75,638 | 40,388 | 6,374 |
| U. Illinois, Urbana-Champaign | 38 | 677,523 | 382,206 | 25,352 | 185,282 | 40,128 | 24,596 | 19,959 |
| Indiana U., Bloomington | 39 | 668,157 | 308,586 | 4,772 | 263,300 | 26,165 | 64,916 | 418 |
| Purdue U., West Lafayette | 40 | 663,927 | 249,831 | 38,744 | 242,643 | 60,411 | 36,497 | 35,801 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|---|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Rutgers, State U. New Jersey, New Brunswick | 41 | 657,249 | 297,609 | 77,809 | 131,158 | 42,618 | 50,510 | 57,545 |
| Baylor C. of Medicine | 42 | 651,920 | 309,354 | 32,232 | 193,449 | 31,149 | 85,736 | 0 |
| Arizona State U. | 43 | 639,637 | 267,087 | 36,266 | 233,959 | 17,112 | 61,749 | 23,464 |
| U. Virginia, Charlottesville | 44 | 613,938 | 276,335 | 7,277 | 211,202 | 25,830 | 36,059 | 57,235 |
| U. Alabama, Birmingham | 45 | 607,863 | 398,403 | 11,434 | 106,085 | 60,048 | 31,893 | 0 |
| U. Utah | 46 | 601,133 | 302,585 | 6,199 | 217,878 | 39,084 | 31,700 | 3,687 |
| U. Colorado Denver and Anschutz Medical Campus | 47 | 542,732 | 353,021 | 24,979 | 53,541 | 50,510 | 51,586 | 9,095 |
| Virginia Polytechnic Institute and State U. | 48 | 541,969 | 209,607 | 54,131 | 221,817 | 43,433 | 7,097 | 5,884 |
| North Carolina State U. | 49 | 541,100 | 228,945 | 123,196 | 127,691 | 55,085 | 5,749 | 434 |
| Boston U. | 50 | 534,205 | 318,511 | 395 | 149,767 | 21,793 | 41,622 | 2,117 |
| U. Cincinnati | 51 | 529,796 | 252,892 | 6,716 | 137,969 | 40,435 | 65,864 | 25,920 |
| U. Colorado Boulder | 52 | 513,822 | 412,691 | 5,171 | 30,502 | 9,389 | 16,767 | 39,302 |
| U. Iowa | 53 | 508,353 | 252,563 | 6,290 | 207,385 | 22,153 | 19,962 | 0 |
| U. Texas Southwestern Medical Center | 54 | 496,697 | 203,544 | 79,363 | 68,457 | 31,317 | 59,096 | 54,920 |
| U. Georgia | 55 | 477,536 | 159,948 | 53,931 | 225,620 | 11,610 | 14,581 | 11,846 |
| U. Chicago | 56 | 459,171 | 332,776 | 87 | 44,762 | 40,457 | 40,694 | 395 |
| U. California, Irvine | 57 | 448,967 | 217,094 | 16,787 | 119,130 | 26,292 | 28,066 | 41,598 |
| Case Western Reserve U. | 58 | 438,994 | 357,549 | 1,771 | 44,093 | 8,363 | 23,865 | 3,353 |
| Scripps Research Institute | 59 | 427,734 | 267,122 | 4,347 | 76,306 | 39,161 | 40,798 | 0 |
| Uniformed Services U. of the Health Sciences | 60 | 417,300 | 297,808 | 0 | 95,062 | 0 | 24,430 | 0 |
| Oregon Health and Science U. | 61 | 415,629 | 298,227 | 80 | 38,139 | 36,000 | 42,653 | 530 |
| SUNY, U. Buffalo | 62 | 413,817 | 182,983 | 22,439 | 134,258 | 31,802 | 23,478 | 18,857 |
| U. Kentucky | 63 | 410,581 | 192,945 | 37,544 | 125,639 | 11,297 | 14,018 | 29,138 |
| California Institute of Technology | 64 | 399,931 | 287,198 | 1,367 | 42,683 | 15,052 | 29,267 | 24,364 |
| Colorado State U., Fort Collins | 65 | 398,477 | 284,482 | 18,401 | 57,160 | 13,089 | 17,821 | 7,524 |
| U. Rochester | 66 | 393,960 | 306,551 | 2,598 | 40,515 | 24,370 | 15,256 | 4,670 |
| U. South Florida, Tampa | 67 | 391,325 | 181,882 | 12,787 | 161,641 | 15,408 | 15,108 | 4,499 |
| Princeton U. | 68 | 385,739 | 193,453 | 704 | 80,414 | 17,701 | 55,994 | 37,473 |
| U. Illinois, Chicago | 69 | 382,949 | 208,603 | 7,828 | 122,535 | 13,892 | 22,626 | 7,465 |
| Washington State U. | 70 | 369,333 | 158,982 | 51,397 | 132,121 | 13,984 | 8,309 | 4,540 |
| U. Miami | 71 | 360,716 | 212,023 | 12,804 | 67,707 | 30,997 | 35,782 | 1,403 |
| Carnegie Mellon U. | 72 | 359,720 | 197,978 | 2,593 | 107,841 | 36,414 | 7,887 | 7,007 |
| Iowa State U. | 73 | 358,474 | 147,866 | 43,041 | 129,709 | 23,851 | 10,679 | 3,328 |
| SUNY, Polytechnic Institute | 74 | 352,889 | 38,245 | 189,201 | 12,963 | 110,306 | 1,301 | 873 |
| U. Kansas | 75 | 352,643 | 169,694 | 29,122 | 107,078 | 22,073 | 24,168 | 508 |
| Rockefeller U. | 76 | 351,089 | 84,566 | 484 | 224,310 | 7,518 | 34,018 | 193 |
| Dartmouth C. and Dartmouth Hitchcock Medical Center | 77 | 342,142 | 154,597 | 1,253 | 154,896 | 6,182 | 19,236 | 5,978 |
| Florida State U. | 78 | 329,205 | 149,784 | 4,635 | 156,893 | 2,331 | 7,687 | 7,875 |
| U. Nebraska, Lincoln | 79 | 316,820 | 109,954 | 55,969 | 118,095 | 18,157 | 4,893 | 9,752 |
| U. Oklahoma, Norman and Health Science Center | 80 | 302,679 | 164,855 | 35,137 | 74,505 | 14,954 | 9,041 | 4,187 |
| Albert Einstein C. of Medicine | 81 | 298,824 | 202,513 | 2,127 | 79,274 | 2,778 | 12,132 | 0 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|---|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Louisiana State U., Baton Rouge | 82 | 296,497 | 88,721 | 67,140 | 107,220 | 12,178 | 12,570 | 8,668 |
| Medical U. South Carolina | 83 | 295,600 | 153,226 | 4,779 | 94,830 | 19,855 | 12,380 | 10,530 |
| U. Connecticut | 84 | 285,764 | 159,220 | 7,609 | 85,183 | 11,802 | 15,753 | 6,197 |
| Temple U. | 85 | 284,301 | 161,673 | 6,508 | 72,826 | 17,849 | 18,392 | 7,053 |
| Utah State U. | 86 | 283,917 | 220,504 | 23,310 | 24,814 | 7,063 | 630 | 7,596 |
| U. Massachusetts, Medical School | 87 | 281,507 | 197,388 | 477 | 43,238 | 16,386 | 16,933 | 7,085 |
| U. Hawaii, Manoa | 88 | 280,416 | 167,816 | 20,016 | 76,455 | 1,846 | 12,675 | 1,608 |
| U. Missouri, Columbia | 89 | 278,793 | 123,252 | 6,296 | 126,833 | 6,551 | 7,785 | 8,076 |
| U. Texas Health Science Center, Houston | 90 | 271,525 | 132,647 | 38,516 | 43,586 | 20,549 | 22,721 | 13,506 |
| George Washington U. | 91 | 269,799 | 155,697 | 1,159 | 64,471 | 4,123 | 33,776 | 10,573 |
| Mississippi State U. | 92 | 264,526 | 104,738 | 77,562 | 68,709 | 3,882 | 8,220 | 1,415 |
| Oregon State U. | 93 | 263,830 | 168,571 | 47,392 | 26,530 | 5,833 | 2,564 | 12,940 |
| SUNY, Stony Brook U. | 94 | 260,813 | 144,618 | 12,674 | 85,067 | 5,739 | 9,305 | 3,410 |
| Brown U. | 95 | 256,954 | 178,460 | 33 | 53,599 | 3,893 | 15,371 | 5,598 |
| Virginia Commonwealth U. | 96 | 255,648 | 142,293 | 27,123 | 60,805 | 9,959 | 15,468 | 0 |
| U. Tennessee, Knoxville | 97 | 247,693 | 123,434 | 14,104 | 98,238 | 6,142 | 2,731 | 3,044 |
| Medical C. Wisconsin | 98 | 244,752 | 119,036 | 621 | 77,429 | 22,323 | 18,986 | 6,357 |
| Wayne State U. | 99 | 244,217 | 118,043 | 10,568 | 81,510 | 6,995 | 22,182 | 4,919 |
| U. California, Santa Barbara | 100 | 243,778 | 118,517 | 4,592 | 49,052 | 19,264 | 32,192 | 20,161 |
| Georgetown U. | 101 | 240,960 | 94,050 | 1,844 | 66,400 | 14,835 | 41,846 | 21,985 |
| U. Notre Dame | 102 | 240,078 | 106,411 | 876 | 89,308 | 9,451 | 15,648 | 18,384 |
