

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|---|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| All institutions | - | 86,296,178 | 2,923,149 | 3,281,251 | 49,640,508 | 798,975 | 5,667,046 | 1,357,081 | 2,947,338 | 952,459 | 13,692,756 | 5,035,615 |
| Johns Hopkins U. ^a | 1 | 3,110,494 | 226,696 i | 65,556 i | 1,047,668 i | 105,774 i | 390,245 i | 5,918 i | 6,221 i | 50,959 i | 1,205,632 i | 5,825 i |
| U. Michigan, Ann Arbor | 2 | 1,673,862 | 15,180 | 14,928 | 967,660 | 18,648 | 60,824 | 20,413 | 187,421 | 4,528 | 283,329 | 100,931 |
| U. California, San Francisco | 3 | 1,651,073 | 0 | 0 | 1,581,411 | 0 | 69,662 | 0 | 0 | 0 | 0 | 0 |
| U. Pennsylvania | 4 | 1,579,364 | 26,318 | 1,760 | 1,185,719 | 6,817 | 58,157 | 15,854 | 51,374 | 4,670 | 82,299 | 146,396 |
| U. Washington, Seattle | 5 | 1,456,902 | 27,986 | 135,307 | 963,264 | 7,120 | 60,477 | 8,802 | 15,458 | 0 | 152,919 | 85,569 |
| U. California, San Diego | 6 | 1,403,735 | 30,370 | 201,331 | 828,401 | 4,857 | 94,124 | 20,113 | 19,942 | 13,715 | 182,495 | 8,387 |
| U. California, Los Angeles | 7 | 1,392,941 | 17,480 | 41,594 | 989,602 | 13,161 | 54,697 | 19,087 | 60,591 | 48,975 | 93,520 | 54,234 |
| U. Wisconsin-Madison | 8 | 1,363,931 | 28,241 | 65,000 | 839,302 | 6,675 | 83,687 | 12,090 | 59,239 | 44,219 | 133,600 | 91,878 |
| Harvard U. | 9 | 1,239,983 | 15,250 | 43,505 | 684,127 | 20,038 | 100,654 | 5,099 | 142,484 | 7,303 | 97,884 | 123,639 |
| Stanford U. | 10 | 1,203,950 | 26,512 | 20,216 | 836,401 | 7,036 | 94,954 | 18,866 | 24,770 | 104 | 130,950 | 44,141 |
| Duke U. | 11 | 1,196,638 | 6,019 | 9,675 | 990,897 | 9,842 | 22,396 | 8,953 | 36,760 | 10 | 95,657 | 16,429 |
| Cornell U. | 12 | 1,190,063 | 31,173 | 8,145 | 822,419 | 3,323 | 121,218 | 11,516 | 25,622 | 0 | 123,703 | 42,944 |
| U. North Carolina, Chapel Hill | 13 | 1,159,725 | 26,765 | 19,242 | 868,276 | 6,729 | 39,979 | 41,741 | 82,154 | 116 | 30,774 | 43,949 |
| Texas A&M U., College Station and Health Science Center | 14 | 1,130,803 | 18,504 | 107,894 | 502,372 | 8,768 | 54,574 | 5,248 | 29,389 | 5,636 | 357,559 | 40,859 |
| U. Pittsburgh, Pittsburgh | 15 | 1,105,532 | 9,312 | 10,875 | 954,315 | 4,169 | 27,652 | 17,680 | 4,990 | 10,268 | 53,586 | 12,685 |
| U. Maryland ^b | 16 | 1,103,062 | 50,541 | 58,099 | 594,114 | 5,356 | 105,718 | 9,288 | 64,636 | 7,050 | 153,109 | 55,151 |
| Yale U. | 17 | 1,094,135 | 5,969 | 5,916 | 944,439 | 4,703 | 56,046 | 9,684 | 15,994 | 139 | 36,806 | 14,439 |
| U. Texas M. D. Anderson Cancer Center | 18 | 1,051,297 | 0 | 0 | 981,164 | 21,622 | 19,060 | 16,860 | 12,591 | 0 | 0 | 0 |
| Georgia Institute of Technology | 19 | 1,048,988 | 185,400 | 12,904 | 43,699 | 8,826 | 34,215 | 3,943 | 33,645 | 0 | 695,176 | 31,180 |
| U. Minnesota, Twin Cities | 20 | 1,042,382 | 22,996 | 14,715 | 722,074 | 8,994 | 43,946 | 31,954 | 31,218 | 2,488 | 120,929 | 43,068 |
| Columbia U. in the City of New York | 21 | 1,032,909 | 25,101 | 78,288 | 744,239 | 4,118 | 37,384 | 5,234 | 14,784 | 0 | 72,758 | 51,003 |
| Pennsylvania State U., University Park and Hershey Medical Center | 22 | 991,923 | 89,490 | 41,590 | 291,299 | 17,706 | 94,201 | 40,599 | 27,842 | 0 | 367,730 | 21,466 |
| Massachusetts Institute of Technology | 23 | 987,968 | 111,779 | 32,718 | 126,648 | 10,434 | 153,044 | 484 | 51,477 | 19,833 | 419,636 | 61,915 |
| Ohio State U. | 24 | 968,260 | 22,869 | 9,158 | 590,076 | 5,881 | 57,083 | 7,542 | 18,486 | 27,995 | 175,109 | 54,061 |
| New York U. | 25 | 947,293 | 14,584 | 401 | 643,638 | 13,465 | 26,698 | 28,468 | 30,676 | 53 | 100,207 | 89,103 |
| U. Florida | 26 | 942,223 | 13,006 | 17,740 | 688,091 | 1,726 | 25,532 | 10,922 | 13,552 | 42 | 119,066 | 52,546 |
| U. Southern California | 27 | 941,198 | 121,116 | 19,983 | 580,982 | 1,617 | 23,644 | 14,234 | 59,926 | 0 | 78,005 | 41,691 |
| Washington U., Saint Louis | 28 | 920,215 | 5,467 | 5,509 | 824,978 | 959 | 23,401 | 6,052 | 1,191 | 3,303 | 23,821 | 25,534 |
| Northwestern U. | 29 | 874,671 | 8,441 | 1,351 | 619,270 | 2,275 | 78,168 | 3,706 | 18,762 | 38,556 | 77,150 | 26,992 |
| U. California, Berkeley | 30 | 840,000 | 12,701 | 9,845 | 258,228 | 8,263 | 141,434 | 19,329 | 60,568 | 76,642 | 209,293 | 43,697 |

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(Dollars in thousands)

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|--|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Vanderbilt U. and Vanderbilt U. Medical Center | 31 | 824,803 | 0 | 1,919 | 625,549 | 1,689 | 28,017 | 15,682 | 7,187 | 0 | 94,674 | 50,086 |
| U. California, Davis | 32 | 816,693 | 7,256 | 30,153 | 597,962 | 4,455 | 26,495 | 3,022 | 28,486 | 8,894 | 97,951 | 12,019 |
| Emory U. | 33 | 808,792 | 2,345 | 1,075 | 732,893 | 2,357 | 22,505 | 4,817 | 3,352 | 0 | 11,349 | 28,099 |
| U. Texas, Austin | 34 | 797,199 | 139,290 | 61,145 | 130,377 | 20,290 | 81,380 | 10,435 | 20,650 | 3,413 | 259,935 | 70,284 |
| U. Arizona | 35 | 760,975 | 15,084 | 31,148 | 437,147 | 3,098 | 149,138 | 2,900 | 17,689 | 7,566 | 79,463 | 17,742 |
| Icahn School of Medicine at Mount Sinai | 36 | 747,014 | 0 | 0 | 747,014 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana U., Bloomington | 37 | 728,554 | 43,034 | 7,962 | 518,775 | 1,740 | 33,389 | 12,822 | 47,029 | 13,701 | 14,294 | 35,808 |
| Michigan State U. | 38 | 713,197 | 15,783 | 5,435 | 319,883 | 12,494 | 154,318 | 16,399 | 50,407 | 16,975 | 82,690 | 38,813 |
| U. Illinois, Urbana-Champaign | 39 | 689,176 | 95,988 | 6,281 | 241,661 | 5,346 | 72,360 | 16,086 | 5,846 | 11,429 | 203,564 | 30,615 |
| Rutgers, State U. New Jersey, New Brunswick | 40 | 688,077 | 6,402 | 25,634 | 518,906 | 9,493 | 25,703 | 8,256 | 7,005 | 4,377 | 55,880 | 26,421 |
| Purdue U., West Lafayette | 41 | 687,144 | 27,886 | 10,166 | 243,953 | 2,671 | 42,370 | 7,176 | 21,150 | 2,751 | 280,592 | 48,429 |
| Baylor C. of Medicine | 42 | 685,641 | 0 | 0 | 685,641 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona State U. | 43 | 673,357 | 22,231 | 73,544 | 103,558 | 5,942 | 25,619 | 17,645 | 83,980 | 107,393 | 155,015 | 78,430 |
| U. Virginia, Charlottesville | 44 | 652,002 | 26,286 | 6,040 | 420,679 | 1,593 | 27,628 | 10,335 | 16,948 | 2,567 | 72,602 | 67,324 |
| U. Alabama, Birmingham | 45 | 618,226 | 1,502 | 701 | 542,308 | 916 | 4,678 | 5,164 | 246 | 0 | 53,030 | 9,681 |
| U. Utah | 46 | 607,061 | 37,159 | 20,011 | 402,001 | 4,065 | 30,170 | 11,198 | 14,837 | 189 | 57,608 | 29,823 |
| U. Texas Southwestern Medical Center | 47 | 595,939 | 0 | 0 | 595,939 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Boston U. | 48 | 583,267 | 14,251 | 8,573 | 373,079 | 5,199 | 30,909 | 20,413 | 7,931 | 8,078 | 85,651 | 29,183 |
| Virginia Polytechnic Institute and State U. | 49 | 556,341 | 30,405 | 3,068 | 199,798 | 6,776 | 24,214 | 4,899 | 13,082 | 219 | 263,711 | 10,169 |
| U. Colorado Denver and Anschutz Medical Campus | 50 | 554,643 | 234 | 612 | 536,533 | 524 | 1,192 | 1,921 | 282 | 3 | 6,180 | 7,162 |
| North Carolina State U. | 51 | 546,290 | 16,119 | 27,010 | 240,399 | 20,164 | 23,464 | 2,479 | 9,826 | 13,888 | 174,740 | 18,201 |
| U. Iowa | 52 | 538,583 | 3,547 | 2,441 | 414,459 | 624 | 23,226 | 8,817 | 6,875 | 2,371 | 48,433 | 27,790 |
| U. Cincinnati | 53 | 530,138 | 2,031 | 1,171 | 440,721 | 1,422 | 8,874 | 1,667 | 11,291 | 977 | 43,098 | 18,886 |
| U. Colorado Boulder | 54 | 525,674 | 15,627 | 119,824 | 52,074 | 2,659 | 115,340 | 11,982 | 16,443 | 2,177 | 160,423 | 29,125 |
| U. California, Irvine | 55 | 490,597 | 21,573 | 12,705 | 289,422 | 7,106 | 40,964 | 11,448 | 12,741 | 799 | 59,695 | 34,144 |
| U. Georgia | 56 | 482,786 | 3,760 | 20,493 | 302,667 | 6,690 | 11,295 | 25,773 | 23,737 | 5,968 | 19,273 | 63,130 |
| U. Chicago | 57 | 458,891 | 24,422 | 9,090 | 302,820 | 4,726 | 51,122 | 8,006 | 23,750 | 0 | 24,468 | 10,487 |
| California Institute of Technology | 58 | 449,651 | 15,072 | 43,338 | 89,626 | 1,387 | 217,581 | 0 | 0 | 0 | 51,693 | 30,954 |
| Oregon Health and Science U. | 59 | 446,890 | 0 | 0 | 433,917 | 0 | 0 | 53 | 0 | 0 | 12,856 | 64 |
| Scripps Research Institute | 60 | 444,964 | 0 | 0 | 444,964 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Case Western Reserve U. | 61 | 439,778 | 34 | 523 | 384,857 | 355 | 8,063 | 1,155 | 4,386 | 441 | 37,911 | 2,053 |
| SUNY, U. Buffalo | 62 | 422,038 | 18,747 | 3,739 | 241,467 | 1,067 | 11,161 | 5,113 | 6,356 | 1,147 | 112,843 | 20,398 |