| U. New Mexico | 103 | 239,696 | 159,940 | 5,610 | 58,200 | 2,115 | 12,230 | 1,601 |
| Wake Forest U. | 104 | 238,933 | 165,702 | 14,549 | 22,580 | 13,689 | 14,009 | 8,404 |
| Auburn U., Auburn | 105 | 231,619 | 64,333 | 31,171 | 117,941 | 6,232 | 1,413 | 10,529 |
| Woods Hole Oceanographic Institution | 106 | 229,143 | 184,995 | 1,501 | 20,634 | 1,234 | 11,584 | 9,195 |
| Florida International U. | 107 | 225,864 | 96,912 | 14,884 | 102,581 | 1,652 | 8,509 | 1,326 |
| U. Central Florida | 108 | 225,085 | 99,310 | 11,312 | 86,353 | 11,438 | 6,768 | 9,904 |
| U. Massachusetts, Amherst | 109 | 223,177 | 117,359 | 12,409 | 70,889 | 10,026 | 8,986 | 3,508 |
| Clemson U. | 110 | 218,760 | 81,080 | 24,259 | 87,791 | 18,812 | 6,643 | 175 |
| Kansas State U. | 111 | 218,622 | 81,269 | 37,702 | 82,673 | 7,099 | 7,783 | 2,096 |
| Tufts U. | 112 | 213,285 | 146,630 | 1,944 | 22,548 | 11,123 | 27,005 | 4,035 |
| U. Delaware | 113 | 206,270 | 133,020 | 12,379 | 45,490 | 5,944 | 4,556 | 4,881 |
| U. South Carolina, Columbia | 114 | 205,940 | 102,992 | 3,097 | 79,622 | 5,411 | 9,752 | 5,066 |
| Tulane U. | 115 | 196,933 | 104,219 | 4,379 | 53,333 | 4,965 | 17,588 | 12,449 |
| Georgia State U. | 116 | 195,572 | 70,185 | 12,443 | 99,468 | 603 | 12,367 | 506 |
| U. Houston | 117 | 195,398 | 68,523 | 38,963 | 65,710 | 8,597 | 11,270 | 2,335 |
| U. Nebraska, Medical Center | 118 | 194,455 | 102,604 | 12,284 | 37,891 | 9,896 | 15,706 | 16,074 |
| Texas Tech U. | 119 | 193,923 | 35,136 | 23,788 | 104,700 | 16,210 | 13,963 | 126 |
| U. Texas Health Science Center, San Antonio | 120 | 188,483 | 96,502 | 20,807 | 42,551 | 8,499 | 19,715 | 409 |
| West Virginia U. | 121 | 187,512 | 82,353 | 8,972 | 69,819 | 5,808 | 4,779 | 15,781 |
| George Mason U. | 122 | 186,267 | 96,307 | 3,370 | 41,291 | 8,900 | 35,852 | 547 |
| Oklahoma State U., Stillwater | 123 | 184,276 | 39,880 | 23,288 | 107,127 | 13,185 | 698 | 98 |
| Northeastern U. | 124 | 183,998 | 126,762 | 1,926 | 39,442 | 7,629 | 7,788 | 451 |
| Rice U. | 125 | 182,564 | 83,584 | 6,013 | 53,316 | 10,814 | 23,426 | 5,411 |
| SUNY, U. Albany | 126 | 181,531 | 92,709 | 8,784 | 65,357 | 708 | 1,990 | 11,983 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

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|-------------------------------------|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
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| U. Arkansas, Fayetteville | 127 | 180,225 | 50,875 | 53,643 | 61,913 | 7,274 | 6,123 | 397 |
| U. California, Riverside | 128 | 177,655 | 81,151 | 9,195 | 52,805 | 8,305 | 8,609 | 17,590 |
| U. Texas Medical Branch | 129 | 175,372 | 107,806 | 5,054 | 46,065 | 4,639 | 11,808 | 0 |
| U. Louisville | 130 | 173,462 | 87,563 | 8,114 | 48,834 | 7,475 | 7,880 | 13,596 |
| Thomas Jefferson U. | 131 | 170,458 | 74,816 | 3,010 | 56,965 | 18,910 | 9,041 | 7,716 |
| U. Dayton | 132 | 165,343 | 153,328 | 3,395 | 2,502 | 5,356 | 648 | 114 |
| New Jersey Institute of Technology | 133 | 161,232 | 89,846 | 3,268 | 55,507 | 2,511 | 5,099 | 5,001 |
| U. Mississippi | 134 | 158,809 | 73,865 | 3,579 | 73,478 | 2,602 | 3,712 | 1,573 |
| Montana State U., Bozeman | 135 | 154,811 | 88,955 | 17,738 | 39,627 | 1,974 | 4,251 | 2,266 |
| Syracuse U. | 136 | 154,366 | 37,803 | 4,884 | 94,588 | 5,820 | 11,103 | 168 |
| U. Arkansas for Medical Sciences | 137 | 153,135 | 63,498 | 8,991 | 62,472 | 6,877 | 2,756 | 8,541 |
| North Dakota State U. | 138 | 152,381 | 35,322 | 48,566 | 58,902 | 2,166 | 1,444 | 5,981 |
| U. Nevada, Reno | 139 | 152,128 | 62,903 | 9,753 | 70,376 | 2,556 | 2,177 | 4,363 |
| Drexel U. | 140 | 149,481 | 85,278 | 5,287 | 40,179 | 3,888 | 8,949 | 5,900 |
| U. New Hampshire | 141 | 148,980 | 90,241 | 4,648 | 38,163 | 8,680 | 6,422 | 826 |
| U. Alaska, Fairbanks | 142 | 144,457 | 92,964 | 2,874 | 39,572 | 3,333 | 1,753 | 3,961 |
| U. Louisiana, Lafayette | 143 | 144,187 | 34,400 | 17,869 | 31,636 | 48,344 | 11,938 | 0 |
| U. California, Santa Cruz | 144 | 142,958 | 74,669 | 6,280 | 31,144 | 5,452 | 14,838 | 10,575 |
| U. Vermont | 145 | 135,859 | 90,405 | 659 | 31,729 | 3,210 | 8,841 | 1,015 |
| U. Maine | 146 | 129,913 | 51,049 | 19,299 | 48,644 | 4,334 | 4,452 | 2,135 |
| Wichita State U. | 147 | 128,795 | 29,634 | 7,926 | 8,712 | 82,008 | 507 | 8 |
| Cold Spring Harbor Laboratory | 148 | 126,773 | 73,854 | 152 | 32,823 | 1,527 | 18,417 | 0 |
| U. Texas, Dallas | 149 | 126,661 | 48,466 | 12,133 | 38,469 | 4,762 | 22,831 | 0 |
| U. Texas, Arlington | 150 | 123,207 | 41,764 | 16,970 | 51,329 | 5,018 | 6,057 | 2,069 |
| U. Rhode Island | 151 | 115,160 | 73,080 | 10,878 | 25,849 | 4,268 | 427 | 658 |
| U. Idaho | 152 | 113,107 | 51,529 | 37,467 | 18,274 | 1,822 | 1,291 | 2,724 |
| U. North Dakota | 153 | 110,836 | 49,700 | 11,135 | 38,998 | 10,391 | 609 | 3 |
| U. Oregon | 154 | 110,664 | 80,083 | 786 | 22,044 | 295 | 6,505 | 951 |
| U. Alabama, Huntsville | 155 | 109,744 | 85,211 | 1,378 | 21,663 | 1,069 | 301 | 122 |
| U. Texas, El Paso | 156 | 106,809 | 41,261 | 17,507 | 33,594 | 872 | 4,587 | 8,988 |
| U. Montana, Missoula | 157 | 104,665 | 55,566 | 1,283 | 41,293 | 350 | 2,250 | 3,923 |
| SUNY, Binghamton U. | 158 | 104,297 | 24,213 | 6,085 | 68,519 | 3,508 | 1,243 | 729 |
| Rensselaer Polytechnic Institute | 159 | 103,739 | 50,448 | 5,091 | 29,674 | 14,189 | 4,337 | 0 |
| New Mexico State U. | 160 | 101,457 | 58,022 | 20,496 | 12,922 | 1,022 | 3,569 | 5,426 |
| U. Nevada, Las Vegas | 161 | 99,445 | 28,381 | 2,494 | 63,995 | 1,465 | 805 | 2,305 |
| U. Tennessee, Health Science Center | 162 | 96,979 | 42,396 | 4,185 | 23,971 | 3,245 | 12,094 | 11,088 |
| Augusta U. | 163 | 96,502 | 47,031 | 1,809 | 38,530 | 3,081 | 5,525 | 526 |
| Rush U. | 164 | 96,267 | 68,941 | 2,309 | 7,670 | 13,761 | 3,586 | 0 |
| San Diego State U. | 165 | 92,964 | 39,515 | 1,911 | 47,338 | 808 | 1,631 | 1,761 |
| U. Texas, San Antonio | 166 | 84,326 | 34,588 | 12,247 | 27,509 | 5,393 | 2,408 | 2,181 |
| U. Massachusetts, Lowell | 167 | 83,996 | 35,309 | 6,390 | 36,658 | 3,460 | 1,095 | 1,084 |
| U. Alabama, Tuscaloosa | 168 | 83,317 | 37,916 | 9,791 | 30,801 | 2,799 | 977 | 1,033 |
| U. Maryland, Baltimore County | 169 | 80,632 | 56,993 | 6,927 | 13,297 | 1,084 | 1,770 | 561 |
| Michigan Technological U. | 170 | 80,443 | 34,709 | 728 | 36,574 | 7,155 | 247 | 1,030 |