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|---|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| U. Kentucky | 63 | 417,674 | 4,054 | 2,966 | 322,077 | 1,336 | 8,553 | 3,537 | 3,696 | 12,936 | 46,976 | 11,543 |
| U. Illinois, Chicago | 64 | 412,147 | 12,999 | 1,021 | 314,296 | 4,109 | 15,752 | 3,621 | 7,905 | 4,862 | 31,496 | 16,086 |
| Colorado State U., Fort Collins | 65 | 407,302 | 4,278 | 67,642 | 231,734 | 4,190 | 11,356 | 3,255 | 14,787 | 3,963 | 42,839 | 23,258 |
| U. Rochester | 66 | 397,211 | 4,021 | 3,104 | 259,224 | 201 | 101,004 | 5,576 | 279 | 6,249 | 16,116 | 1,437 |
| Princeton U. | 67 | 396,502 | 24,160 | 23,819 | 91,903 | 13,550 | 94,815 | 9,240 | 57,913 | 0 | 67,014 | 14,088 |
| Carnegie Mellon U. | 68 | 386,996 | 192,119 | 448 | 14,696 | 12,000 | 21,580 | 11,507 | 12,461 | 5,365 | 102,955 | 13,865 |
| U. Miami | 69 | 381,410 | 283 | 50,684 | 302,160 | 1,420 | 5,150 | 13,896 | 1,812 | 5 | 5,060 | 940 |
| U. Kansas | 70 | 368,811 | 4,416 | 10,485 | 226,786 | 672 | 7,502 | 16,106 | 6,450 | 238 | 19,830 | 76,326 |
| Iowa State U. | 71 | 363,107 | 7,666 | 4,538 | 123,853 | 17,062 | 27,216 | 3,786 | 6,923 | 5,821 | 109,473 | 56,769 |
| U. Oklahoma, Norman and Health Science Center | 72 | 362,209 | 3,019 | 84,812 | 164,967 | 2,018 | 18,739 | 1,608 | 25,818 | 0 | 36,643 | 24,585 |
| Rockefeller U. | 73 | 356,217 | 9,058 | 986 | 337,377 | 1,612 | 7,184 | 0 | 0 | 0 | 0 | 0 |
| SUNY, Polytechnic Institute | 74 | 355,651 | 0 | 0 | 1,977 | 0 | 0 | 0 | 0 | 0 | 353,542 | 132 |
| Florida State U. | 75 | 350,430 | 10,349 | 20,816 | 64,315 | 7,128 | 68,454 | 17,715 | 19,446 | 5,335 | 56,493 | 80,379 |
| Washington State U. | 76 | 335,201 | 8,251 | 9,440 | 196,649 | 447 | 24,243 | 3,875 | 12,338 | 55 | 39,533 | 40,370 |
| U. South Florida, Tampa | 77 | 333,344 | 9,417 | 24,670 | 164,666 | 3,165 | 11,433 | 4,710 | 31,616 | 500 | 37,162 | 46,005 |
| U. Missouri, Columbia | 78 | 332,180 | 4,187 | 988 | 220,890 | 1,279 | 9,173 | 7,898 | 3,957 | 2,191 | 53,343 | 28,274 |
| Dartmouth C. and Dartmouth Hitchcock Medical Center | 79 | 326,349 | 14,889 | 5,241 | 170,704 | 5,848 | 21,219 | 13,239 | 20,370 | 2,901 | 31,140 | 40,798 |
| Uniformed Services U. of the Health Sciences | 80 | 324,510 | 0 | 0 | 316,838 | 0 | 0 | 7,672 | 0 | 0 | 0 | 0 |
| U. Nebraska, Lincoln | 81 | 320,463 | 8,541 | 2,943 | 161,499 | 5,526 | 25,853 | 12,761 | 14,322 | 1,805 | 51,685 | 35,528 |
| U. Tennessee, Knoxville ^c | 82 | 320,407 | 13,906 | 5,322 | 84,619 | 3,181 | 21,239 | 5,465 | 12,171 | 17,869 | 128,542 | 28,093 |
| Utah State U. | 83 | 304,256 | 2,538 | 511 | 56,017 | 846 | 6,606 | 4,698 | 2,601 | 461 | 226,616 | 3,362 |
| Temple U. | 84 | 299,707 | 5,901 | 2,044 | 216,388 | 3,213 | 18,447 | 11,418 | 6,746 | 807 | 9,294 | 25,449 |
| Albert Einstein C. of Medicine | 85 | 288,654 | 0 | 0 | 288,654 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana State U., Baton Rouge | 86 | 286,733 | 8,284 | 32,283 | 155,187 | 2,701 | 22,366 | 902 | 4,888 | 11,116 | 40,084 | 8,922 |
| Virginia Commonwealth U. | 87 | 283,874 | 2,138 | 354 | 206,550 | 793 | 3,499 | 10,743 | 1,701 | 0 | 29,811 | 28,285 |
| Mississippi State U. | 88 | 280,485 | 5,189 | 17,335 | 119,753 | 1,959 | 10,381 | 2,044 | 32,157 | 6,329 | 69,220 | 16,118 |
| U. Connecticut | 89 | 280,131 | 5,575 | 9,186 | 157,618 | 2,344 | 18,546 | 21,553 | 6,645 | 2,179 | 46,751 | 9,734 |
| U. Massachusetts, Medical School | 90 | 279,096 | 0 | 0 | 279,096 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. Hawaii, Manoa | 91 | 275,929 | 11,963 | 71,468 | 123,649 | 515 | 29,491 | 441 | 4,851 | 5,519 | 25,423 | 2,609 |
| U. Texas Health Science Center, Houston | 92 | 273,862 | 0 | 0 | 273,862 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Medical U. South Carolina | 93 | 272,590 | 0 | 0 | 272,590 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| George Washington U. | 94 | 270,369 | 7,308 | 436 | 179,803 | 926 | 8,313 | 3,074 | 25,348 | 1,855 | 22,682 | 20,624 |

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|---|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Oregon State U. | 95 | 268,385 | 8,213 | 39,215 | 143,505 | 1,595 | 4,814 | 1,115 | 6,696 | 6,373 | 50,900 | 5,959 |
| Brown U. | 96 | 266,127 | 15,695 | 5,954 | 134,751 | 12,204 | 17,745 | 7,889 | 30,782 | 7,886 | 23,965 | 9,256 |
| Medical C. Wisconsin | 97 | 264,325 | 0 | 0 | 255,783 | 0 | 0 | 0 | 0 | 0 | 8,542 | 0 |
| SUNY, Stony Brook U. | 98 | 263,470 | 10,909 | 25,334 | 121,070 | 7,629 | 41,224 | 4,946 | 2,881 | 16,030 | 30,180 | 3,267 |
| Georgetown U. | 99 | 258,659 | 18,620 | 0 | 155,197 | 1,765 | 9,151 | 2,615 | 35,933 | 2,223 | 0 | 33,155 |
| Auburn U., Auburn | 100 | 255,281 | 5,006 | 3,460 | 110,768 | 3,736 | 15,247 | 2,824 | 6,902 | 2,967 | 70,593 | 33,778 |
| U. California, Santa Barbara | 101 | 254,434 | 9,231 | 40,396 | 30,838 | 1,416 | 58,534 | 4,929 | 7,631 | 867 | 87,681 | 12,911 |
| Wake Forest U. | 102 | 244,643 | 226 | 0 | 236,154 | 529 | 2,196 | 847 | 460 | 0 | 859 | 3,372 |
| U. New Mexico | 103 | 243,375 | 3,964 | 6,924 | 148,158 | 1,422 | 8,063 | 6,827 | 10,624 | 8,528 | 42,739 | 6,126 |
| Wayne State U. | 104 | 243,259 | 2,133 | 296 | 182,757 | 1,716 | 16,895 | 1,464 | 3,289 | 8,397 | 12,806 | 13,506 |
| U. Central Florida | 105 | 239,343 | 29,423 | 4,008 | 32,376 | 3,197 | 34,630 | 10,968 | 9,513 | 1,602 | 62,071 | 51,555 |
| Florida International U. | 106 | 236,842 | 16,175 | 16,023 | 55,877 | 1,470 | 27,354 | 34,642 | 17,828 | 1,063 | 39,826 | 26,584 |
| Clemson U. | 107 | 228,597 | 4,852 | 0 | 71,776 | 2,607 | 10,823 | 633 | 6,680 | 0 | 76,971 | 54,255 |
| Woods Hole Oceanographic Institution | 108 | 227,573 | 0 | 143,240 | 0 | 0 | 0 | 0 | 0 | 0 | 84,333 | 0 |
| U. Notre Dame | 109 | 227,535 | 14,904 | 0 | 27,750 | 5,257 | 44,855 | 5,450 | 8,860 | 9,261 | 84,478 | 26,720 |
| George Mason U. | 110 | 221,006 | 23,969 | 10,679 | 33,163 | 1,941 | 5,586 | 3,196 | 67,966 | 0 | 52,423 | 22,083 |
| U. Delaware | 111 | 220,445 | 6,648 | 17,697 | 66,097 | 1,887 | 25,192 | 7,485 | 12,936 | 2,317 | 74,258 | 5,928 |
| U. South Carolina, Columbia | 112 | 219,464 | 4,809 | 8,374 | 98,789 | 1,817 | 4,651 | 9,768 | 16,626 | 271 | 42,804 | 31,555 |
| U. Massachusetts, Amherst | 113 | 219,389 | 31,199 | 4,265 | 64,246 | 3,361 | 28,757 | 7,836 | 4,819 | 1,711 | 58,804 | 14,391 |
| Tufts U. | 114 | 216,241 | 4,273 | 472 | 136,826 | 3,409 | 15,438 | 2,420 | 12,852 | 6,931 | 26,662 | 6,958 |
| Kansas State U. | 115 | 213,900 | 3,511 | 1,479 | 127,024 | 3,246 | 12,583 | 5,215 | 10,750 | 7,776 | 28,155 | 14,161 |
| Tulane U. | 116 | 204,430 | 2,257 | 4,825 | 161,642 | 581 | 5,720 | 1,942 | 6,876 | 0 | 6,881 | 13,706 |
| U. Texas Health Science Center, San Antonio | 117 | 202,572 | 0 | 0 | 202,572 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia State U. | 118 | 202,451 | 3,435 | 1,104 | 66,831 | 1,973 | 19,395 | 8,952 | 24,697 | 0 | 0 | 76,064 |
| U. Nebraska, Medical Center | 119 | 202,406 | 0 | 0 | 202,406 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. Houston | 120 | 200,428 | 5,599 | 9,437 | 34,394 | 3,596 | 50,164 | 13,999 | 1,536 | 647 | 55,210 | 25,846 |
| Northeastern U. | 121 | 200,068 | 21,118 | 4,039 | 32,626 | 878 | 20,709 | 8,863 | 11,615 | 0 | 89,954 | 10,266 |
| Texas Tech U. | 122 | 199,643 | 5,111 | 8,913 | 49,230 | 3,402 | 15,103 | 10,670 | 11,877 | 0 | 42,856 | 52,481 |
| U. Louisville | 123 | 198,818 | 97 | 180 | 158,677 | 494 | 2,954 | 2,050 | 1,593 | 719 | 18,105 | 13,949 |
| Rice U. | 124 | 198,681 | 10,760 | 5,152 | 16,008 | 9,363 | 33,656 | 4,798 | 19,959 | 604 | 91,913 | 6,468 |
| U. Vermont | 125 | 191,147 | 3,036 | 2,716 | 142,081 | 2,154 | 4,877 | 3,084 | 4,492 | 5,179 | 11,209 | 12,319 |
| West Virginia U. | 126 | 188,452 | 1,894 | 9,625 | 108,264 | 482 | 12,678 | 1,773 | 3,590 | 1,257 | 40,786 | 8,103 |

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|------------------------------------|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Oklahoma State U., Stillwater | 127 | 187,060 | 5,361 | 2,870 | 75,506 | 4,213 | 9,784 | 9,085 | 6,251 | 6,533 | 33,983 | 33,474 |
| U. California, Riverside | 128 | 184,894 | 8,974 | 10,855 | 95,431 | 1,682 | 17,037 | 2,950 | 5,132 | 3,923 | 31,937 | 6,973 |
| U. Texas Medical Branch | 129 | 180,595 | 0 | 0 | 179,403 | 0 | 0 | 0 | 0 | 0 | 1,192 | 0 |
| U. Arkansas for Medical Sciences | 130 | 174,549 | 0 | 0 | 174,549 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Thomas Jefferson U. | 131 | 171,377 | 0 | 0 | 171,207 | 0 | 0 | 4 | 0 | 0 | 143 | 23 |
| Montana State U., Bozeman | 132 | 166,285 | 1,459 | 5,603 | 71,440 | 2,536 | 17,990 | 359 | 1,126 | 8,097 | 38,833 | 18,842 |