| U. Wyoming | 171 | 80,353 | 52,082 | 4,594 | 17,939 | 3,619 | 1,599 | 520 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

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| Cleveland State U. | 172 | 80,077 | 51,475 | 2,810 | 18,823 | 2,451 | 4,260 | 258 |
| U. North Texas, Denton | 173 | 78,691 | 17,345 | 2,735 | 53,843 | 1,807 | 1,087 | 1,874 |
| U. Southern Mississippi | 174 | 76,464 | 46,924 | 11,882 | 10,344 | 6,073 | 1,144 | 97 |
| U. Tennessee, Knoxville, Institute of Agriculture | 175 | 71,396 | 28,804 | 893 | 35,641 | 2,816 | 1,193 | 2,049 |
| American U. | 176 | 71,053 | 15,229 | 394 | 43,492 | 241 | 11,152 | 545 |
| Colorado School of Mines | 177 | 70,397 | 49,603 | 2,540 | 4,343 | 10,556 | 1,273 | 2,082 |
| U. California, Office of the President | 178 | 67,702 | 319 | 38,703 | 28,574 | 0 | 80 | 26 |
| Indiana U.-Purdue U., Indianapolis | 179 | 67,635 | 27,349 | 976 | 30,077 | 3,479 | 5,652 | 102 |
| Old Dominion U. | 180 | 67,425 | 31,355 | 10,109 | 21,337 | 1,430 | 2,675 | 519 |
| Naval Postgraduate School | 181 | 67,323 | 54,358 | 0 | 12,007 | 522 | 48 | 388 |
| South Dakota State U. | 182 | 66,794 | 29,683 | 15,663 | 4,511 | 1,955 | 4,442 | 10,540 |
| Saint Louis U. | 183 | 66,103 | 34,275 | 1,466 | 17,838 | 4,885 | 6,173 | 1,466 |
| William & Mary | 184 | 64,835 | 31,983 | 3,091 | 22,422 | 1,119 | 4,152 | 2,068 |
| Texas State U. | 185 | 64,554 | 29,614 | 4,871 | 25,361 | 725 | 3,983 | 0 |
| Wright State U. | 186 | 64,208 | 41,428 | 10,917 | 9,377 | 1,303 | 1,108 | 75 |
| U. Massachusetts, Boston | 187 | 62,018 | 25,083 | 2,369 | 28,163 | 1,675 | 4,108 | 620 |
| Boston C. | 188 | 61,956 | 32,475 | 2,163 | 13,596 | 440 | 13,104 | 178 |
| Van Andel Research Institute | 189 | 61,738 | 18,259 | 976 | 29,815 | 466 | 2,798 | 9,424 |
| Brandeis U. | 190 | 60,825 | 41,475 | 195 | 8,461 | 475 | 8,191 | 2,028 |
| Northern Arizona U. | 191 | 58,914 | 35,980 | 7,776 | 13,052 | 552 | 1,434 | 120 |
| U. Memphis | 192 | 58,700 | 18,370 | 7,117 | 29,849 | 1,317 | 1,541 | 506 |
| Rochester Institute of Technology | 193 | 58,175 | 26,359 | 10,835 | 16,939 | 2,271 | 1,007 | 764 |
| U. Maryland Center for Environmental Science | 194 | 56,033 | 17,476 | 25,840 | 10,418 | 940 | 1,267 | 92 |
| East Carolina U. | 195 | 55,611 | 17,428 | 516 | 28,806 | 4,076 | 4,714 | 71 |
| U. Toledo | 196 | 55,006 | 28,273 | 928 | 19,875 | 3,453 | 2,470 | 7 |
| U. Wisconsin-Milwaukee | 197 | 53,773 | 23,342 | 17,335 | 6,836 | 3,508 | 1,071 | 1,681 |
| Ohio U. | 198 | 53,735 | 14,802 | 3,942 | 27,950 | 4,497 | 2,411 | 133 |
| CUNY, City C. | 199 | 52,738 | 33,065 | 7,584 | 10,094 | 490 | 1,033 | 472 |
| U. South Alabama | 200 | 52,540 | 19,947 | 150 | 28,990 | 1,060 | 206 | 2,187 |
| U. Texas Rio Grande Valley | 201 | 52,016 | 13,629 | 6,309 | 27,496 | 218 | 3,996 | 368 |
| Florida Atlantic U. | 202 | 51,085 | 21,667 | 4,017 | 16,253 | 1,981 | 5,037 | 2,130 |
| U. North Texas, Health Science Center | 203 | 50,124 | 27,260 | 11,355 | 8,142 | 1,872 | 1,492 | 3 |
| Portland State U. | 204 | 50,045 | 33,055 | 4,913 | 7,713 | 1,156 | 2,620 | 588 |
| Kent State U. | 205 | 47,188 | 13,350 | 547 | 31,215 | 518 | 1,418 | 140 |
| U. North Carolina, Charlotte | 206 | 47,187 | 26,199 | 962 | 15,946 | 2,877 | 941 | 262 |
| U. Puerto Rico, Medical Sciences Campus | 207 | 45,014 | 34,570 | 849 | 5,476 | 4,091 | 0 | 28 |
| U. California, Merced | 208 | 44,890 | 16,850 | 3,137 | 20,887 | 474 | 1,937 | 1,605 |
| San Jose State U. | 209 | 44,309 | 35,143 | 2,202 | 3,106 | 746 | 1,111 | 2,001 |
| Howard U. | 210 | 44,163 | 29,978 | 1,478 | 8,386 | 3,685 | 636 | 0 |
| Mercer U. | 211 | 44,128 | 27,035 | 30 | 9,420 | 7,020 | 242 | 381 |
| Texas Tech U., Health Sciences Center | 212 | 44,072 | 11,345 | 17,778 | 8,854 | 433 | 1,963 | 3,699 |
| U.S. Air Force Academy | 213 | 43,941 | 35,294 | 0 | 7,814 | 833 | 0 | 0 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|---|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Southern Methodist U. | 214 | 42,562 | 17,869 | 1,092 | 18,220 | 3,343 | 2,034 | 4 |
| Florida A&M U. | 215 | 42,470 | 35,362 | 1,647 | 4,651 | 543 | 267 | 0 |
| U. West Florida | 216 | 41,977 | 11,506 | 2,076 | 27,090 | 670 | 531 | 104 |
| Missouri U. of Science and Technology | 217 | 41,939 | 22,279 | 442 | 11,958 | 4,481 | 820 | 1,959 |
| Southern Illinois U., Carbondale | 218 | 41,729 | 12,625 | 604 | 20,494 | 7,394 | 612 | 0 |
| Louisiana State U., Health Sciences Center, New Orleans | 219 | 40,914 | 31,290 | 253 | 3,522 | 2,222 | 3,227 | 400 |
| Worcester Polytechnic Institute | 220 | 39,878 | 22,964 | 2,838 | 8,805 | 4,431 | 656 | 184 |
| Boise State U. | 221 | 39,824 | 24,493 | 2,347 | 12,116 | 254 | 530 | 84 |
| Brigham Young U., Provo | 222 | 39,582 | 23,901 | 1,274 | 7,404 | 3,332 | 3,216 | 455 |
| Loyola U., Chicago | 223 | 39,223 | 23,562 | 78 | 7,712 | 3,206 | 3,285 | 1,380 |
| Lehigh U. | 224 | 38,185 | 26,554 | 2,034 | 8,368 | 503 | 435 | 291 |
| SUNY, Upstate Medical U. | 225 | 38,091 | 22,028 | 2,302 | 7,531 | 2,380 | 2,039 | 1,811 |
| Marquette U. | 226 | 37,777 | 12,792 | 362 | 15,153 | 811 | 2,942 | 5,717 |
| CUNY, Hunter C. | 227 | 37,478 | 23,485 | 2,788 | 10,063 | 203 | 541 | 398 |
| North Carolina Agricultural and Technical State U. | 228 | 37,339 | 23,863 | 347 | 12,615 | 208 | 208 | 98 |
| Stevens Institute of Technology | 229 | 36,695 | 28,342 | 1,127 | 4,963 | 1,568 | 654 | 41 |
| U. Denver | 230 | 36,551 | 22,012 | 893 | 6,425 | 1,453 | 5,142 | 626 |
| SUNY, Downstate Medical Center | 231 | 36,015 | 26,914 | 21 | 7,150 | 469 | 1,096 | 365 |
| Illinois Institute of Technology | 232 | 34,334 | 28,827 | 1 | 1,826 | 2,328 | 1,007 | 345 |
| Air Force Institute of Technology | 233 | 34,016 | 21,856 | 0 | 12,037 | 73 | 50 | 0 |
| Baylor U. | 234 | 33,304 | 6,955 | 1,157 | 19,443 | 1,152 | 2,955 | 1,642 |
| Texas A&M U.-Corpus Christi | 235 | 32,944 | 14,451 | 8,481 | 3,981 | 479 | 2,548 | 3,004 |
| U. South Dakota | 236 | 32,028 | 13,367 | 1,843 | 15,676 | 48 | 1,094 | 0 |
| San Francisco State U. | 237 | 31,888 | 15,675 | 2,171 | 12,800 | 65 | 1,162 | 15 |
| Morehouse School of Medicine | 238 | 31,289 | 22,461 | 457 | 6,555 | 0 | 1,816 | 0 |
| California Polytechnic State U., San Luis Obispo | 239 | 30,923 | 9,720 | 2,682 | 14,717 | 1,485 | 2,319 | 0 |
| Kennesaw State U. | 240 | 30,381 | 2,499 | 107 | 26,300 | 840 | 598 | 37 |
| U. Akron | 241 | 30,020 | 11,796 | 4,604 | 7,713 | 3,781 | 1,330 | 796 |
| SUNY, C. of Environmental Science and Forestry | 242 | 29,137 | 7,743 | 13,726 | 6,552 | 469 | 542 | 105 |
| U. Massachusetts, Dartmouth | 243 | 28,036 | 7,353 | 1,603 | 17,421 | 1,140 | 287 | 232 |
| U. Minnesota, Duluth | 244 | 27,530 | 7,143 | 6,735 | 12,443 | 1,025 | 77 | 107 |
| Illinois State U. | 245 | 27,082 | 9,827 | 514 | 15,525 | 456 | 749 | 11 |
| Eastern Virginia Medical School | 246 | 27,064 | 19,408 | 458 | 4,286 | 1,226 | 1,686 | 0 |
| Desert Research Institute | 247 | 26,991 | 16,745 | 2,765 | 3,896 | 258 | 2,565 | 762 |
| U. Puerto Rico, Mayaguez | 248 | 26,877 | 15,653 | 517 | 9,252 | 993 | 417 | 45 |
| U. Missouri, Kansas City | 249 | 26,708 | 14,327 | 0 | 10,162 | 364 | 733 | 1,122 |
| Rutgers, State U. New Jersey, Newark | 250 | 26,661 | 15,397 | 1,361 | 6,607 | 548 | 1,739 | 1,009 |
| Northern Illinois U. | 251 | 26,570 | 8,610 | 1,167 | 16,077 | 337 | 255 | 124 |
| U. North Carolina, Greensboro | 252 | 26,325 | 18,923 | 268 | 5,804 | 194 | 149 | 987 |
| Louisiana State U., Health Sciences Center, Shreveport | 253 | 26,262 | 12,185 | 132 | 9,841 | 524 | 3,580 | 0 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|---|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Louisiana Tech U. | 254 | 26,143 | 6,564 | 2,525 | 14,848 | 890 | 0 | 1,316 |
| Western Michigan U. and Homer Stryker M.D. School of Medicine | 255 | 25,071 | 14,399 | 464 | 6,320 | 1,685 | 623 | 1,580 |
| Teachers C., Columbia U. | 256 | 24,865 | 8,054 | 161 | NA | 1,156 | 13,167 | 2,327 |
| New Mexico Institute of Mining and Technology | 257 | 24,616 | 22,864 | 226 | 311 | 923 | 215 | 77 |
| Nova Southeastern U. | 258 | 24,567 | 8,965 | 2,366 | 10,660 | 2,035 | 398 | 143 |
| Catholic U. of America | 259 | 24,484 | 21,642 | 278 | 1,398 | 485 | 681 | 0 |
| Loma Linda U. | 260 | 24,408 | 16,909 | 742 | 3,328 | 1,828 | 1,502 | 99 |
| U. Puerto Rico, Rio Piedras | 261 | 24,088 | 13,943 | 84 | 9,791 | 117 | 110 | 43 |
| Creighton U. | 262 | 24,039 | 8,265 | 5,312 | 7,078 | 1,554 | 827 | 1,003 |
| California State U., Sacramento | 263 | 23,544 | 5,801 | 10,720 | 5,746 | 386 | 888 | 3 |
| Albany Medical C. | 264 | 23,028 | 11,827 | 0 | 4,294 | 4,413 | 1,355 | 1,139 |
| Delaware State U. | 265 | 23,017 | 12,179 | 498 | 10,315 | 25 | 0 | 0 |
| Rowan U. | 266 | 22,892 | 12,064 | 4,615 | 3,477 | 1,200 | 1,536 | 0 |
| Villanova U. | 267 | 22,837 | 4,085 | 1,219 | 16,135 | 369 | 778 | 251 |
| Miami U. | 268 | 22,380 | 9,755 | 1,877 | 9,085 | 1,155 | 438 | 70 |
| Texas A&M U.-Kingsville | 269 | 22,268 | 8,419 | 4,190 | 3,985 | 451 | 5,223 | 0 |
| U. Alaska, Anchorage | 270 | 21,724 | 14,219 | 1,980 | 4,001 | 465 | 624 | 435 |
| California State U., Northridge | 271 | 21,095 | 16,939 | 1,606 | 1,863 | 49 | 587 | 51 |
| Tuskegee U. | 272 | 20,562 | 14,825 | 2,573 | 2,653 | 0 | 0 | 511 |
| Fordham U. | 273 | 20,287 | 4,218 | 70 | 13,774 | 149 | 1,246 | 830 |
| Marshall U. | 274 | 19,622 | 9,617 | 2,025 | 6,107 | 413 | 1,460 | 0 |
| Chapman U. | 275 | 19,592 | 5,738 | 525 | 8,835 | 448 | 3,996 | 50 |
| New York Medical C. | 276 | 19,398 | 11,061 | 1,444 | 590 | 3,927 | 1,699 | 677 |
| U. Nebraska, central administration | 277 | 18,860 | 18,523 | 0 | 146 | 191 | 0 | 0 |
| California State U., Long Beach | 278 | 18,664 | 13,579 | 1,114 | 1,457 | 678 | 465 | 1,371 |
| U. Tulsa | 279 | 18,648 | 4,142 | 746 | 3,847 | 9,628 | 154 | 131 |
| CUNY, Queens C. | 280 | 18,391 | 13,457 | 975 | 3,403 | 16 | 535 | 5 |
| Meharry Medical C. | 281 | 18,286 | 16,443 | 0 | 921 | 50 | 872 | 0 |
| Jackson State U. | 282 | 18,160 | 16,259 | 0 | 1,438 | 0 | 347 | 116 |
| Southern Illinois U., Edwardsville | 283 | 18,088 | 3,561 | 147 | 12,944 | 1,121 | 260 | 55 |
| Prairie View A&M U. | 284 | 18,018 | 9,346 | 4,886 | 3,454 | 221 | 111 | 0 |
| Northeast Ohio Medical U. | 285 | 18,016 | 10,107 | 132 | 5,288 | 0 | 2,489 | 0 |
| Oakland U. | 286 | 18,002 | 6,690 | 1,544 | 7,410 | 939 | 1,419 | 0 |
| Florida Institute of Technology | 287 | 17,876 | 10,352 | 1,218 | 4,854 | 453 | 579 | 420 |
| U. North Carolina, Wilmington | 288 | 17,515 | 7,174 | 6,472 | 2,444 | 964 | 396 | 65 |
| Clarkson U. | 289 | 17,147 | 8,551 | 1,292 | 5,140 | 1,196 | 845 | 123 |
| Central Michigan U. | 290 | 17,102 | 8,100 | 77 | 7,798 | 43 | 806 | 278 |
| Bowling Green State U. | 291 | 17,026 | 5,852 | 1,443 | 9,126 | 37 | 461 | 107 |
| Duquesne U. | 292 | 16,947 | 4,552 | 812 | 9,191 | 266 | 2,118 | 8 |
| U. Texas Health Science Center, Tyler | 293 | 16,538 | 5,626 | 2,226 | 5,640 | 725 | 2,320 | 1 |
| North Carolina Central U. | 294 | 16,227 | 13,503 | 233 | NA | 262 | 980 | 1,249 |
| Rosalind Franklin U. of Medicine and Science | 295 | 16,126 | 8,865 | 45 | 4,788 | 1,500 | 922 | 6 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|--|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| California State U., San Bernardino | 296 | 16,062 | 8,651 | 4,458 | 2,903 | 30 | 20 | 0 |
| U. New Orleans | 297 | 15,328 | 4,353 | 1,048 | 7,869 | 522 | 864 | 672 |
| Tennessee State U. | 298 | 15,236 | 8,962 | 752 | 5,443 | 66 | 13 | 0 |
| Humboldt State U. | 299 | 15,076 | 2,103 | 5,377 | 3,410 | 313 | 1,899 | 1,974 |
| Idaho State U. | 300 | 14,972 | 7,547 | 1,177 | 5,007 | 818 | 200 | 223 |
| Alcorn State U. | 301 | 14,435 | 7,540 | 4,725 | 2,133 | 37 | 0 | 0 |
| U. Nebraska, Omaha | 302 | 14,302 | 8,807 | 1,730 | 2,842 | 109 | 738 | 76 |
| East Tennessee State U. | 303 | 14,197 | 7,688 | 112 | 2,547 | 641 | 2,925 | 284 |
| Tennessee Technological U. | 304 | 13,801 | 6,153 | 4,544 | 2,751 | 69 | 170 | 114 |
| Charles R. Drew U. of Medicine and Science | 305 | 13,739 | 10,427 | 455 | 2,622 | 0 | 235 | 0 |
| U. Missouri, Saint Louis | 306 | 13,697 | 6,890 | 94 | 4,746 | 43 | 1,213 | 711 |
| U.S. Naval Academy | 307 | 13,621 | 12,991 | 0 | 275 | 0 | 355 | 0 |
| Hampton U. | 308 | 13,605 | 13,390 | 0 | 215 | 0 | 0 | 0 |
| New School | 309 | 13,421 | 1,819 | 466 | 3,459 | 211 | 6,091 | 1,375 |
| Morgan State U. | 310 | 13,253 | 11,952 | 336 | 507 | 278 | 58 | 122 |
| Tarleton State U. | 311 | 13,171 | 4,632 | 2,946 | 5,383 | 96 | 79 | 35 |
| South Dakota School of Mines and Technology | 312 | 12,973 | 9,283 | 1,101 | 1,638 | 680 | 229 | 42 |
| Alabama A&M U. | 313 | 12,840 | 8,277 | 4,405 | 19 | 139 | 0 | 0 |
| Montana Technological U. | 314 | 12,731 | 4,926 | 5,736 | 1,548 | 511 | 0 | 10 |