| U. Arkansas, Fayetteville | 133 | 165,887 | 4,591 | 3,499 | 77,569 | 97 | 9,791 | 707 | 7,186 | 85 | 37,758 | 24,604 |
| U. Louisiana, Lafayette | 134 | 164,070 | 11,111 | 5,426 | 87,621 | 2,117 | 3,546 | 327 | 97 | 102 | 27,878 | 25,845 |
| U. Dayton | 135 | 163,718 | 7,200 | 359 | 632 | 4 | 868 | 33 | 38 | 0 | 153,082 | 1,502 |
| U. Nevada, Reno | 136 | 159,790 | 7,550 | 15,077 | 71,378 | 2,341 | 9,566 | 5,430 | 7,053 | 1,993 | 23,939 | 15,463 |
| U. New Hampshire | 137 | 156,901 | 854 | 51,661 | 52,822 | 404 | 4,425 | 877 | 11,344 | 0 | 23,457 | 11,057 |
| New Jersey Institute of Technology | 138 | 155,715 | 9,177 | 0 | 19,871 | 4,756 | 15,829 | 0 | 8,314 | 59 | 82,047 | 15,662 |
| North Dakota State U. | 139 | 155,645 | 3,433 | 553 | 101,693 | 1,120 | 6,502 | 2,798 | 15,215 | 4,546 | 14,007 | 5,778 |
| Wichita State U. | 140 | 153,816 | 0 | 44 | 2,980 | 105 | 1,114 | 543 | 36 | 0 | 134,848 | 14,146 |
| U. Alaska, Fairbanks | 141 | 152,299 | 1,148 | 72,609 | 29,409 | 346 | 15,551 | 367 | 1,810 | 11,281 | 17,843 | 1,935 |
| U. California, Santa Cruz | 142 | 150,400 | 5,009 | 29,389 | 27,565 | 236 | 36,262 | 487 | 5,724 | 347 | 41,752 | 3,629 |
| Syracuse U. | 143 | 149,652 | 5,081 | 3,060 | 10,724 | 2,528 | 13,905 | 3,771 | 14,165 | 184 | 24,272 | 71,962 |
| Drexel U. | 144 | 143,123 | 4,105 | 0 | 89,027 | 546 | 2,437 | 2,852 | 2,854 | 1,741 | 31,230 | 8,331 |
| U. Texas, San Antonio | 145 | 138,586 | 12,064 | 2,354 | 25,911 | 1,529 | 11,234 | 4,716 | 9,447 | 1,429 | 22,922 | 46,980 |
| SUNY, U. Albany | 146 | 138,088 | 6,591 | 15,523 | 60,025 | 1,774 | 7,719 | 4,982 | 20,551 | 0 | 3,319 | 17,604 |
| U. Texas, Arlington | 147 | 133,793 | 7,572 | 877 | 18,430 | 2,053 | 17,257 | 1,329 | 104 | 0 | 59,395 | 26,776 |
| U. Texas, Dallas | 148 | 132,192 | 9,992 | 856 | 35,986 | 1,155 | 17,759 | 789 | 2,166 | 16 | 50,812 | 12,661 |
| U. Maine | 149 | 132,184 | 1,967 | 24,051 | 39,354 | 845 | 6,351 | 1,183 | 2,274 | 10,215 | 36,760 | 9,184 |
| U. Alabama, Huntsville | 150 | 131,648 | 36,636 | 17,304 | 3,170 | 726 | 13,353 | 218 | 1,717 | 0 | 51,198 | 7,326 |
| U. Mississippi | 151 | 122,960 | 207 | 1,151 | 86,130 | 216 | 11,652 | 620 | 2,317 | 18 | 13,661 | 6,988 |
| SUNY, Binghamton U. | 152 | 117,870 | 7,873 | 1,916 | 12,877 | 2,830 | 18,586 | 12,263 | 16,907 | 0 | 32,668 | 11,950 |
| Cold Spring Harbor Laboratory | 153 | 115,198 | 0 | 0 | 115,051 | 0 | 0 | 0 | 0 | 0 | 0 | 147 |
| U. Oregon | 154 | 114,259 | 5,652 | 6,704 | 35,936 | 906 | 12,984 | 17,505 | 8,911 | 0 | 0 | 25,661 |
| U. Idaho | 155 | 112,810 | 1,595 | 4,933 | 73,933 | 205 | 1,539 | 320 | 5,076 | 4,548 | 17,035 | 3,626 |
| U. North Dakota | 156 | 111,663 | 3,199 | 6,781 | 31,526 | 434 | 3,489 | 1,506 | 1,616 | 985 | 52,511 | 9,616 |
| U. Montana, Missoula | 157 | 110,218 | 1,746 | 5,878 | 66,817 | 1,187 | 7,592 | 791 | 17,493 | 0 | 0 | 8,714 |
| U. Rhode Island | 158 | 109,967 | 523 | 42,634 | 27,699 | 0 | 3,869 | 2,059 | 2,377 | 12,716 | 10,182 | 7,908 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|--|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| U. Texas, El Paso | 159 | 108,628 | 7,597 | 3,426 | 28,552 | 2,927 | 6,775 | 5,285 | 4,161 | 3,542 | 25,172 | 21,191 |
| Rensselaer Polytechnic Institute | 160 | 107,623 | 14,484 | 2,837 | 6,102 | 2,808 | 12,143 | 3,568 | 355 | 0 | 57,923 | 7,403 |
| New Mexico State U. | 161 | 107,275 | 4,539 | 5,381 | 43,340 | 188 | 26,366 | 276 | 469 | 228 | 25,030 | 1,458 |
| U. Nevada, Las Vegas | 162 | 105,872 | 1,077 | 6,342 | 34,733 | 2,347 | 9,692 | 3,767 | 6,306 | 613 | 12,729 | 28,266 |
| Augusta U. | 163 | 103,961 | 61 | 0 | 103,554 | 13 | 29 | 101 | 128 | 0 | 0 | 75 |
| U. Tennessee, Health Science Center | 164 | 99,716 | 0 | 0 | 98,345 | 0 | 0 | 0 | 0 | 723 | 648 | 0 |
| San Diego State U. | 165 | 97,710 | 1,519 | 2,234 | 27,880 | 3,899 | 6,402 | 20,222 | 5,106 | 3,669 | 7,934 | 18,845 |
| U. Alabama, Tuscaloosa | 166 | 95,200 | 12,836 | 3,062 | 8,985 | 262 | 6,471 | 3,030 | 4,595 | 0 | 33,019 | 22,940 |
| Rush U. | 167 | 94,438 | 0 | 0 | 92,494 | 0 | 0 | 1,944 | 0 | 0 | 0 | 0 |
| U. Wyoming | 168 | 93,061 | 581 | 12,944 | 47,073 | 1,276 | 1,248 | 664 | 535 | 7,100 | 20,317 | 1,323 |
| U. Massachusetts, Lowell | 169 | 92,216 | 7,153 | 2,177 | 12,056 | 663 | 19,144 | 1,746 | 5,924 | 636 | 35,847 | 6,870 |
| U. North Texas, Denton | 170 | 84,239 | 4,769 | 2,064 | 12,745 | 1,676 | 9,275 | 4,489 | 7,541 | 0 | 15,205 | 26,475 |
| U. Maryland, Baltimore County | 171 | 83,867 | 11,590 | 15,158 | 11,478 | 729 | 18,278 | 1,973 | 11,597 | 2,195 | 6,671 | 4,198 |
| Colorado School of Mines | 172 | 78,517 | 3,748 | 8,916 | 2,073 | 583 | 11,346 | 0 | 1,403 | 0 | 46,694 | 3,754 |
| Cleveland State U. | 173 | 78,189 | 0 | 0 | 46,618 | 784 | 1,547 | 653 | 6,265 | 0 | 16,225 | 6,097 |
| Michigan Technological U. | 174 | 77,927 | 2,994 | 13,896 | 3,804 | 2,260 | 4,094 | 551 | 1,260 | 609 | 45,263 | 3,196 |
| U. Southern Mississippi | 175 | 72,322 | 144 | 29,843 | 11,248 | 195 | 13,422 | 0 | 3,645 | 0 | 5,999 | 7,826 |
| American U. | 176 | 71,839 | 672 | 642 | 1,886 | 1,559 | 4,714 | 2,248 | 20,632 | 5,152 | 0 | 34,334 |
| Indiana U.-Purdue U., Indianapolis | 177 | 71,387 | 5,002 | 1,277 | 21,183 | 595 | 2,324 | 4,592 | 16,055 | 4,584 | 7,179 | 8,596 |
| Texas State U. | 178 | 70,714 | 2,197 | 7,357 | 12,417 | 1,038 | 2,208 | 223 | 4,907 | 2,003 | 6,892 | 31,472 |
| Saint Louis U. | 179 | 69,528 | 1,164 | 1,174 | 58,836 | 280 | 1,942 | 393 | 448 | 0 | 2,621 | 2,670 |
| U. Memphis | 180 | 69,463 | 8,486 | 5,493 | 10,395 | 1,241 | 3,014 | 5,455 | 7,750 | 1,618 | 10,741 | 15,270 |
| William & Mary | 181 | 66,763 | 2,917 | 33,084 | 2,694 | 438 | 5,781 | 320 | 10,623 | 0 | 0 | 10,906 |
| Old Dominion U. | 182 | 65,704 | 2,196 | 4,166 | 14,463 | 1,239 | 7,028 | 1,419 | 2,482 | 0 | 25,869 | 6,842 |
| Northern Arizona U. | 183 | 64,456 | 2,671 | 7,408 | 38,862 | 0 | 7,064 | 725 | 419 | 403 | 4,996 | 1,908 |
| U. Massachusetts, Boston | 184 | 64,219 | 1,242 | 3,848 | 8,950 | 449 | 3,584 | 4,361 | 12,734 | 453 | 1,206 | 27,392 |
| Brandeis U. | 185 | 63,201 | 1,721 | 12 | 23,263 | 551 | 9,384 | 3,351 | 16,191 | 189 | 0 | 8,539 |
| Boston C. | 186 | 63,063 | 599 | 5,836 | 9,824 | 1,289 | 9,306 | 4,452 | 11,862 | 0 | 0 | 19,895 |
| Naval Postgraduate School | 187 | 62,903 | 7,345 | 6,566 | 1,655 | 2,824 | 9,161 | 0 | 6,040 | 1,752 | 22,933 | 4,627 |
| U. Wisconsin-Milwaukee | 188 | 61,069 | 116 | 7,288 | 10,279 | 4,792 | 8,699 | 4,404 | 6,710 | 2,811 | 9,683 | 6,287 |
| South Dakota State U. | 189 | 60,939 | 13 | 904 | 49,659 | 401 | 1,974 | 192 | 1,967 | 0 | 5,490 | 339 |
| U. California, Office of the President | 190 | 60,686 | 1,485 | 0 | 46,725 | 0 | 8,123 | 0 | 0 | 4,353 | 0 | 0 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|---|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Van Andel Research Institute | 191 | 58,982 | 0 | 0 | 58,982 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East Carolina U. | 192 | 57,820 | 828 | 4,586 | 33,206 | 75 | 2,168 | 1,321 | 1,886 | 0 | 3,053 | 10,697 |
| Rochester Institute of Technology | 193 | 57,777 | 8,910 | 0 | 1,238 | 2,040 | 13,830 | 60 | 2,584 | 0 | 20,910 | 8,205 |
| U. Texas Rio Grande Valley | 194 | 56,702 | 1,520 | 1,769 | 28,351 | 2,174 | 5,148 | 917 | 3,660 | 53 | 4,018 | 9,092 |
| U. Maryland Center for Environmental Science | 195 | 54,560 | 2 | 43,554 | 9,194 | 5 | 541 | 0 | 216 | 42 | 122 | 884 |
| U. Toledo | 196 | 54,100 | 0 | 5,748 | 27,748 | 49 | 7,445 | 452 | 378 | 0 | 10,023 | 2,257 |
| Florida Atlantic U. | 197 | 53,845 | 2,586 | 1,186 | 28,725 | 1,268 | 3,147 | 2,306 | 210 | 0 | 10,574 | 3,843 |
| Ohio U. | 198 | 51,914 | 703 | 1,697 | 15,375 | 90 | 5,370 | 1,827 | 960 | 56 | 16,291 | 9,545 |
| U. South Alabama | 199 | 51,102 | 3,846 | 5,011 | 36,664 | 80 | 433 | 311 | 586 | 0 | 3,640 | 531 |
| Kent State U. | 200 | 50,307 | 1,766 | 958 | 8,335 | 1,309 | 8,381 | 4,776 | 4,793 | 868 | 2,743 | 16,378 |
| U. North Carolina, Charlotte | 201 | 50,050 | 10,163 | 1,009 | 4,512 | 1,029 | 4,003 | 711 | 3,973 | 0 | 19,781 | 4,869 |
| Wright State U. | 202 | 49,825 | 2,034 | 210 | 13,515 | 145 | 1,774 | 1,525 | 0 | 252 | 29,519 | 851 |
| Mercer U. | 203 | 49,116 | 136 | 0 | 8,624 | 224 | 2,038 | 258 | 81 | 144 | 37,450 | 161 |
| U. North Texas, Health Science Center | 204 | 47,392 | 0 | 0 | 46,526 | 0 | 0 | 0 | 866 | 0 | 0 | 0 |
| San Jose State U. | 205 | 47,301 | 10 | 13,747 | 1,542 | 0 | 2,445 | 19,670 | 190 | 7 | 2,863 | 6,827 |