| Embry-Riddle Aeronautical U. | 315 | 12,478 | 8,970 | 0 | 1,001 | 1,187 | 132 | 1,188 |
| California State U., Los Angeles | 316 | 12,476 | 9,288 | 103 | 2,624 | 0 | 461 | 0 |
| U. Baltimore | 317 | 12,451 | 9,103 | 1,985 | NA | 34 | 937 | 392 |
| U. North Florida | 318 | 12,341 | 4,017 | 1,693 | 6,457 | 76 | 86 | 12 |
| CUNY, John Jay C. of Criminal Justice | 319 | 12,295 | 4,971 | 808 | 2,240 | 2,421 | 512 | 1,343 |
| U. Guam | 320 | 12,249 | 9,339 | 1,742 | 1,146 | 3 | 19 | 0 |
| U. of the Virgin Islands | 321 | 12,236 | 10,445 | 359 | 1,385 | 47 | 0 | 0 |
| U. Hawaii, system office | 322 | 12,159 | 12,052 | 0 | 107 | 0 | 0 | 0 |
| Ball State U. | 323 | 12,145 | 2,929 | 758 | 7,734 | 391 | 333 | 0 |
| Western Washington U. | 324 | 11,983 | 3,978 | 702 | 5,916 | 238 | 1,129 | 20 |
| Texas Tech U., Health Sciences Center, El Paso | 325 | 11,883 | 2,279 | 2,544 | 6,306 | 363 | 335 | 56 |
| U. South Florida, Saint Petersburg | 326 | 11,686 | 3,121 | 2,480 | 5,766 | 28 | 273 | 18 |
| Virginia State U. | 327 | 11,457 | 6,636 | 1,527 | 2,262 | 71 | 954 | 7 |
| Ponce Health Sciences U. | 328 | 11,390 | 8,339 | 450 | 0 | 0 | 0 | 2,601 |
| Georgia Southern U. | 329 | 11,166 | 1,780 | 265 | 4,610 | 4,511 | 0 | 0 |
| U.S. Military Academy | 330 | 10,765 | 10,528 | 0 | 0 | 237 | 0 | 0 |
| Langston U. | 331 | 10,719 | 6,622 | 0 | 3,856 | 241 | 0 | 0 |
| California State U., San Marcos | 332 | 10,595 | 9,134 | 1,394 | 48 | 0 | 19 | 0 |
| Midwestern U. | 333 | 10,343 | 1,045 | 50 | 8,670 | 308 | 270 | 0 |
| Montclair State U. | 334 | 10,225 | 4,164 | 331 | 904 | 117 | 4,604 | 105 |
| Clark U. | 335 | 10,193 | 3,495 | 181 | 5,162 | 43 | 1,295 | 17 |
| Xavier U. Louisiana | 336 | 10,152 | 8,679 | 514 | 932 | 0 | 27 | 0 |
| William Paterson U. | 337 | 10,122 | 1,592 | 0 | 8,476 | 1 | 53 | 0 |
| U. Arkansas, Little Rock | 338 | 9,975 | 6,688 | 673 | 2,089 | 162 | 363 | 0 |
| Wesleyan U. | 339 | 9,958 | 4,793 | 145 | 3,921 | 37 | 903 | 159 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|--|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Bryn Mawr C. | 340 | 9,846 | 1,801 | 0 | 7,726 | 0 | 319 | 0 |
| St. Edward's U. | 341 | 9,650 | 6,500 | 1,500 | 700 | 150 | 500 | 300 |
| CUNY, Graduate School of Public Health and Health Policy | 342 | 9,521 | 5,572 | 1,190 | 1,518 | 328 | 913 | 0 |
| Rhode Island C. | 343 | 9,480 | 3,332 | 5,573 | 107 | 1 | 467 | 0 |
| Sam Houston State U. | 344 | 9,445 | 3,723 | 183 | 5,310 | 53 | 115 | 61 |
| Salisbury U. | 345 | 9,368 | 2,290 | 3,477 | 3,475 | 7 | 119 | 0 |
| Western Kentucky U. | 346 | 9,281 | 3,391 | 378 | 5,202 | 184 | 85 | 41 |
| U. Tennessee, Chattanooga | 347 | 9,280 | 2,393 | 1,195 | 4,945 | 217 | 354 | 176 |
| Clark Atlanta U. | 348 | 9,048 | 5,689 | 0 | 3,207 | 22 | 130 | 0 |
| U. Arkansas, Pine Bluff | 349 | 9,024 | 4,299 | 2,103 | 2,562 | 0 | 60 | 0 |
| Arkansas State U., Jonesboro | 350 | 8,945 | 4,876 | 3,010 | 781 | 209 | 6 | 63 |
| U. Michigan, Dearborn | 351 | 8,813 | 1,850 | 2 | 3,871 | 2,871 | 179 | 40 |
| Wellesley C. | 352 | 8,810 | 3,602 | 115 | 0 | 143 | 4,508 | 442 |
| Pacific U. | 353 | 8,753 | 3,917 | 317 | 2,356 | 397 | 1,766 | 0 |
| James Madison U. | 354 | 8,726 | 2,717 | 59 | 5,170 | 221 | 490 | 69 |
| Claremont Graduate U. | 355 | 8,715 | 1,886 | 321 | 2,809 | 1,056 | 2,527 | 116 |
| California State U., Fresno | 356 | 8,599 | 2,900 | 2,612 | 2,486 | 195 | 341 | 65 |
| Kentucky State U. | 357 | 8,433 | 4,692 | 3,626 | 10 | 72 | 33 | 0 |
| CUNY, Advanced Science Research Center | 358 | 8,310 | 6,859 | 17 | 706 | 288 | 141 | 299 |
| Indiana U. Pennsylvania | 359 | 8,119 | 1,810 | 321 | 5,515 | 9 | 464 | 0 |
| Norfolk State U. | 360 | 8,050 | 8,046 | 0 | 4 | 0 | 0 | 0 |
| U. Washington, Bothell | 361 | 7,950 | 3,353 | 111 | 915 | 184 | 3,366 | 21 |
| Middle Tennessee State U. | 362 | 7,673 | 2,473 | 474 | 3,955 | 237 | 113 | 421 |
| C. Charleston | 363 | 7,610 | 4,395 | 249 | 2,298 | 4 | 638 | 26 |
| California State U., Bakersfield | 364 | 7,591 | 4,376 | 90 | 2,753 | 60 | 0 | 312 |
| U. New England | 365 | 7,346 | 5,269 | 0 | 1,885 | 48 | 139 | 5 |
| Loyola Marymount U. | 366 | 7,272 | 1,185 | 591 | 4,924 | 0 | 571 | 1 |
| Edward Via C. of Osteopathic Medicine | 367 | 7,225 | 749 | 2 | 5,932 | 139 | 403 | 0 |
| Eastern Michigan U. | 368 | 7,175 | 2,135 | 36 | 4,654 | 91 | 245 | 14 |
| California State U., Fullerton | 369 | 7,173 | 4,340 | 298 | 1,872 | 198 | 465 | 0 |
| U. Maryland, Eastern Shore | 370 | 7,133 | 6,983 | 109 | 0 | 41 | 0 | 0 |
| CUNY, Brooklyn C. | 371 | 7,064 | 4,463 | 109 | 1,879 | 41 | 501 | 71 |
| Seton Hall U. | 372 | 7,056 | 3,982 | 1,871 | 120 | 232 | 851 | 0 |
| U. Hawaii, Hilo | 373 | 6,864 | 4,924 | 281 | 1,035 | 121 | 440 | 63 |
| West Chester U. Pennsylvania | 374 | 6,777 | 715 | 27 | 5,522 | 25 | 376 | 112 |
| U. Southern Maine | 375 | 6,654 | 2,551 | 3,839 | 161 | 0 | 88 | 15 |
| Grand Valley State U. | 376 | 6,592 | 1,663 | 190 | 3,423 | 39 | 877 | 400 |
| Texas Christian U. | 377 | 6,552 | 2,866 | 590 | 1,144 | 1,531 | 240 | 181 |
| California State U., Monterey Bay | 378 | 6,444 | 3,746 | 1,397 | 849 | 42 | 410 | 0 |
| U. Oklahoma, Tulsa | 379 | 6,373 | 1,803 | 240 | 2,649 | 209 | 1,084 | 388 |
| Amherst C. | 380 | 6,325 | 2,118 | 0 | 2,894 | 0 | 154 | 1,159 |
| Claremont McKenna C. | 381 | 6,214 | 730 | 38 | 4,915 | 0 | 531 | 0 |
| DePaul U. | 382 | 6,144 | 4,464 | 6 | 1,132 | 36 | 473 | 33 |
| California State Polytechnic U., Pomona | 383 | 6,099 | 3,555 | 994 | 1,094 | 447 | 9 | 0 |
| Texas A&M International U. | 384 | 6,068 | 1,847 | 1,077 | 1,555 | 54 | 1,498 | 37 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|--|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Smith C. | 385 | 6,041 | 2,892 | 0 | 1,658 | 21 | 1,470 | 0 |
| U. San Diego | 386 | 6,036 | 2,511 | 135 | 2,823 | 0 | 273 | 294 |
| New Jersey City U. | 387 | 5,961 | 3,142 | 1,421 | 1,238 | 10 | 140 | 10 |
| Missouri State U. | 388 | 5,910 | 5,076 | 90 | 567 | 140 | 37 | 0 |
| Florida Gulf Coast U. | 389 | 5,907 | 3,773 | 877 | 103 | 24 | 1,130 | 0 |
| West Virginia State U. | 390 | 5,829 | 4,592 | 886 | 318 | 33 | 0 | 0 |
| New York Institute of Technology | 391 | 5,820 | 3,135 | 188 | 2,059 | 6 | 432 | 0 |
| U. Central Oklahoma | 392 | 5,682 | 1,457 | 607 | 3,546 | 69 | 3 | 0 |
| Bucknell U. | 393 | 5,625 | 1,764 | 80 | 3,201 | 214 | 355 | 11 |
| Azusa Pacific U. | 394 | 5,598 | 137 | 0 | 5,461 | 0 | 0 | 0 |
| Grinnell C. | 395 | 5,500 | 364 | 0 | 4,580 | 0 | 344 | 212 |
| Southern U. and A&M C., Agricultural Research and Extension Center | 396 | 5,448 | 3,057 | 2,323 | 68 | 0 | 0 | 0 |
| West Texas A&M U. | 397 | 5,437 | 1,565 | 1,587 | 1,197 | 963 | 62 | 63 |
| Oklahoma State U., Center for Health Sciences | 398 | 5,408 | 985 | 135 | 4,159 | 129 | 0 | 0 |
| CUNY, Graduate Center | 399 | 5,399 | 3,009 | 152 | 70 | 0 | 1,077 | 1,091 |
| Gallaudet U. | 400 | 5,382 | 2,190 | 0 | 2,436 | 1 | 153 | 602 |
| Purdue U., Northwest | 401 | 5,272 | 2,493 | 609 | 1,311 | 640 | 137 | 82 |
| U. Detroit Mercy | 402 | 5,210 | 4,936 | 0 | 121 | 12 | 141 | 0 |
| Williams C. | 403 | 5,188 | 1,131 | 0 | 1,758 | 0 | 145 | 2,154 |
| Alfred U. | 404 | 5,153 | 1,580 | 1,059 | 1,882 | 632 | 0 | 0 |
| Long Island U. | 405 | 5,113 | 1,839 | 11 | 2,935 | 173 | 155 | 0 |
| U. New Haven | 406 | 5,062 | 2,786 | 559 | 542 | 490 | 685 | 0 |
| Naval War C. | 407 | 5,060 | 5,060 | 0 | 0 | 0 | 0 | 0 |
| Franklin and Marshall C. | 408 | 5,041 | 1,582 | 321 | 2,375 | 208 | 265 | 290 |
| Western U. of Health Sciences | 409 | 4,951 | 3,035 | 655 | 175 | 839 | 194 | 53 |
| U. Massachusetts, central office | 410 | 4,916 | 488 | 3,226 | 240 | 323 | 578 | 61 |
| Texas Southern U. | 411 | 4,893 | 3,238 | 922 | 662 | 36 | 35 | 0 |
| Lamar U. | 412 | 4,848 | 2,641 | 902 | 695 | 131 | 333 | 146 |
| U. of the District of Columbia | 413 | 4,800 | 3,283 | 62 | 1,455 | 0 | 0 | 0 |
| Oregon Institute of Technology | 414 | 4,793 | 437 | 2,585 | 488 | 1,126 | 157 | 0 |
| Fisk U. | 415 | 4,748 | 4,615 | 0 | 0 | 47 | 86 | 0 |
| U. Colorado Colorado Springs | 416 | 4,720 | 3,072 | 682 | 424 | 471 | 71 | 0 |
| Fayetteville State U. | 417 | 4,695 | 2,168 | 476 | 1,793 | 168 | 90 | 0 |
| CUNY, Lehman C. | 418 | 4,690 | 3,342 | 0 | 787 | 0 | 0 | 561 |
| Southern Connecticut State U. | 419 | 4,627 | 803 | 160 | 3,471 | 6 | 108 | 79 |
| U. North Carolina, Asheville | 420 | 4,602 | 1,846 | 203 | 418 | 13 | 2,122 | 0 |
| Lincoln U., Jefferson City | 421 | 4,581 | 2,700 | 1,881 | NA | 0 | 0 | 0 |
| U. Northern Colorado | 422 | 4,571 | 1,966 | 235 | 1,940 | 14 | 416 | 0 |
| Morehouse C. | 423 | 4,564 | 4,494 | 0 | 0 | 0 | 0 | 70 |
| Fort Valley State U. | 424 | 4,563 | 4,434 | 0 | 129 | 0 | 0 | 0 |
| Southern U. and A&M C., Baton Rouge | 425 | 4,492 | 3,243 | 290 | 704 | 255 | 0 | 0 |
| Texas Woman's U. | 426 | 4,477 | 1,864 | 559 | 1,321 | 126 | 607 | 0 |
| Youngstown State U. | 427 | 4,447 | 2,878 | 665 | 798 | 34 | 71 | 1 |
| Carleton C. | 428 | 4,388 | 1,891 | 98 | 1,955 | 0 | 423 | 21 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|--|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| National Defense U. | 429 | 4,231 | 4,231 | 0 | 0 | 0 | 0 | 0 |
| Swarthmore C. | 430 | 4,203 | 1,539 | 0 | 2,344 | 0 | 320 | 0 |
| U. North Carolina, general administration | 431 | 4,154 | 213 | 3,941 | 0 | 0 | 0 | 0 |
| MGH Institute of Health Professions | 432 | 4,130 | 3,494 | 0 | 20 | 0 | 616 | 0 |
| Milwaukee School of Engineering | 433 | 4,026 | 764 | 93 | 0 | 3,141 | 14 | 14 |
| Barnard C. | 434 | 4,010 | 2,871 | 0 | 656 | 136 | 347 | 0 |
| CUNY, C. Staten Island | 435 | 3,986 | 2,421 | 680 | 408 | 175 | 64 | 238 |
| U. Central del Caribe | 436 | 3,953 | 2,705 | 215 | 1,002 | 0 | 0 | 31 |
| U. Ana G. Mendez, Gurabo | 437 | 3,945 | 951 | 0 | 2,994 | 0 | 0 | 0 |
| Roseman U. of Health Sciences | 438 | 3,916 | 17 | 8 | 3,746 | 56 | 89 | 0 |
| Pace U. | 439 | 3,855 | 2,579 | 7 | 1,183 | 18 | 64 | 4 |
| Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences | 440 | 3,769 | 191 | 0 | 3,576 | 0 | 2 | 0 |
| Central State U. | 441 | 3,766 | 2,517 | 1,249 | 0 | 0 | 0 | 0 |
| Colgate U. | 442 | 3,756 | 1,202 | 0 | 2,313 | 0 | 241 | 0 |
| Haverford C. | 443 | 3,752 | 2,343 | 0 | 919 | 0 | 219 | 271 |
| U. of the Sciences Philadelphia | 444 | 3,740 | 1,318 | 76 | 745 | 1,117 | 484 | 0 |
| Trinity U. | 445 | 3,736 | 924 | 0 | 1,431 | 0 | 1,216 | 165 |
| Dakota State U. | 446 | 3,710 | 3,008 | 129 | 538 | 33 | 2 | 0 |
| Murray State U. | 446 | 3,710 | 2,639 | 22 | 982 | 67 | 0 | 0 |
| Toyota Technological Institute, Chicago | 448 | 3,681 | 1,934 | 0 | 1,325 | 305 | 117 | 0 |
| Stephen F. Austin State U. | 449 | 3,679 | 1,332 | 1,430 | 543 | 21 | 184 | 169 |
| South Carolina State U. | 450 | 3,659 | 3,659 | NA | NA | NA | NA | NA |
| U. Northern Iowa | 451 | 3,628 | 2,343 | 301 | 808 | 135 | 41 | 0 |
| Touro U. | 452 | 3,543 | 1,540 | 37 | 1,917 | 4 | 45 | 0 |
| U. Central Arkansas | 453 | 3,477 | 1,462 | 359 | 1,484 | 30 | 142 | 0 |
| U. Washington, Tacoma | 454 | 3,471 | 2,808 | 452 | 184 | 0 | 26 | 1 |
| U. Wisconsin-Stevens Point | 455 | 3,464 | 1,096 | 960 | 1,111 | 71 | 153 | 73 |
| Towson U. | 456 | 3,423 | 2,144 | 19 | 851 | 75 | 303 | 31 |
| Pennsylvania State U., Behrend | 457 | 3,414 | 1,427 | 75 | 1,092 | 515 | 305 | 0 |
| Texas A&M U.-Commerce | 458 | 3,403 | 836 | 296 | 1,756 | 31 | 184 | 300 |
| Minnesota State U., Mankato | 459 | 3,392 | 708 | 179 | 1,339 | 0 | 951 | 215 |
| Albany C. of Pharmacy and Health Sciences | 460 | 3,383 | 1,692 | 0 | 744 | 901 | 40 | 6 |
| Tougaloo C. | 461 | 3,380 | 3,380 | 0 | 0 | 0 | 0 | 0 |
| Harvey Mudd C. | 462 | 3,353 | 1,619 | 0 | 1,208 | 201 | 191 | 134 |
| St. Cloud State U. | 463 | 3,275 | 733 | 159 | 1,180 | 743 | 460 | 0 |
| Appalachian State U. | 464 | 3,268 | 1,332 | 337 | 657 | 580 | 357 | 5 |
| Reed C. | 465 | 3,240 | 1,423 | 23 | 1,558 | 0 | 236 | 0 |
| California State U., Chico | 466 | 3,232 | 1,864 | 523 | 456 | 36 | 100 | 253 |
| Central Washington U. | 467 | 3,223 | 2,159 | 322 | 460 | 21 | 115 | 146 |
| Rutgers, State U. New Jersey, Camden | 468 | 3,211 | 1,096 | 86 | 1,370 | 120 | 537 | 2 |
| Philadelphia C. of Osteopathic Medicine | 469 | 3,162 | 346 | 0 | 2,368 | 0 | 448 | 0 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|---------------------------------------|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Colorado State U., Pueblo | 470 | 3,107 | 1,282 | 1,725 | 89 | 0 | 0 | 11 |
| U. of the Pacific | 471 | 3,078 | 2,158 | 404 | NA | 33 | 483 | 0 |
| Skidmore C. | 472 | 3,012 | 2,261 | 0 | 465 | 0 | 286 | 0 |
| Bowdoin C. | 473 | 2,991 | 1,790 | 31 | 758 | 1 | 411 | 0 |
| Pomona C. | 474 | 2,985 | 863 | 8 | 1,468 | 0 | 646 | 0 |
| Mount Holyoke C. | 475 | 2,979 | 2,074 | 41 | 398 | 0 | 466 | 0 |
| SUNY, C. of Optometry | 476 | 2,968 | 1,823 | 0 | 350 | 711 | 84 | 0 |