| Missouri U. of Science and Technology | 206 | 47,001 | 2,648 | 0 | 971 | 222 | 6,107 | 173 | 61 | 184 | 36,447 | 188 |
| U. California, Merced | 207 | 45,966 | 194 | 2,943 | 9,333 | 3,047 | 7,593 | 1,712 | 2,988 | 420 | 15,191 | 2,545 |
| CUNY, City C. | 208 | 45,632 | 1,490 | 1,699 | 7,167 | 389 | 9,591 | 693 | 6 | 0 | 23,140 | 1,457 |
| Howard U. | 209 | 44,933 | 1,523 | 225 | 25,750 | 230 | 5,308 | 1,878 | 827 | 0 | 8,336 | 856 |
| Stevens Institute of Technology | 210 | 44,747 | 3,606 | 3,527 | 203 | 37 | 1,834 | 0 | 0 | 330 | 33,103 | 2,107 |
| Texas Tech U., Health Sciences Center | 211 | 44,135 | 0 | 0 | 43,102 | 0 | 0 | 0 | 0 | 0 | 0 | 1,033 |
| Portland State U. | 212 | 43,667 | 1,164 | 2,212 | 13,547 | 1,115 | 2,326 | 1,766 | 3,882 | 923 | 6,719 | 10,013 |
| Louisiana State U., Health Sciences Center, New Orleans | 213 | 43,419 | 0 | 0 | 43,419 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Boise State U. | 214 | 43,307 | 1,761 | 3,660 | 10,616 | 1,137 | 3,788 | 171 | 3,200 | 630 | 13,956 | 4,388 |
| Worcester Polytechnic Institute | 215 | 43,092 | 10,150 | 0 | 2,104 | 1,404 | 2,773 | 0 | 1,760 | 0 | 23,758 | 1,143 |
| Southern Methodist U. | 216 | 43,081 | 683 | 6,100 | 2,144 | 1,291 | 3,847 | 1,457 | 326 | 1,236 | 9,798 | 16,199 |
| U.S. Air Force Academy | 217 | 42,197 | 490 | 0 | 0 | 0 | 2,714 | 0 | 292 | 0 | 29,812 | 8,889 |
| Southern Illinois U., Carbondale | 218 | 41,617 | 396 | 848 | 33,480 | 278 | 2,013 | 223 | 954 | 1,092 | 2,333 | 0 |
| SUNY, Upstate Medical U. | 219 | 41,557 | 0 | 0 | 41,557 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. Denver | 220 | 41,349 | 99 | 168 | 4,889 | 120 | 4,913 | 5,870 | 2,092 | 0 | 4,461 | 18,737 |
| Florida A&M U. | 221 | 41,319 | 102 | 5,844 | 21,450 | 0 | 1,410 | 242 | 21 | 329 | 4,796 | 7,125 |
| U. West Florida | 222 | 40,051 | 1,995 | 875 | 2,081 | 313 | 576 | 142 | 4,236 | 0 | 278 | 29,555 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|--|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Baylor U. | 223 | 39,765 | 1,011 | 2,185 | 7,456 | 933 | 6,993 | 2,726 | 1,945 | 3,549 | 4,515 | 8,452 |
| Loyola U., Chicago | 224 | 39,365 | 160 | 121 | 35,073 | 188 | 763 | 1,105 | 800 | 0 | 0 | 1,155 |
| Brigham Young U., Provo | 225 | 38,569 | 1,350 | 461 | 9,218 | 348 | 5,268 | 298 | 924 | 0 | 15,943 | 4,759 |
| CUNY, Hunter C. | 226 | 38,345 | 1,726 | 1,339 | 8,957 | 174 | 4,197 | 14,507 | 3,051 | 0 | 0 | 4,394 |
| Lehigh U. | 227 | 38,064 | 2,333 | 1,510 | 4,121 | 228 | 3,495 | 561 | 95 | 30 | 24,054 | 1,637 |
| U. Puerto Rico, Medical Sciences Campus | 228 | 37,217 | 0 | 136 | 37,081 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Marquette U. | 229 | 37,136 | 834 | 0 | 11,696 | 1,734 | 2,681 | 1,140 | 1,008 | 0 | 10,059 | 7,984 |
| U. Missouri, Kansas City | 230 | 36,356 | 1,625 | 308 | 20,183 | 14 | 1,680 | 1,064 | 907 | 563 | 8,351 | 1,661 |
| North Carolina Agricultural and Technical State U. | 231 | 36,151 | 1,742 | 31 | 16,663 | 818 | 1,638 | 30 | 67 | 0 | 10,393 | 4,769 |
| Air Force Institute of Technology | 232 | 35,584 | 2,441 | 742 | 0 | 658 | 7,796 | 0 | 0 | 0 | 23,947 | 0 |
| SUNY, Downstate Medical Center | 233 | 33,204 | 0 | 0 | 33,204 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| San Francisco State U. | 234 | 33,078 | 869 | 4,450 | 13,391 | 1,060 | 3,200 | 1,375 | 3,760 | 1,344 | 1,330 | 2,299 |
| Texas A&M U.-Corpus Christi | 235 | 32,284 | 222 | 11,900 | 6,975 | 21 | 1,437 | 0 | 151 | 476 | 7,064 | 4,038 |
| Illinois State U. | 236 | 32,260 | 65 | 791 | 3,183 | 229 | 567 | 20 | 2,351 | 0 | 0 | 25,054 |
| Morehouse School of Medicine | 237 | 29,813 | 0 | 0 | 29,813 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUNY, C. of Environmental Science and Forestry | 238 | 29,296 | 119 | 1,211 | 26,083 | 0 | 294 | 180 | 110 | 91 | 912 | 296 |
| U. South Dakota | 239 | 29,279 | 799 | 5 | 17,172 | 160 | 4,054 | 687 | 504 | 0 | 1,385 | 4,513 |
| Illinois Institute of Technology | 240 | 29,122 | 2,988 | 398 | 9,993 | 405 | 3,143 | 0 | 100 | 42 | 11,934 | 119 |
| U. North Carolina, Greensboro | 241 | 28,966 | 510 | 0 | 7,582 | 215 | 3,505 | 2,805 | 747 | 0 | 0 | 13,602 |
| Rutgers, State U. New Jersey, Newark | 242 | 28,006 | 2,269 | 1,485 | 13,014 | 0 | 2,384 | 2,132 | 1,678 | 156 | 0 | 4,888 |
| U. Massachusetts, Dartmouth | 243 | 26,836 | 1,572 | 10,917 | 1,467 | 717 | 2,116 | 94 | 499 | 0 | 7,944 | 1,510 |
| Chapman U. | 244 | 26,660 | 665 | 212 | 7,307 | 1 | 2,062 | 888 | 2,714 | 0 | 102 | 12,709 |
| California Polytechnic State U., San Luis Obispo | 245 | 26,605 | 626 | 1,105 | 7,929 | 2,841 | 5,672 | 185 | 675 | 0 | 4,646 | 2,926 |
| Louisiana Tech U. | 246 | 26,585 | 2,475 | 84 | 2,510 | 771 | 1,775 | 571 | 726 | 0 | 11,459 | 6,214 |
| U. Puerto Rico, Mayaguez | 247 | 26,553 | 0 | 5,487 | 1,881 | 45 | 1,347 | 0 | 233 | 0 | 16,903 | 657 |
| Desert Research Institute | 248 | 26,428 | 0 | 22,889 | 3,539 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. Minnesota, Duluth | 249 | 26,137 | 289 | 2,480 | 19,580 | 152 | 840 | 25 | 82 | 0 | 2,186 | 503 |
| Nova Southeastern U. | 250 | 26,035 | 146 | 11,436 | 13,298 | 0 | 0 | 596 | 0 | 0 | 0 | 559 |
| Rowan U. | 251 | 26,018 | 482 | 409 | 11,115 | 0 | 664 | 504 | 311 | 0 | 11,784 | 749 |
| Villanova U. | 252 | 25,505 | 527 | 826 | 3,438 | 60 | 3,573 | 1,141 | 656 | 0 | 10,193 | 5,091 |
| Northern Illinois U. | 253 | 25,420 | 661 | 553 | 2,319 | 76 | 5,560 | 1,057 | 4,982 | 0 | 1,467 | 8,745 |
| Louisiana State U., Health Sciences Center, Shreveport | 254 | 25,321 | 0 | 0 | 25,321 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|---|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Catholic U. of America | 255 | 25,221 | 0 | 0 | 2,000 | 0 | 17,669 | 347 | 502 | 63 | 3,518 | 1,122 |
| Loma Linda U. | 256 | 25,077 | i | 0 | 25,077 | i | 0 | 0 | 0 | 0 | 0 | 0 |
| California State U., Sacramento | 257 | 24,939 | 178 | 839 | 1,328 | 94 | 296 | 310 | 7,680 | 2,956 | 7,744 | 3,514 |
| New Mexico Institute of Mining and Technology | 258 | 24,591 | 2,780 | 6,729 | 260 | 53 | 1,361 | 0 | 0 | 0 | 13,084 | 324 |
| Western Michigan U. and Homer Stryker M.D. School of Medicine | 259 | 24,541 | 145 | 1,402 | 6,999 | 40 | 1,309 | 191 | 169 | 4 | 5,091 | 9,191 |
| Miami U. | 260 | 24,489 | 721 | 1,354 | 12,044 | 310 | 1,329 | 1,685 | 582 | 0 | 3,783 | 2,681 |
| Delaware State U. | 261 | 23,876 | i | 1 | 14,314 | i | 865 | i | 1 | 176 | 549 | i |
| U. Nebraska, central administration | 262 | 23,672 | 1,385 | 0 | 13,089 | 0 | 0 | 0 | 0 | 0 | 8,340 | 858 |
| Albany Medical C. | 263 | 23,510 | 0 | 0 | 23,510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. Akron | 264 | 23,496 | 1 | 285 | 1,882 | 82 | 8,576 | 328 | 95 | 1 | 11,345 | 901 |
| U. Puerto Rico, Rio Piedras | 265 | 22,895 | 207 | 3,754 | 3,617 | 145 | 4,429 | 0 | 1,119 | 4,276 | 341 | 5,007 |
| Texas A&M U.-Kingsville | 266 | 22,745 | 0 | 849 | 16,722 | 0 | 164 | 98 | 0 | 82 | 2,653 | 2,177 |
| U. Alaska, Anchorage | 267 | 22,713 | 165 | 7,339 | 6,857 | 0 | 184 | 181 | 3,306 | 2,990 | 1,101 | 590 |
| Teachers C., Columbia U. | 268 | 22,630 | 2,459 | 0 | 4,455 | 0 | 0 | 1,387 | 13,869 | 0 | 0 | 460 |
| Marshall U. | 269 | 22,250 | 287 | 258 | 16,302 | 1 | 1,030 | 0 | 5 | 0 | 1,137 | 3,230 |
| U. Texas Health Science Center, Tyler | 270 | 21,265 | 0 | 0 | 21,265 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California State U., Northridge | 271 | 21,228 | 201 | 2,158 | 6,822 | 980 | 5,407 | 473 | 559 | 1,690 | 1,115 | 1,823 |
| Tuskegee U. | 272 | 20,973 | 409 | 0 | 8,145 | 1,240 | 166 | 0 | 4,907 | 184 | 5,922 | 0 |
| Eastern Virginia Medical School | 273 | 20,870 | 0 | 0 | 20,870 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fordham U. | 274 | 20,456 | 390 | 0 | 1,435 | 173 | 747 | 1,632 | 1,095 | 0 | 0 | 14,984 |
| Creighton U. | 275 | 20,339 | 730 | i | 465 | i | 14,845 | i | 204 | i | 1,463 | i |
| New York Medical C. | 276 | 20,137 | 0 | 0 | 20,137 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. Tulsa | 277 | 18,787 | 3,139 | 213 | 678 | 4 | 424 | 604 | 243 | 0 | 13,182 | 300 |
| Bowling Green State U. | 278 | 18,729 | 274 | 1,903 | 1,766 | 532 | 2,326 | 1,444 | 3,333 | 0 | 121 | 7,030 |
| Prairie View A&M U. | 279 | 18,723 | 292 | 62 | 8,280 | 145 | 1,353 | 536 | 213 | 0 | 5,222 | 2,620 |
| Southern Illinois U., Edwardsville | 280 | 18,273 | 151 | 1,979 | 8,190 | 817 | 911 | 0 | 286 | 502 | 1,424 | 4,013 |
| Florida Institute of Technology | 281 | 18,271 | 4,287 | 2,310 | 667 | 188 | 2,777 | 1,652 | 0 | 33 | 5,362 | 995 |
| U. South Florida, Saint Petersburg | 282 | 18,243 | 0 | 0 | 1,120 | 0 | 56 | 1,413 | 3 | 0 | 0 | 15,651 |
| Kennesaw State U. | 283 | 17,954 | 3,727 | 0 | 5,740 | 107 | 1,019 | 38 | 2,096 | 350 | 1,478 | 3,399 |
| Embry-Riddle Aeronautical U. | 284 | 17,786 | 526 | 1,336 | 17 | 84 | 2,744 | 0 | 714 | 0 | 12,015 | 350 |
| Montclair State U. | 285 | 17,636 | 535 | 1,262 | 3,277 | 726 | 589 | 2,060 | 2,138 | 3 | 14 | 7,032 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|--|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Ponce Health Sciences U. | 318 | 13,566 | 0 | 0 | 13,566 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California State U., San Marcos | 319 | 13,250 | 987 | 47 | 1,888 | 82 | 1,667 | 1,261 | 884 | 2,694 | 2,408 | 1,332 |
| New School | 320 | 13,186 | 6 | 537 | 324 | 0 | 0 | 1,249 | 3,790 | 144 | 3,205 | 3,931 |
| Missouri State U. | 321 | 13,131 | 53 | 95 | 1,812 | 0 | 418 | 28 | 357 | 0 | 10,257 | 111 |
| U.S. Naval Academy | 322 | 13,123 | 1,519 | 775 | 0 | 1,013 | 2,144 | 0 | 0 | 0 | 7,376 | 296 |
| U. Guam | 323 | 13,043 | 0 | 2,696 | 9,824 | 0 | 0 | 0 | 154 | 0 | 0 | 369 |
| Montana Technological U. | 324 | 12,987 | 0 | 7,825 | 708 | 0 | 123 | 0 | 0 | 0 | 4,331 | 0 |
| Oakland U. | 325 | 12,949 | 1,073 | 0 | 5,653 | 34 | 4,821 | 184 | 45 | 0 | 1,041 | 98 |
| Western Washington U. | 326 | 12,823 | 318 | 3,897 | 958 | 347 | 1,323 | 1,213 | 690 | 580 | 989 | 2,508 |
| U.S. Military Academy | 327 | 12,473 | 469 | 98 | 421 | 0 | 814 | 120 | 284 | 4,369 | 5,297 | 601 |
| Sam Houston State U. | 328 | 12,437 | 18 | 72 | 1,730 | 338 | 481 | 602 | 2,444 | 53 | 20 | 6,679 |
| CUNY, Graduate School of Public Health and Health Policy | 329 | 12,177 | 0 | 0 | 10,899 | 0 | 0 | 1,278 | 0 | 0 | 0 | 0 |
| Georgia Southern U. | 330 | 12,166 | 65 | 719 | 1,664 | 67 | 5,465 | 27 | 113 | 0 | 1,929 | 2,117 |
| Bryn Mawr C. | 331 | 11,575 | 691 | 260 | 705 | 561 | 1,423 | 295 | 1,573 | 0 | 0 | 6,067 |
| Hampton U. | 332 | 11,402 | 699 | 3,454 | 1,745 | 226 | 3,142 | 0 | 710 | 0 | 866 | 560 |
| Xavier U. Louisiana | 333 | 11,387 | 100 | 0 | 3,929 | 0 | 7,186 | 55 | 0 | 0 | 65 | 52 |
| CUNY, Advanced Science Research Center | 334 | 11,373 | 0 | 104 | 4,679 | 0 | 4,154 | 0 | 0 | 0 | 2,289 | 147 |
| U. Tennessee, Chattanooga | 335 | 10,834 | 975 | 0 | 1,036 | 189 | 52 | 242 | 68 | 3,179 | 3,319 | 1,774 |
| California State U., San Bernardino | 336 | 10,819 | 472 | 87 | 948 | 633 | 1,569 | 1,775 | 320 | 13 | 1,598 | 3,404 |
| California State U., Los Angeles | 337 | 10,590 | 36 | 0 | 2,299 | 10 | 5,241 | 110 | 1,570 | 0 | 922 | 402 |
| Midwestern U. | 338 | 10,479 | 0 | 0 | 10,479 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas Tech U., Health Sciences Center, El Paso | 339 | 10,421 | 0 | 0 | 10,294 | 0 | 0 | 0 | 0 | 0 | 0 | 127 |
| Clark U. | 340 | 10,277 | 60 | 1,890 | 1,953 | 0 | 1,648 | 622 | 3,575 | 47 | 0 | 482 |
| James Madison U. | 341 | 10,247 | 325 | 753 | 1,844 | 159 | 1,337 | 1,379 | 37 | 30 | 305 | 4,078 |
| Rhode Island C. | 342 | 10,094 | 63 | 0 | 808 | 0 | 361 | 171 | 35 | 0 | 0 | 8,656 |
| Virginia State U. | 343 | 10,014 | 0 | 0 | 6,123 | 645 | 0 | 0 | 0 | 0 | 1,058 | 2,188 |
| U. Arkansas, Little Rock | 344 | 9,711 | 3,246 | 0 | 2,878 | 0 | 1,105 | 0 | 27 | 0 | 1,627 | 828 |
| St. Edward's U. | 345 | 9,619 | 1,150 | 528 | 1,620 | 645 | 1,074 | 20 | 340 | 0 | 0 | 4,242 |
| William Paterson U. | 346 | 9,603 | 125 | 579 | 1,210 | 185 | 361 | 944 | 1,568 | 0 | 0 | 4,631 |
| Salisbury U. | 347 | 9,496 | 346 | 891 | 2,366 | 113 | 212 | 19 | 485 | 0 | 0 | 5,064 |
| Ball State U. | 348 | 9,429 | 1,263 | 9 | 2,738 | 51 | 834 | 214 | 1,662 | 0 | 0 | 2,658 |
| Claremont Graduate U. | 349 | 9,403 | 207 | 0 | 0 | 70 | 0 | 966 | 3,122 | 0 | 0 | 5,038 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|---|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Eastern Michigan U. | 350 | 9,088 | 376 | 172 | 3,498 | 216 | 690 | 183 | 1,039 | 8 | 402 | 2,504 |
| California State U., East Bay | 351 | 9,072 | 329 | 1,029 | 1,103 | 896 | 939 | 410 | 677 | 0 | 132 | 3,557 |
| California State U., Fresno | 352 | 8,856 | 117 | 147 | 4,306 | 412 | 1,127 | 34 | 456 | 0 | 1,748 | 509 |
| U. Michigan, Dearborn | 353 | 8,777 | 11 | 0 | 382 | 155 | 135 | 112 | 114 | 144 | 7,088 | 636 |
| Alabama A&M U. | 354 | 8,749 | 301 | 0 | 5,142 | 83 | 636 | 174 | 298 | 0 | 1,603 | 512 |
| Middle Tennessee State U. | 355 | 8,697 | 245 | 48 | 2,029 | 39 | 596 | 58 | 1,583 | 0 | 182 | 3,917 |
| Arkansas State U., Jonesboro | 356 | 8,640 | 290 | 0 | 6,636 | 4 | 876 | 55 | 148 | 257 | 371 | 3 |
| U. San Diego | 357 | 8,607 | 0 | 163 | 217 | 225 | 1,496 | 190 | 289 | 68 | 1,252 | 4,707 |
| U. Arkansas, Pine Bluff | 358 | 8,540 | 0 | 0 | 7,415 | 0 | 540 | 0 | 0 | 572 | 0 | 13 |
| Clark Atlanta U. | 359 | 8,452 | 183 | 0 | 6,017 | 194 | 1,649 | 0 | 58 | 0 | 158 | 193 |
| Oklahoma State U., Center for Health Sciences | 360 | 8,378 | 95 | 0 | 7,616 | 0 | 0 | 373 | 0 | 0 | 258 | 36 |
| Wesleyan U. | 361 | 8,300 | 0 | 821 | 909 | 533 | 2,383 | 871 | 454 | 0 | 0 | 2,329 |
| Western Kentucky U. | 362 | 8,241 | 13 | 842 | 2,888 | 27 | 1,785 | 672 | 106 | 0 | 689 | 1,219 |
| U. Maryland, Eastern Shore | 363 | 8,092 | 0 | 3,454 | 2,572 | 0 | 1,243 | 0 | 695 | 0 | 128 | 0 |
| Wellesley C. | 364 | 8,088 | 431 | 161 | 1,455 | 255 | 391 | 229 | 1,402 | 0 | 633 | 3,131 |
| Kentucky State U. | 365 | 7,963 | 32 | 0 | 7,806 | 125 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. Oklahoma, Tulsa | 366 | 7,483 | 0 | 0 | 2,633 | 0 | 0 | 0 | 142 | 0 | 1,816 | 2,892 |
| Edward Via C. of Osteopathic Medicine | 367 | 7,475 | 0 | 0 | 7,475 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California State Polytechnic U., Pomona | 368 | 7,396 | 653 | 68 | 2,656 | 138 | 1,395 | 0 | 39 | 327 | 1,875 | 245 |
| Loyola Marymount U. | 369 | 7,193 | 24 | 489 | 591 | 187 | 233 | 1,515 | 1,285 | 0 | 165 | 2,704 |
| Norfolk State U. | 370 | 7,153 | 4,921 | 0 | 114 | 48 | 726 | 0 | 0 | 0 | 1,312 | 32 |
| U. Washington, Bothell | 371 | 7,107 | 41 | 371 | 558 | 31 | 156 | 0 | 0 | 103 | 0 | 5,847 |
| CUNY, Brooklyn C. | 372 | 7,074 | 403 | 645 | 2,519 | 221 | 1,105 | 1,264 | 243 | 0 | 118 | 556 |
| Azusa Pacific U. | 373 | 7,068 | 148 | 0 | 2,002 | 64 | 205 | 885 | 274 | 0 | 31 | 3,459 |
| California State U., Bakersfield | 374 | 7,053 | 0 | 176 | 245 | 3,173 | 91 | 504 | 264 | 0 | 1,449 | 1,151 |
| U. Hawaii, Hilo | 375 | 6,992 | 1 | 894 | 4,149 | 1,126 | 217 | 0 | 207 | 363 | 0 | 35 |
| U. New England | 376 | 6,886 | 0 | 936 | 5,904 | 0 | 26 | 6 | 9 | 0 | 0 | 5 |
| Grand Valley State U. | 377 | 6,792 | 9 | 2,887 | 1,914 | 166 | 374 | 63 | 657 | 48 | 236 | 438 |
| Florida Gulf Coast U. | 378 | 6,671 | 41 | 1,654 | 760 | 232 | 397 | 0 | 118 | 2 | 250 | 3,217 |
| DePaul U. | 379 | 6,557 | 1,528 | 91 | 465 | 0 | 305 | 3,343 | 22 | 0 | 0 | 803 |
| Indiana U. Pennsylvania | 380 | 6,531 | 331 | 161 | 1,251 | 26 | 425 | 630 | 842 | 2 | 0 | 2,863 |
| West Chester U. Pennsylvania | 381 | 6,414 | 7 | 65 | 1,072 | 196 | 425 | 205 | 892 | 0 | 0 | 3,552 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|---|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| West Texas A&M U. | 382 | 6,220 | 210 | 219 | 3,570 | 1 | 211 | 0 | 0 | 0 | 1,277 | 732 |
| Central State U. | 383 | 6,107 | 0 | 126 | 5,451 | 37 | 6 | 0 | 0 | 321 | 166 | 0 |
| Naval War C. | 384 | 5,944 | 0 | 0 | 0 | 0 | 0 | 0 | 724 | 0 | 0 | 5,220 |
| California State U., Fullerton | 385 | 5,929 | 83 | 329 | 2,440 | 11 | 1,254 | 106 | 110 | 508 | 616 | 472 |
| Western U. of Health Sciences | 386 | 5,899 | 0 | 0 | 4,866 | 0 | 0 | 0 | 0 | 0 | 0 | 1,033 |
| Toyota Technological Institute, Chicago | 387 | 5,887 | 5,887 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California State U., Monterey Bay | 388 | 5,874 | 1,023 | 1,281 | 3,225 | 234 | 0 | 0 | 0 | 0 | 0 | 111 |
| Claremont McKenna C. | 389 | 5,846 | 0 | 29 | 400 | 85 | 144 | 157 | 4,545 | 43 | 0 | 443 |
| Pacific U. | 390 | 5,842 | 0 | 0 | 3,852 | 42 | 120 | 2 | 90 | 434 | 0 | 1,302 |
| Purdue U., Northwest | 391 | 5,839 | 524 | 0 | 988 | 0 | 207 | 39 | 9 | 127 | 2,521 | 1,424 |
| Grinnell C. | 392 | 5,826 | 357 | 0 | 487 | 407 | 742 | 173 | 755 | 0 | 0 | 2,905 |
| U. Central Oklahoma | 393 | 5,788 | 132 | 0 | 366 | 126 | 696 | 0 | 0 | 101 | 1 | 4,366 |
| Winston-Salem State U. | 394 | 5,781 | 443 | 0 | 2,400 | 5 | 554 | 252 | 724 | 0 | 0 | 1,403 |
| Lincoln U., Jefferson City | 395 | 5,777 | 0 | 0 | 5,404 | 150 | 26 | 0 | 92 | 105 | 0 | 0 |