| California State U., Maritime Academy | 477 | 2,959 | 617 | 155 | 71 | 2,116 | 0 | 0 |
| U. Nebraska, Kearney | 478 | 2,919 | 1,240 | 695 | 891 | 45 | 14 | 34 |
| Saint Joseph's U. | 479 | 2,851 | 373 | 769 | 1,260 | 4 | 245 | 200 |
| Grambling State U. | 480 | 2,836 | 1,066 | 670 | 1,100 | 0 | 0 | 0 |
| Saginaw Valley State U. | 481 | 2,818 | 2,339 | 19 | 271 | 1 | 159 | 29 |
| Pennsylvania State U., Harrisburg | 482 | 2,805 | 80 | 596 | 1,525 | 188 | 416 | 0 |
| U. Richmond | 483 | 2,783 | 1,575 | 0 | 815 | 0 | 382 | 11 |
| Dillard U. | 484 | 2,772 | 1,390 | 185 | 732 | 0 | 98 | 367 |
| Spelman C. | 485 | 2,751 | 2,004 | 0 | 560 | 187 | 0 | 0 |
| Lewis and Clark C. | 486 | 2,750 | 931 | 0 | 1,483 | 0 | 336 | 0 |
| Hope C. | 487 | 2,745 | 1,361 | 0 | 281 | 0 | 1,103 | 0 |
| U. San Francisco | 488 | 2,712 | 198 | 257 | 1,723 | 0 | 534 | 0 |
| CUNY, New York City C. of Technology | 489 | 2,711 | 1,891 | 5 | 256 | 554 | 5 | 0 |
| U. Wisconsin-La Crosse | 490 | 2,692 | 777 | 700 | 469 | 518 | 199 | 29 |
| Northwest Indian C. | 491 | 2,659 | 2,520 | 0 | 24 | 0 | 115 | 0 |
| Stockton U. | 492 | 2,634 | 553 | 1,787 | 289 | 0 | 5 | 0 |
| Western Carolina U. | 493 | 2,633 | 1,736 | 154 | 477 | 113 | 153 | 0 |
| CUNY, system office | 494 | 2,619 | 2,241 | 23 | 109 | 0 | 131 | 115 |
| Alabama State U. | 495 | 2,577 | 2,577 | 0 | 0 | 0 | 0 | 0 |
| Elon U. | 496 | 2,545 | 284 | 0 | 2,179 | 37 | 42 | 3 |
| Pittsburg State U. | 497 | 2,513 | 339 | 976 | NA | 1,025 | 173 | 0 |
| U. South Carolina, Aiken | 498 | 2,481 | 2,379 | 0 | 99 | 0 | 3 | 0 |
| Northeastern Illinois U. | 499 | 2,478 | 2,478 | 0 | 0 | 0 | 0 | 0 |
| Occidental C. | 500 | 2,458 | 1,614 | 164 | NA | 291 | 389 | 0 |
| Jacksonville State U. | 501 | 2,429 | 2,312 | 0 | 100 | 17 | 0 | 0 |
| Yeshiva U. | 502 | 2,420 | 380 | 0 | 869 | 0 | 381 | 790 |
| Purdue U., Fort Wayne | 503 | 2,416 | 544 | 423 | 879 | 135 | 144 | 291 |
| CUNY, Baruch C. | 504 | 2,387 | 1,359 | 98 | 570 | 0 | 330 | 30 |
| Western Illinois U. | 505 | 2,373 | 1,495 | 182 | 344 | 94 | 0 | 258 |
| U. Louisiana, Monroe | 506 | 2,364 | 1,949 | 179 | 94 | 2 | 140 | 0 |
| Northern Kentucky U. | 507 | 2,363 | 1,316 | 105 | 769 | 33 | 140 | 0 |
| St. John's U., New York | 508 | 2,352 | 1,666 | 0 | 405 | 162 | 105 | 14 |
| Sul Ross State U. | 508 | 2,352 | 339 | 160 | 593 | 52 | 622 | 586 |
| Santa Clara U. | 510 | 2,319 | 1,333 | 210 | NA | 250 | 526 | 0 |
| Austin Peay State U. | 511 | 2,285 | 295 | 1,295 | 486 | 196 | 0 | 13 |
| Erikson Institute | 512 | 2,279 | 753 | 588 | 179 | 0 | 759 | 0 |
| U. Wisconsin-Superior | 513 | 2,250 | 1,527 | 125 | 510 | 39 | 2 | 47 |
| Colorado C. | 514 | 2,233 | 324 | 303 | 1,039 | 0 | 567 | 0 |
| Seattle U. | 515 | 2,223 | 1,307 | 78 | 312 | 2 | 362 | 162 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|--------------------------------------|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| U. Houston-Downtown | 516 | 2,216 | 1,437 | 99 | 368 | 0 | 312 | 0 |
| Winthrop U. | 517 | 2,189 | 1,438 | 99 | 477 | 7 | 168 | 0 |
| Wheaton C., Wheaton | 518 | 2,173 | 301 | 0 | 950 | 2 | 920 | 0 |
| Pepperdine U. | 519 | 2,170 | 914 | 54 | 1,059 | 0 | 143 | 0 |
| Johnson C. Smith U. | 520 | 2,148 | 1,909 | 100 | 0 | 0 | 139 | 0 |
| SUNY, Geneseo | 521 | 2,139 | 1,206 | 15 | 903 | 0 | 15 | 0 |
| Bates C. | 522 | 2,135 | 1,607 | 0 | 284 | 0 | 101 | 143 |
| SUNY, Buffalo State | 523 | 2,124 | 1,225 | 435 | 209 | 37 | 209 | 9 |
| Polytechnic U. Puerto Rico | 524 | 2,118 | 1,884 | 0 | 234 | 0 | 0 | 0 |
| Keck Graduate Institute | 525 | 2,095 | 1,078 | 0 | 673 | 139 | 34 | 171 |
| U. Wisconsin-Green Bay | 526 | 2,083 | 821 | 502 | 640 | 41 | 77 | 2 |
| Oberlin C. | 527 | 2,076 | 1,576 | 0 | 469 | 3 | 28 | 0 |
| U. North Georgia | 528 | 2,068 | 637 | 29 | 861 | 1 | 540 | 0 |
| U. Texas, Tyler | 529 | 2,063 | 813 | 295 | 541 | 247 | 73 | 94 |
| Northwestern State U. Louisiana | 530 | 2,058 | 579 | 1,235 | 244 | 0 | 0 | 0 |
| Niagara U. | 531 | 2,057 | 355 | 275 | 620 | 0 | 807 | 0 |
| Hamilton C. | 532 | 2,050 | 190 | 0 | 1,302 | 0 | 491 | 67 |
| Coastal Carolina U. | 533 | 2,042 | 1,294 | 177 | 42 | 1 | 517 | 11 |
| Black Hills State U. | 534 | 2,031 | 1,535 | 147 | 349 | 0 | 0 | 0 |
| Morehead State U. | 535 | 2,028 | 1,651 | 50 | 317 | 0 | 10 | 0 |
| Eastern Washington U. | 536 | 2,024 | 864 | 906 | NA | 123 | 84 | 47 |
| Winston-Salem State U. | 537 | 2,011 | 2,011 | 0 | NA | 0 | 0 | 0 |
| Florida Polytechnic U. | 538 | 2,006 | 338 | 1,289 | 369 | 2 | 1 | 7 |
| Hawaii Pacific U. | 539 | 1,980 | 1,809 | 0 | 136 | 0 | 35 | 0 |
| Southeastern Louisiana U. | 540 | 1,971 | 803 | 174 | 782 | 12 | 168 | 32 |
| Christopher Newport U. | 541 | 1,961 | 1,285 | 43 | 265 | 111 | 90 | 167 |
| California State U., Dominguez Hills | 542 | 1,957 | 1,261 | 27 | 653 | 7 | 0 | 9 |
| Des Moines U. | 543 | 1,954 | 845 | 320 | 680 | 21 | 88 | 0 |
| Willamette U. | 544 | 1,953 | 549 | 4 | 861 | 0 | 539 | 0 |
| Hobart and William Smith Colleges | 545 | 1,919 | 1,047 | 329 | 453 | 0 | 90 | 0 |
| Bowie State U. | 546 | 1,911 | 1,911 | 0 | 0 | 0 | 0 | 0 |
| Connecticut C. | 547 | 1,894 | 752 | 0 | 1,089 | 0 | 53 | 0 |
| U. Illinois, Springfield | 548 | 1,876 | 980 | 44 | 774 | 4 | 74 | 0 |
| U. South Florida, Sarasota-Manatee | 549 | 1,872 | 0 | 0 | 1,859 | 0 | 12 | 1 |
| U. of St. Thomas (MN) | 550 | 1,870 | 313 | 380 | 603 | 287 | 249 | 38 |
| U. Puerto Rico, Cayey | 550 | 1,870 | 963 | 0 | 722 | 0 | 185 | 0 |
| Trinity C., Hartford | 552 | 1,858 | 1,077 | 0 | 582 | 4 | 195 | 0 |
| Colby C. | 553 | 1,852 | 1,093 | 1 | 512 | 0 | 0 | 246 |
| Roger Williams U. | 553 | 1,852 | 1,135 | 138 | 502 | 33 | 44 | 0 |
| Babson C. | 555 | 1,845 | 14 | 0 | 868 | 101 | 198 | 664 |
| Macalester C. | 556 | 1,808 | 805 | 95 | 797 | 0 | 111 | 0 |
| Mercyhurst U. | 557 | 1,801 | 668 | 555 | 578 | 0 | 0 | 0 |
| U. of the Incarnate Word | 558 | 1,800 | 1,075 | 52 | 462 | 0 | 208 | 3 |
| SUNY, Oswego | 559 | 1,781 | 628 | 66 | 1,028 | 0 | 48 | 11 |
| Liberty U. | 560 | 1,780 | 535 | 344 | 596 | 51 | 254 | 0 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|--------------------------------------|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| Davidson C. | 561 | 1,777 | 973 | 0 | 642 | 4 | 158 | 0 |
| Alaska Pacific U. | 562 | 1,774 | 451 | 5 | 0 | 1,312 | 0 | 6 |
| Kettering U. | 563 | 1,765 | 402 | 0 | 720 | 602 | 41 | 0 |