| West Virginia State U. | 396 | 5,775 | 110 | 0 | 5,199 | 0 | 357 | 0 | 0 | 0 | 109 | 0 |
| C. Charleston | 397 | 5,728 | 162 | 1,048 | 1,128 | 81 | 700 | 42 | 113 | 801 | 67 | 1,586 |
| Seton Hall U. | 398 | 5,718 | 0 | 0 | 138 | 0 | 401 | 0 | 0 | 0 | 0 | 5,179 |
| U. Southern Maine | 399 | 5,635 | 1,190 | 42 | 880 | 0 | 0 | 0 | 2,963 | 78 | 27 | 455 |
| U. Colorado Colorado Springs | 400 | 5,557 | 1,035 | 173 | 845 | 11 | 270 | 226 | 124 | 334 | 1,367 | 1,172 |
| Southern Connecticut State U. | 401 | 5,413 | 11 | 253 | 1,308 | 35 | 846 | 366 | 505 | 202 | 0 | 1,887 |
| Bucknell U. | 402 | 5,339 | 189 | 89 | 578 | 399 | 512 | 144 | 112 | 284 | 1,550 | 1,482 |
| U. Massachusetts, central office | 403 | 5,225 | 0 | 0 | 545 | 0 | 0 | 0 | 1,818 | 1,909 | 0 | 953 |
| Reed C. | 404 | 5,155 | 68 | 0 | 1,573 | 223 | 886 | 473 | 439 | 0 | 0 | 1,493 |
| Des Moines U. | 405 | 5,021 | 0 | 197 | 3,637 | 0 | 0 | 0 | 561 | 0 | 0 | 626 |
| Williams C. | 406 | 4,924 | 110 | 195 | 686 | 401 | 1,245 | 85 | 827 | 0 | 0 | 1,375 |
| Fort Valley State U. | 407 | 4,921 | 0 | 0 | 4,581 | 184 | 72 | 0 | 0 | 0 | 84 | 0 |
| Amherst C. | 408 | 4,906 | 25 | 439 | 1,064 | 340 | 1,534 | 101 | 488 | 0 | 0 | 915 |
| Appalachian State U. | 409 | 4,894 | 336 | 499 | 1,879 | 90 | 408 | 344 | 585 | 0 | 0 | 753 |
| U. of Health Sciences and Pharmacy in St. Louis | 410 | 4,835 | 0 | 0 | 4,835 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Morehouse C. | 411 | 4,825 | 1,141 | 0 | 120 | 166 | 1,517 | 42 | 3 | 1,697 | 0 | 139 |
| U. North Carolina, Asheville | 412 | 4,789 | 310 | 84 | 1,559 | 0 | 958 | 18 | 2 | 0 | 1 | 1,857 |
| CUNY, Graduate Center | 413 | 4,787 | 0 | 0 | 116 | 23 | 630 | 576 | 2,238 | 0 | 30 | 1,174 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|--|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| U. Detroit Mercy | 414 | 4,786 | 20 | 0 | 4,337 | 140 | 5 | 135 | 0 | 0 | 119 | 30 |
| Texas Southern U. | 415 | 4,782 | 159 | 189 | 2,673 | 204 | 661 | 0 | 0 | 0 | 93 | 803 |
| U. Wisconsin-Stevens Point | 416 | 4,764 | 0 | 226 | 4,317 | 0 | 105 | 0 | 5 | 0 | 60 | 51 |
| Smith C. | 417 | 4,685 | 391 | 36 | 1,783 | 182 | 321 | 226 | 151 | 5 | 952 | 638 |
| Gallaudet U. | 418 | 4,599 | 486 | 10 | 1,239 | 3 | 5 | 988 | 173 | 0 | 0 | 1,695 |
| U. of the District of Columbia | 419 | 4,590 | 79 | 41 | 2,157 | 277 | 0 | 0 | 0 | 0 | 1,388 | 648 |
| National Defense U. | 420 | 4,583 | 0 | 0 | 200 | 0 | 0 | 0 | 2,383 | 0 | 0 | 2,000 |
| Southern U. and A&M C., Agricultural Research and Extension Center | 421 | 4,475 | 0 | 0 | 4,475 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Haverford C. | 422 | 4,473 | 101 | 229 | 926 | 127 | 2,581 | 173 | 336 | 0 | 0 | 0 |
| Dakota State U. | 423 | 4,412 | 4,337 | 18 | 48 | 0 | 0 | 0 | 9 | 0 | 0 | 0 |
| Roseman U. of Health Sciences | 424 | 4,380 | 0 | 0 | 4,380 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lamar U. | 425 | 4,327 | 74 | 0 | 285 | 55 | 80 | 0 | 20 | 0 | 1,825 | 1,988 |
| California State U., Chico | 426 | 4,305 | 10 | 395 | 1,466 | 57 | 182 | 15 | 426 | 0 | 1,120 | 634 |
| Pace U. | 427 | 4,272 | 1,043 | 0 | 1,166 | 6 | 138 | 16 | 192 | 0 | 516 | 1,195 |
| Oregon Institute of Technology | 428 | 4,267 | 37 | 312 | 1,741 | 77 | 0 | 122 | 0 | 0 | 679 | 1,299 |
| Stockton U. | 429 | 4,236 | 6 | 2,789 | 195 | 13 | 54 | 1 | 140 | 0 | 0 | 1,038 |
| Texas A&M U.-Commerce | 430 | 4,166 | 94 | 0 | 924 | 26 | 939 | 374 | 139 | 0 | 48 | 1,622 |
| CUNY, Lehman C. | 431 | 4,154 | 476 | 37 | 256 | 271 | 2,208 | 1 | 180 | 0 | 0 | 725 |
| Texas Woman's U. | 432 | 4,135 | 14 | 0 | 2,259 | 23 | 204 | 488 | 200 | 50 | 0 | 897 |
| Youngstown State U. | 433 | 4,120 | 6 | 2 | 101 | 6 | 346 | 12 | 32 | 0 | 3,491 | 124 |
| Rutgers, State U. New Jersey, Camden | 434 | 3,950 | 1,848 | 0 | 225 | 94 | 354 | 97 | 733 | 0 | 0 | 599 |
| U. North Carolina, general administration | 435 | 3,942 | 1,168 | 0 | 222 | 0 | 75 | 0 | 0 | 0 | 2,467 | 10 |
| U. Central del Caribe | 436 | 3,931 | 0 | 0 | 3,931 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fisk U. | 437 | 3,904 | 93 | 0 | 3,585 | 12 | 212 | 0 | 2 | 0 | 0 | 0 |
| Southern U. and A&M C., Baton Rouge | 438 | 3,849 | 202 | 0 | 338 | 5 | 735 | 0 | 528 | 0 | 1,424 | 617 |
| U. New Haven | 439 | 3,843 | 602 | 143 | 40 | 4 | 285 | 22 | 2,107 | 0 | 533 | 107 |
| Hope C. | 440 | 3,822 | 28 | 20 | 636 | 68 | 1,315 | 242 | 673 | 0 | 175 | 665 |
| South Carolina State U. | 441 | 3,796 | 104 | 0 | 1,367 | 0 | 965 | 0 | 0 | 0 | 687 | 673 |
| Albany C. of Pharmacy and Health Sciences | 442 | 3,765 | 0 | 0 | 3,765 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. of the Sciences Philadelphia | 443 | 3,761 | 0 | 0 | 3,181 | 0 | 580 | 0 | 0 | 0 | 0 | 0 |
| Barnard C. | 444 | 3,748 | 149 | 60 | 692 | 27 | 885 | 1,343 | 293 | 0 | 0 | 299 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|--|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| U. Northern Colorado | 445 | 3,738 | 0 | 296 | 1,239 | 181 | 122 | 178 | 346 | 0 | 0 | 1,376 |
| Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences | 446 | 3,737 | 0 | 0 | 3,737 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carleton C. | 447 | 3,732 | 111 | 863 | 334 | 196 | 704 | 86 | 464 | 0 | 0 | 974 |
| CUNY, C. Staten Island | 448 | 3,682 | 66 | 0 | 1,277 | 691 | 860 | 342 | 4 | 0 | 294 | 148 |
| Stephen F. Austin State U. | 449 | 3,672 | 0 | 177 | 1,848 | 129 | 36 | 10 | 250 | 0 | 6 | 1,216 |
| Franklin and Marshall C. | 450 | 3,623 | 7 | 232 | 578 | 52 | 539 | 68 | 440 | 3 | 0 | 1,704 |
| Towson U. | 451 | 3,612 | 603 | 709 | 836 | 179 | 476 | 192 | 264 | 0 | 0 | 353 |
| New York Institute of Technology | 452 | 3,580 | 188 | 0 | 2,757 | 0 | 0 | 0 | 70 | 0 | 458 | 107 |
| Touro U. | 453 | 3,551 | 0 | 0 | 3,539 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| MGH Institute of Health Professions | 454 | 3,549 | 0 | 0 | 3,014 | 0 | 0 | 0 | 0 | 0 | 0 | 535 |
| Swarthmore C. | 455 | 3,544 | 15 | 0 | 841 | 103 | 734 | 117 | 274 | 89 | 367 | 1,004 |
| U. Washington, Tacoma | 456 | 3,504 | 696 | 2,089 | 164 | 47 | 0 | 0 | 124 | 0 | 59 | 325 |
| SUNY, C. of Optometry | 457 | 3,477 | 0 | 0 | 3,477 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Trinity U. | 458 | 3,472 | 50 | 56 | 505 | 84 | 1,230 | 328 | 501 | 0 | 80 | 638 |
| U. Central Arkansas | 459 | 3,455 | 426 | 20 | 785 | 24 | 585 | 93 | 43 | 131 | 0 | 1,348 |
| U. Illinois, Springfield | 460 | 3,406 | 0 | 0 | 5 | 0 | 14 | 2 | 2,838 | 0 | 0 | 547 |
| Philadelphia C. of Osteopathic Medicine | 461 | 3,360 | 0 | 0 | 3,360 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lewis and Clark C. | 462 | 3,350 | 32 | 212 | 651 | 174 | 749 | 69 | 20 | 0 | 0 | 1,443 |
| High Tech High Graduate School of Ed. | 463 | 3,304 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,304 |
| St. John's U., New York | 464 | 3,282 | 9 | 0 | 2,324 | 66 | 405 | 126 | 0 | 0 | 0 | 352 |
| California State U., Maritime Academy | 465 | 3,202 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,202 | 0 |
| Milwaukee School of Engineering | 466 | 3,190 | 0 | 0 | 0 | 0 | 85 | 0 | 0 | 0 | 3,105 | 0 |
| Saint Joseph's U. | 467 | 3,150 | 136 | 0 | 761 | 6 | 194 | 457 | 194 | 0 | 0 | 1,402 |
| Colorado State U., Pueblo | 468 | 3,104 | 0 | 0 | 1,703 | 6 | 18 | 0 | 0 | 0 | 210 | 1,167 |
| Texas A&M International U. | 469 | 3,067 | 80 | 84 | 333 | 1 | 42 | 34 | 59 | 1,009 | 71 | 1,354 |
| St. Cloud State U. | 470 | 3,056 | 75 | 217 | 441 | 0 | 15 | 8 | 206 | 7 | 71 | 2,016 |
| Murray State U. | 471 | 3,019 | 0 | 134 | 2,475 | 198 | 185 | 1 | 0 | 0 | 0 | 26 |
| U. Northern Iowa | 472 | 2,970 | 0 | 142 | 306 | 1 | 911 | 0 | 1,510 | 0 | 0 | 100 |
| Harvey Mudd C. | 473 | 2,916 | 791 | 0 | 520 | 174 | 543 | 0 | 0 | 194 | 628 | 66 |
| Colgate U. | 474 | 2,913 | 188 | 453 | 478 | 84 | 618 | 74 | 268 | 0 | 0 | 750 |
| Pomona C. | 475 | 2,855 | 95 | 274 | 338 | 129 | 872 | 248 | 620 | 6 | 0 | 273 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|-----------------------------|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Austin Peay State U. | 476 | 2,833 | 0 | 596 | 1,333 | 3 | 15 | 3 | 2 | 22 | 0 | 859 |
| Fayetteville State U. | 477 | 2,797 | 131 | 0 | 1,483 | 0 | 260 | 0 | 111 | 0 | 0 | 812 |
| U. Wisconsin-La Crosse | 478 | 2,795 | 68 | 35 | 851 | 112 | 416 | 10 | 1,024 | 54 | 0 | 225 |
| Alfred U. | 479 | 2,780 | 0 | 1 | 52 | 0 | 7 | 0 | 0 | 0 | 2,720 | 0 |
| Yeshiva U. | 480 | 2,763 | 0 | 0 | 2,477 | 0 | 286 | 0 | 0 | 0 | 0 | 0 |
| Minnesota State U., Mankato | 481 | 2,754 | 0 | 1 | 548 | 0 | 52 | 59 | 121 | 72 | 1,486 | 415 |
| Spelman C. | 482 | 2,750 | 34 | 0 | 624 | 48 | 713 | 588 | 129 | 0 | 0 | 614 |
| Bowdoin C. | 483 | 2,719 | 84 | 635 | 1,196 | 29 | 239 | 180 | 191 | 0 | 0 | 165 |
| Northwest Indian C. | 484 | 2,708 | 1 | 1,033 | 103 | 0 | 0 | 0 | 1,044 | 0 | 0 | 527 |
| Western Carolina U. | 485 | 2,696 | 0 | 297 | 1,128 | 11 | 253 | 0 | 292 | 0 | 371 | 344 |
| Northern Kentucky U. | 486 | 2,693 | 13 | 0 | 1,007 | 81 | 778 | 437 | 95 | 0 | 0 | 282 |
| Santa Clara U. | 487 | 2,682 | 107 | 0 | 879 | 22 | 487 | 10 | 116 | 0 | 948 | 113 |
| U. of St. Thomas (MN) | 488 | 2,679 | 17 | 18 | 514 | 43 | 235 | 210 | 34 | 0 | 976 | 632 |
| Central Washington U. | 489 | 2,674 | 58 | 1,525 | 449 | 104 | 306 | 1 | 116 | 0 | 61 | 54 |
| Occidental C. | 490 | 2,657 | 236 | 1,086 | 368 | 58 | 414 | 65 | 190 | 240 | 0 | 0 |
| U. Nebraska, Kearney | 491 | 2,640 | 6 | 5 | 1,953 | 8 | 320 | 30 | 104 | 97 | 1 | 116 |
| Christopher Newport U. | 492 | 2,608 | 0 | 0 | 644 | 7 | 829 | 50 | 148 | 0 | 566 | 364 |
| U. South Carolina, Aiken | 493 | 2,590 | 0 | 119 | 962 | 0 | 51 | 20 | 6 | 0 | 1,331 | 101 |
| Alabama State U. | 494 | 2,582 | 0 | 0 | 1,989 | 0 | 60 | 0 | 0 | 0 | 533 | 0 |
| Dillard U. | 495 | 2,523 | 0 | 0 | 1,323 | 0 | 975 | 0 | 189 | 0 | 0 | 36 |
| Johnson C. Smith U. | 496 | 2,472 | 11 | 0 | 412 | 0 | 300 | 0 | 0 | 0 | 364 | 1,385 |
| U. Richmond | 497 | 2,469 | 0 | 62 | 765 | 106 | 430 | 316 | 394 | 0 | 0 | 396 |
| Western Illinois U. | 498 | 2,461 | 0 | 18 | 1,914 | 1 | 78 | 8 | 199 | 0 | 79 | 164 |
| Grambling State U. | 499 | 2,427 | 0 | 0 | 0 | 3 | 852 | 0 | 0 | 0 | 0 | 1,572 |
| Skidmore C. | 500 | 2,412 | 6 | 632 | 937 | 12 | 363 | 325 | 41 | 0 | 0 | 96 |
| CUNY, Baruch C. | 501 | 2,396 | 46 | 198 | 250 | 325 | 297 | 230 | 897 | 0 | 0 | 153 |
| U. Louisiana, Monroe | 502 | 2,362 | 0 | 46 | 2,104 | 0 | 55 | 0 | 144 | 0 | 0 | 13 |
| Babson C. | 503 | 2,352 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,352 |
| Saginaw Valley State U. | 504 | 2,343 | 7 | 36 | 1,229 | 588 | 35 | 11 | 106 | 12 | 277 | 42 |
| Framingham State U. | 505 | 2,317 | 0 | 0 | 2,060 | 0 | 247 | 10 | 0 | 0 | 0 | 0 |
| Bates C. | 506 | 2,303 | 113 | 119 | 1,247 | 16 | 405 | 173 | 161 | 3 | 0 | 66 |
| U. Wisconsin-Superior | 507 | 2,301 | 0 | 30 | 2,026 | 0 | 0 | 0 | 230 | 0 | 9 | 6 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|--------------------------------------|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| U. Houston-Downtown | 508 | 2,299 | 95 | 94 | 46 | 10 | 72 | 0 | 247 | 82 | 36 | 1,617 |
| Colorado C. | 509 | 2,291 | 0 | 96 | 156 | 23 | 75 | 115 | 363 | 0 | 0 | 1,463 |
| Eastern Washington U. | 510 | 2,282 | 0 | 58 | 422 | 15 | 66 | 47 | 1,613 | 0 | 0 | 61 |
| Purdue U., Fort Wayne | 511 | 2,264 | 0 | 0 | 488 | 69 | 126 | 168 | 22 | 64 | 443 | 884 |
| Davidson C. | 512 | 2,263 | 0 | 0 | 322 | 142 | 242 | 975 | 161 | 0 | 0 | 421 |
| Southeastern Louisiana U. | 513 | 2,258 | 29 | 0 | 941 | 0 | 326 | 0 | 264 | 0 | 4 | 694 |
| SUNY, Buffalo State | 514 | 2,253 | 0 | 895 | 929 | 91 | 3 | 40 | 250 | 0 | 0 | 45 |
| Winthrop U. | 515 | 2,217 | 0 | 0 | 501 | 0 | 317 | 0 | 371 | 11 | 0 | 1,017 |
| Kean U. | 516 | 2,201 | 509 | 301 | 183 | 0 | 39 | 0 | 44 | 0 | 0 | 1,125 |
| Pittsburg State U. | 517 | 2,173 | 0 | 0 | 360 | 0 | 22 | 0 | 132 | 0 | 1,659 | 0 |
| U. San Francisco | 518 | 2,161 | 60 | 106 | 308 | 25 | 72 | 39 | 397 | 144 | 6 | 1,004 |
| Keck Graduate Institute | 519 | 2,152 | 86 | 0 | 1,578 | 23 | 0 | 0 | 0 | 0 | 336 | 129 |
| U. South Florida, Sarasota-Manatee | 520 | 2,150 | 0 | 0 | 162 | 0 | 5 | 158 | 213 | 0 | 0 | 1,612 |
| CUNY, New York City C. of Technology | 521 | 2,130 | 177 | 0 | 496 | 409 | 212 | 0 | 6 | 235 | 367 | 228 |
| Hobart and William Smith Colleges | 522 | 2,114 | 0 | 148 | 1,563 | 83 | 175 | 7 | 31 | 0 | 0 | 107 |
| Suffolk U. | 523 | 2,106 | 0 | 28 | 29 | 0 | 100 | 584 | 0 | 28 | 76 | 1,261 |
| U. Texas of the Permian Basin | 524 | 2,105 | 0 | 0 | 335 | 0 | 24 | 7 | 320 | 36 | 217 | 1,166 |
| Tougaloo C. | 525 | 2,102 | 0 | 0 | 1,741 | 0 | 361 | 0 | 0 | 0 | 0 | 0 |
| Furman U. | 526 | 2,101 | 45 | 47 | 873 | 0 | 925 | 25 | 164 | 0 | 0 | 22 |
| Kettering U. | 527 | 2,081 | 22 | 0 | 53 | 2 | 648 | 0 | 0 | 0 | 1,046 | 310 |
| Sul Ross State U. | 528 | 2,068 | 0 | 22 | 1,595 | 0 | 0 | 0 | 451 | 0 | 0 | 0 |
| California State U., Dominguez Hills | 529 | 2,065 | 700 | 13 | 144 | 116 | 556 | 95 | 186 | 0 | 0 | 255 |
| Seattle U. | 530 | 2,060 | 21 | 42 | 156 | 184 | 165 | 0 | 200 | 0 | 140 | 1,152 |
| U. Ana G. Mendez, Gurabo | 531 | 2,049 | 0 | 0 | 779 | 0 | 362 | 0 | 0 | 0 | 884 | 24 |
| Northeastern Illinois U. | 532 | 2,018 | 39 | 50 | 1,122 | 53 | 66 | 0 | 48 | 0 | 0 | 640 |
| Mount Holyoke C. | 533 | 2,016 | 141 | 0 | 359 | 147 | 496 | 584 | 168 | 0 | 0 | 121 |
| U. Texas, Tyler | 534 | 2,007 | 50 | 2 | 1,302 | 22 | 33 | 110 | 19 | 0 | 344 | 125 |
| Pepperdine U. | 535 | 2,006 | 0 | 0 | 623 | 32 | 56 | 229 | 213 | 0 | 0 | 853 |
| Erikson Institute | 536 | 1,992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,992 |
| U. Wisconsin-Green Bay | 537 | 1,982 | 57 | 90 | 1,114 | 18 | 125 | 34 | 73 | 0 | 338 | 133 |
| U. Puerto Rico, Cayey | 538 | 1,974 | 0 | 0 | 1,092 | 0 | 203 | 53 | 460 | 166 | 0 | 0 |
| Elon U. | 539 | 1,968 | 36 | 0 | 344 | 0 | 83 | 108 | 274 | 0 | 45 | 1,078 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|--------------------------------------|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Bowie State U. | 540 | 1,967 | 682 | 0 | 414 | 0 | 272 | 0 | 0 | 0 | 0 | 599 |
| Northwestern State U. Louisiana | 541 | 1,940 | 272 | 0 | 307 | 19 | 0 | 0 | 738 | 0 | 5 | 599 |
| Clafin U. | 542 | 1,910 | 500 | 37 | 857 | 13 | 258 | 0 | 75 | 0 | 170 | 0 |
| U. North Georgia | 543 | 1,905 | 37 | 133 | 91 | 1 | 91 | 10 | 0 | 0 | 0 | 1,542 |
| Coastal Carolina U. | 544 | 1,903 | 56 | 1,690 | 157 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Palmer C. of Chiropractic, Davenport | 545 | 1,900 | 0 | 0 | 1,900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Liberty U. | 546 | 1,894 | 0 | 0 | 307 | 2 | 0 | 15 | 5 | 0 | 838 | 727 |
| Morehead State U. | 547 | 1,883 | 5 | 16 | 299 | 0 | 0 | 4 | 267 | 0 | 1,271 | 21 |
| Hamilton C. | 548 | 1,869 | 89 | 15 | 81 | 18 | 208 | 100 | 274 | 0 | 0 | 1,084 |
| Pennsylvania State U., Harrisburg | 549 | 1,866 | 130 | 5 | 411 | 0 | 0 | 0 | 1,178 | 0 | 74 | 68 |
| Mercyhurst U. | 550 | 1,850 | 67 | 42 | 1,350 | 19 | 132 | 23 | 84 | 2 | 0 | 131 |
| California State U., Stanislaus | 551 | 1,843 | 331 | 1 | 1,169 | 194 | 17 | 13 | 44 | 0 | 0 | 74 |
| Savannah State U. | 552 | 1,804 | 0 | 728 | 234 | 0 | 50 | 0 | 0 | 153 | 639 | 0 |
| Eastern Connecticut State U. | 553 | 1,799 | 86 | 101 | 381 | 79 | 0 | 141 | 2 | 267 | 0 | 742 |
| Hawaii Pacific U. | 554 | 1,796 | 86 | 220 | 1,248 | 14 | 0 | 0 | 215 | 0 | 13 | 0 |
| U. Wisconsin-Oshkosh | 555 | 1,777 | 60 | 94 | 989 | 17 | 128 | 35 | 53 | 0 | 312 | 89 |
| Macalester C. | 556 | 1,755 | 140 | 390 | 297 | 138 | 377 | 41 | 182 | 0 | 0 | 190 |
| Pennsylvania State U., Behrend | 557 | 1,743 | 119 | 250 | 21 | 21 | 44 | 11 | 15 | 0 | 1,232 | 30 |
| Monmouth U. | 558 | 1,729 | 0 | 1,621 | 88 | 0 | 19 | 0 | 1 | 0 | 0 | 0 |
| Middlebury C. | 559 | 1,720 | 117 | 240 | 615 | 0 | 429 | 245 | 65 | 9 | 0 | 0 |
| SUNY, C. Brockport | 560 | 1,719 | 3 | 353 | 1,197 | 5 | 74 | 0 | 81 | 0 | 0 | 6 |
| U. of the Pacific | 561 | 1,713 | 0 | 0 | 982 | 0 | 307 | 0 | 0 | 312 | 89 | 23 |
| CUNY, system office | 562 | 1,704 | 215 | 39 | 84 | 0 | 0 | 0 | 0 | 0 | 1,132 | 234 |
| Troy U. | 563 | 1,692 | 5 | 49 | 290 | 6 | 1,216 | 3 | 20 | 0 | 0 | 103 |
| CUNY, York C. | 564 | 1,691 | 0 | 527 | 494 | 0 | 568 | 0 | 59 | 0 | 0 | 43 |
| La Sierra U. | 565 | 1,647 | 0 | 0 | 101 | 0 | 1 | 78 | 0 | 0 | 0 | 1,467 |
| SUNY, Geneseo | 566 | 1,642 | 0 | 239 | 131 | 41 | 785 | 208 | 124 | 0 | 0 | 114 |
| Connecticut C. | 567 | 1,598 | 248 | 0 | 275 | 0 | 350 | 208 | 517 | 0 | 0 | 0 |
| Central Connecticut State U. | 568 | 1,572 | 21 | 91 | 131 | 17 | 82 | 8 | 519 | 0 | 120 | 583 |
| Vassar C. | 569 | 1,568 | 400 | 0 | 197 | 357 | 250 | 221 | 128 | 0 | 0 | 15 |
| Willamette U. | 570 | 1,546 | 0 | 4 | 181 | 10 | 269 | 126 | 3 | 72 | 0 | 881 |
| Sonoma State U. | 571 | 1,545 | 8 | 571 | 456 | 141 | 203 | 10 | 40 | 29 | 1 | 86 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|--|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Mills C. | 572 | 1,541 | 0 | 0 | 95 | 16 | 0 | 0 | 18 | 0 | 0 | 1,412 |