| C. Wooster | 564 | 1,758 | 456 | 0 | 997 | 0 | 297 | 8 |
| Clafin U. | 565 | 1,746 | 1,735 | 0 | 0 | 0 | 11 | 0 |
| Hofstra U. | 566 | 1,744 | 1,296 | 51 | 206 | 58 | 99 | 34 |
| Union C., Schenectady | 567 | 1,740 | 972 | 19 | 637 | 26 | 61 | 25 |
| SUNY, C. Plattsburgh | 568 | 1,729 | 1,197 | 59 | 472 | 0 | 1 | 0 |
| Savannah State U. | 569 | 1,720 | 1,709 | 11 | 0 | 0 | 0 | 0 |
| U. Wisconsin-Oshkosh | 570 | 1,713 | 1,282 | 0 | 0 | 0 | 0 | 431 |
| Indiana State U. | 571 | 1,682 | 1,190 | 142 | 186 | 70 | 94 | 0 |
| Gettysburg C. | 572 | 1,664 | 841 | 0 | 186 | 59 | 394 | 184 |
| Eastern Connecticut State U. | 573 | 1,659 | 181 | 12 | 1,466 | 0 | 0 | 0 |
| Middlebury C. | 574 | 1,657 | 1,558 | 0 | 40 | 6 | 53 | 0 |
| Franklin W. Olin C. of Engineering | 575 | 1,655 | 162 | 0 | 574 | 92 | 697 | 130 |
| Palmer C. of Chiropractic, Davenport | 576 | 1,650 | 1,100 | 0 | 550 | 0 | 0 | 0 |
| Mills C. | 577 | 1,643 | 840 | 61 | 49 | 0 | 693 | 0 |
| Furman U. | 578 | 1,628 | 1,106 | 0 | 403 | 0 | 119 | 0 |
| CUNY, York C. | 579 | 1,621 | 1,511 | 0 | 88 | 22 | 0 | 0 |
| La Sierra U. | 580 | 1,581 | 640 | 0 | 403 | 0 | 538 | 0 |
| Calvin U. | 581 | 1,577 | 925 | 32 | 5 | 99 | 188 | 328 |
| California State U., Channel Islands | 582 | 1,572 | 500 | 704 | 337 | 21 | 0 | 10 |
| Lafayette C. | 583 | 1,554 | 910 | 10 | 598 | 36 | 0 | 0 |
| U. Wisconsin-Eau Claire | 584 | 1,530 | 748 | 338 | 260 | 68 | 114 | 2 |
| U. Hartford | 585 | 1,528 | 1,019 | 0 | 486 | 23 | 0 | 0 |
| Northern Michigan U. | 586 | 1,520 | 311 | 2 | 1,027 | 86 | 38 | 56 |
| Albany State U. | 587 | 1,491 | 1,065 | 256 | 0 | 170 | 0 | 0 |
| California State U., Stanislaus | 588 | 1,477 | 964 | 78 | 96 | 277 | 62 | 0 |
| Fort Lewis C. | 589 | 1,460 | 1,284 | 61 | 85 | 7 | 23 | 0 |
| U. Michigan, Flint | 590 | 1,448 | 122 | 205 | 855 | 131 | 121 | 14 |
| Marshall B. Ketchum U. | 591 | 1,430 | 336 | 0 | 725 | 369 | 0 | 0 |
| CUNY, Medgar Evers C. | 592 | 1,397 | 954 | 0 | 383 | 0 | 60 | 0 |
| SUNY, C. Brockport | 593 | 1,390 | 638 | 244 | 480 | 0 | 7 | 21 |
| Central Connecticut State U. | 594 | 1,381 | 540 | 339 | 463 | 0 | 39 | 0 |
| U. Houston-Clear Lake | 595 | 1,370 | 718 | 431 | 39 | 51 | 131 | 0 |
| Bradley U. | 596 | 1,357 | 515 | 49 | 265 | 515 | 0 | 13 |
| Lawrence Technological U. | 597 | 1,352 | 304 | 224 | 96 | 279 | 449 | 0 |
| U. Alaska, Southeast | 598 | 1,341 | 1,235 | 87 | 2 | 2 | 15 | 0 |
| U. of Mary Washington | 599 | 1,315 | 577 | 35 | 577 | 0 | 94 | 32 |
| Monmouth U. | 600 | 1,294 | 120 | 735 | 62 | 21 | 321 | 35 |
| Fairfield U. | 601 | 1,279 | 594 | 0 | 164 | 0 | 521 | 0 |
| Benedict C. | 602 | 1,269 | 1,226 | 14 | 0 | 0 | 29 | 0 |
| Salish Kootenai C. | 603 | 1,252 | 1,251 | 0 | 0 | 0 | 1 | 0 |
| National U. of Natural Medicine | 604 | 1,245 | 760 | 0 | 308 | 172 | 0 | 5 |
| Heidelberg U. | 605 | 1,237 | 164 | 651 | 178 | 62 | 182 | 0 |
| U. Minnesota, Morris | 606 | 1,234 | 195 | 18 | 1,011 | 0 | 10 | 0 |

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Source of funds | | | | | |
|---|------|----------------------|--------------------|----------------------------|-------------------|----------|-------------------------|-------------------|
| | | | Federal government | State and local government | Institution funds | Business | Nonprofit organizations | All other sources |
| New England C. of Optometry | 607 | 1,223 | 928 | 0 | 174 | 44 | 77 | 0 |
| Saint Michael's C. | 608 | 1,200 | 964 | 0 | 236 | 0 | 0 | 0 |
| U. Puerto Rico, Humacao | 609 | 1,195 | 828 | 0 | 367 | 0 | 0 | 0 |
| Saint John's U., Collegeville | 610 | 1,191 | 0 | 0 | 1,191 | 0 | 0 | 0 |
| Manhattan C. | 611 | 1,190 | 245 | 220 | 430 | 295 | 0 | 0 |
| Biola U. | 612 | 1,155 | 641 | 18 | 294 | 77 | 95 | 30 |
| Emerson C. | 613 | 1,145 | 138 | 184 | 398 | 8 | 417 | 0 |
| California Lutheran U. | 614 | 1,143 | 256 | 5 | 880 | 0 | 2 | 0 |
| Fort Hays State U. | 614 | 1,143 | 694 | 326 | 123 | 0 | 0 | 0 |
| Andrews U. | 616 | 1,126 | 278 | 0 | 615 | 0 | 233 | 0 |
| C. of Saint Benedict | 616 | 1,126 | 45 | 0 | 1,081 | 0 | 0 | 0 |
| Dine C. | 616 | 1,126 | 1,126 | 0 | 0 | 0 | 0 | 0 |
| Eastern Kentucky U. | 619 | 1,125 | 598 | 82 | 328 | 2 | 13 | 102 |
| Doane U. | 620 | 1,093 | 928 | 0 | 148 | 0 | 17 | 0 |
| Kenyon C. | 621 | 1,092 | 776 | 0 | 176 | 0 | 140 | 0 |
| U. Wisconsin-Platteville | 622 | 1,084 | 339 | 276 | 183 | 248 | 29 | 9 |
| Whitman C. | 623 | 1,083 | 704 | 0 | 207 | 0 | 172 | 0 |
| Keene State C. | 624 | 1,061 | 1,022 | 0 | 39 | 0 | 0 | 0 |
| Providence C. | 625 | 1,042 | 857 | 0 | 152 | 0 | 33 | 0 |
| Albion C. | 626 | 1,040 | 180 | 0 | 860 | 0 | 0 | 0 |
| Dickinson C. | 627 | 1,037 | 324 | 111 | 350 | 0 | 209 | 43 |
| Rhode Island School of Design | 628 | 1,027 | 246 | 44 | 450 | 234 | 53 | 0 |
| St. Olaf C. | 629 | 1,010 | 255 | 10 | 638 | 0 | 107 | 0 |
| Vassar C. | 630 | 1,009 | 909 | 0 | 53 | 0 | 19 | 28 |
| U.S. Army War C. | 631 | 1,000 | 567 | 107 | 231 | 31 | 46 | 18 |
| Augsburg U. | 632 | 991 | 496 | 0 | 441 | 0 | 0 | 54 |
| Canisius C. | 633 | 950 | 943 | 0 | 0 | 0 | 7 | 0 |
| U. Portland | 634 | 942 | 218 | 292 | 189 | 2 | 241 | 0 |
| Chicago State U. | 635 | 898 | 898 | 0 | 0 | 0 | 0 | 0 |
| Drake U. | 636 | 865 | 463 | 11 | 236 | 7 | 146 | 2 |
| American Samoa Community C. | 637 | 860 | 860 | 0 | 0 | 0 | 0 | 0 |
| Salus U. | 638 | 854 | 696 | 13 | 77 | 60 | 8 | 0 |
| Augustana U. | 639 | 841 | 784 | 0 | 57 | 0 | 0 | 0 |
| Bethune-Cookman U. | 640 | 735 | 735 | 0 | 0 | 0 | 0 | 0 |
| A. T. Still U. | 641 | 644 | 434 | 0 | 87 | 1 | 122 | 0 |
| Allegheny C. | 642 | 632 | 217 | 5 | 248 | 0 | 160 | 2 |
| U. Ana G. Mendez, Cupey | 643 | 624 | 608 | 0 | 16 | 0 | 0 | 0 |
| Texas A&M U.-Central Texas | 644 | 428 | 45 | 250 | 71 | 0 | 62 | 0 |
| Maine Maritime Academy | 645 | 358 | 282 | 0 | 76 | 0 | 0 | 0 |
| Southwest C. of Naturopathic Medicine and Health Sciences | 646 | 230 | 0 | 0 | 30 | 0 | 200 | 0 |
| Rider U. | 647 | 228 | 68 | 25 | 104 | 0 | 29 | 2 |

i = imputed. NA = not available; data were not provided by institution.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$1,725,018 thousand in total R&D expenditures in FY 2019.^b 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.

Note(s):

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. For complete rankings of all institutions in both survey populations, see table 5.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2019.