| Colby C. | 573 | 1,536 | 14 | 193 | 443 | 30 | 391 | 97 | 222 | 0 | 0 | 146 |
| SUNY, Oswego | 574 | 1,534 | 84 | 73 | 286 | 0 | 314 | 13 | 77 | 528 | 125 | 34 |
| Roger Williams U. | 575 | 1,531 | 0 | 730 | 189 | 30 | 101 | 203 | 2 | 0 | 30 | 246 |
| Northern Michigan U. | 576 | 1,523 | 0 | 91 | 727 | 0 | 35 | 201 | 109 | 0 | 0 | 360 |
| Lawrence Technological U. | 577 | 1,521 | 63 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 806 | 646 |
| Black Hills State U. | 578 | 1,499 | 480 | 0 | 824 | 19 | 116 | 0 | 0 | 0 | 0 | 60 |
| California State U., Channel Islands | 579 | 1,497 | 0 | 0 | 901 | 181 | 39 | 0 | 45 | 233 | 0 | 98 |
| Calvin U. | 579 | 1,497 | i 239 | i 35 | i 496 | i 31 | i 441 | i 0 | i 98 | i 0 | i 104 | i 53 |
| Elizabeth City State U. | 581 | 1,473 | 112 | 176 | 435 | 287 | 0 | 0 | 0 | 0 | 0 | 463 |
| Indiana State U. | 582 | 1,471 | 0 | 120 | 745 | 23 | 160 | 5 | 1 | 10 | 4 | 403 |
| U. of the Incarnate Word | 583 | 1,469 | 0 | 0 | 962 | 148 | 226 | 0 | 0 | 0 | 72 | 61 |
| C. New Jersey | 584 | 1,464 | 194 | 0 | 657 | 6 | 366 | 7 | 54 | 0 | 105 | 75 |
| U. Puerto Rico, Humacao | 585 | 1,456 | 0 | 0 | 255 | 1 | 1,090 | 101 | 0 | 9 | 0 | 0 |
| SUNY, C. Plattsburgh | 586 | 1,452 | 0 | 824 | 465 | 0 | 126 | 0 | 4 | 0 | 0 | 33 |
| Hofstra U. | 587 | 1,445 | 6 | 4 | 575 | 4 | 10 | 15 | 64 | 0 | 299 | 468 |
| U. Hartford | 588 | 1,436 | 5 | 0 | 101 | 131 | 0 | 0 | 0 | 0 | 1,002 | 197 |
| National U. of Natural Medicine | 589 | 1,428 | 0 | 0 | 1,428 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Trinity C., Hartford | 589 | 1,428 | 4 | 0 | 975 | 68 | 50 | 0 | 163 | 0 | 49 | 119 |
| Franklin W. Olin C. of Engineering | 591 | 1,404 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 491 | 913 |
| U. of Mary Washington | 592 | 1,393 | 45 | 97 | 132 | 8 | 62 | 32 | 73 | 0 | 0 | 944 |
| Lafayette C. | 593 | 1,390 | 101 | 8 | 94 | 69 | 388 | 155 | 119 | 0 | 251 | 205 |
| Fort Lewis C. | 594 | 1,370 | 0 | 56 | 297 | 0 | 470 | 0 | 42 | 0 | 505 | 0 |
| U. Houston-Clear Lake | 595 | 1,363 | 111 | 0 | 347 | 0 | 403 | 145 | 120 | 0 | 2 | 235 |
| Marshall B. Ketchum U. | 596 | 1,357 | i 0 | i 0 | i 1,357 | i 0 | i 0 | i 0 | i 0 | i 0 | i 0 | i 0 |
| Wheaton C., Wheaton | 597 | 1,322 | 9 | 130 | 184 | 11 | 150 | 299 | 515 | 0 | 0 | 24 |
| U. Wisconsin-Eau Claire | 598 | 1,318 | 0 | 8 | 126 | 82 | 814 | 173 | 72 | 0 | 0 | 43 |
| West Virginia School of Osteopathic Medicine | 599 | 1,311 | 0 | 0 | 1,303 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Manhattan C. | 600 | 1,307 | 0 | 0 | 66 | 147 | 71 | 0 | 64 | 0 | 716 | 243 |
| U. Alaska, Southeast | 601 | 1,264 | 0 | 222 | 574 | 0 | 55 | 0 | 0 | 376 | 30 | 7 |
| Alaska Pacific U. | 602 | 1,261 | 0 | 1,196 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| U. Michigan, Flint | 603 | 1,247 | 11 | 0 | 222 | 0 | 29 | 0 | 14 | 102 | 376 | 493 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|------------------------------------|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Jacksonville State U. | 604 | 1,244 | 3 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 11 | 1,186 |
| Fairfield U. | 605 | 1,210 | 6 | 1 | 279 | 75 | 153 | 26 | 20 | 7 | 117 | 526 |
| Ithaca C. | 606 | 1,199 | 39 | 6 | 459 | 64 | 378 | 7 | 176 | 0 | 0 | 70 |
| Biola U. | 607 | 1,187 | 42 | 1 | 771 | 11 | 85 | 13 | 40 | 0 | 167 | 57 |
| Oberlin C. | 608 | 1,182 | 144 | 93 | 295 | 4 | 483 | 51 | 77 | 0 | 0 | 35 |
| Fort Hays State U. | 609 | 1,172 | 0 | 298 | 483 | 0 | 158 | 3 | 10 | 0 | 0 | 220 |
| New England C. of Optometry | 610 | 1,150 | 0 | 0 | 1,150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Albion C. | 611 | 1,132 | 1 | 84 | 96 | 31 | 422 | 45 | 176 | 11 | 0 | 266 |
| Saint John's U., Collegetown | 612 | 1,130 | 25 | 10 | 133 | 16 | 132 | 23 | 192 | 0 | 0 | 599 |
| Heidelberg U. | 613 | 1,125 | 0 | 1,125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Niagara U. | 614 | 1,124 | 0 | 0 | 76 | 9 | 54 | 0 | 22 | 41 | 0 | 922 |
| Doane U. | 615 | 1,123 | 186 | 0 | 601 | 0 | 123 | 0 | 0 | 0 | 1 | 212 |
| U. Wisconsin-River Falls | 616 | 1,107 | 55 | 0 | 224 | 0 | 330 | 0 | 0 | 0 | 103 | 395 |
| U. Wisconsin-Platteville | 617 | 1,104 | 18 | 71 | 396 | 21 | 101 | 28 | 63 | 0 | 145 | 261 |
| Providence C. | 618 | 1,092 | 0 | 160 | 422 | 0 | 390 | 70 | 18 | 0 | 0 | 32 |
| Florida Polytechnic U. | 619 | 1,091 | 241 | 0 | 34 | 0 | 76 | 0 | 31 | 0 | 689 | 20 |
| New Mexico Highlands U. | 620 | 1,090 | 134 | 189 | 226 | 0 | 541 | 0 | 0 | 0 | 0 | 0 |
| C. Wooster | 621 | 1,076 | 112 | 59 | 257 | 104 | 235 | 38 | 18 | 0 | 0 | 253 |
| C. of Saint Benedict | 622 | 1,069 | 51 | 11 | 149 | 17 | 167 | 27 | 65 | 0 | 0 | 582 |
| Keene State C. | 623 | 1,063 | 0 | 16 | 967 | 0 | 72 | 0 | 0 | 0 | 8 | 0 |
| Union C., Schenectady | 624 | 1,062 | 7 | 154 | 60 | 33 | 268 | 0 | 111 | 0 | 204 | 225 |
| Albany State U. | 625 | 1,060 | 0 | 19 | 654 | 0 | 54 | 0 | 0 | 0 | 3 | 330 |
| Andrews U. | 626 | 1,033 | 0 | 45 | 15 | 3 | 196 | 0 | 670 | 0 | 41 | 63 |
| St. Olaf C. | 627 | 1,032 | 167 | 38 | 249 | 51 | 106 | 43 | 219 | 0 | 0 | 159 |
| Citadel Military C. South Carolina | 628 | 1,012 | 380 | 0 | 109 | 3 | 119 | 32 | 16 | 0 | 34 | 319 |
| Eastern Kentucky U. | 629 | 1,010 | 0 | 4 | 701 | 24 | 95 | 12 | 18 | 0 | 58 | 98 |
| U. Minnesota, Morris | 630 | 1,004 | 72 | 227 | 72 | 42 | 110 | 0 | 18 | 0 | 0 | 463 |
| Lipscomb U. | 631 | 1,000 | 38 | 0 | 643 | 10 | 73 | 12 | 33 | 0 | 139 | 52 |
| Rhode Island School of Design | 632 | 975 | 44 | 0 | 476 | 0 | 0 | 0 | 137 | 0 | 0 | 318 |
| Saint Michael's C. | 633 | 957 | 0 | 0 | 684 | 0 | 167 | 106 | 0 | 0 | 0 | 0 |
| Dickinson C. | 634 | 929 | 0 | 106 | 369 | 9 | 28 | 41 | 81 | 0 | 0 | 295 |
| Emerson C. | 635 | 919 | 23 | 0 | 0 | 0 | 0 | 0 | 462 | 0 | 0 | 434 |

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

| Institution | Rank | All R&D expenditures | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Sciences nec | Engineering | All non-S&E fields |
|----------------------------|------|----------------------|-----------------------------------|---|---------------|----------------------------|-------------------|------------|-----------------|--------------|-------------|--------------------|
| Gettysburg C. | 636 | 913 | 3 | 25 | 260 | 5 | 203 | 91 | 226 | 0 | 0 | 100 |
| Kenyon C. | 637 | 908 | 0 | 0 | 534 | 16 | 300 | 29 | 17 | 0 | 0 | 12 |
| U. Puget Sound | 638 | 895 | 0 | 1 | 379 | 4 | 252 | 5 | 182 | 0 | 0 | 72 |
| Midwestern State U. | 639 | 891 | 16 | 125 | 602 | 7 | 22 | 5 | 0 | 0 | 25 | 89 |
| CUNY, Medgar Evers C. | 640 | 882 | 0 | 1 | 487 | 49 | 216 | 0 | 74 | 0 | 0 | 55 |
| Whitman C. | 641 | 865 | 0 | 23 | 427 | 0 | 356 | 25 | 34 | 0 | 0 | 0 |
| Bradley U. | 642 | 851 | 7 | 0 | 78 | 0 | 81 | 5 | 52 | 0 | 617 | 11 |
| Stonehill C. | 643 | 833 | 0 | 393 | 0 | 0 | 0 | 0 | 0 | 159 | 0 | 281 |
| La Salle U. | 644 | 818 | 45 | 0 | 14 | 0 | 0 | 2 | 38 | 0 | 0 | 719 |
| Polytechnic U. Puerto Rico | 645 | 813 | 813 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salish Kootenai C. | 646 | 807 | 0 | 0 | 172 | 0 | 222 | 0 | 0 | 0 | 0 | 413 |
| Weber State U. | 647 | 676 | 133 | 91 | 71 | 0 | 110 | 0 | 0 | 0 | 22 | 249 |
| Benedict C. | 648 | 649 | 98 | 66 | 45 | 44 | 146 | 0 | 0 | 0 | 248 | 2 |
| U. Ana G. Mendez, Carolina | 649 | 647 | 0 | 0 | 258 | 0 | 0 | 2 | 0 | 0 | 387 | 0 |
| California Lutheran U. | 650 | 630 | 14 | 0 | 316 | 16 | 112 | 24 | 16 | 0 | 0 | 132 |
| St. Bonaventure U. | 651 | 585 | 8 | 0 | 102 | 0 | 50 | 0 | 0 | 47 | 0 | 378 |
| Merrimack C. | 652 | 503 | 0 | 0 | 253 | 0 | 0 | 0 | 0 | 60 | 78 | 112 |
| Dine C. | 653 | 347 | 0 | 0 | 347 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Jersey City U. | 654 | 262 | 24 | 0 | 65 | 47 | 82 | 15 | 0 | 1 | 0 | 28 |
| Columbus State U. | 655 | 261 | 112 | 0 | 38 | 8 | 7 | 0 | 17 | 0 | 0 | 79 |

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$1,909,094 thousand in total R&D expenditures in FY 2020.^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.^c The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

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. This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2019. Institutions reporting less than \$1 million in total R&D expenditures in 2019 completed a shorter version of the survey form in FY 2020, and that form did not collect R&D expenditures by source and detailed field. For R&D expenditures by major field at institutions completing the shorter version of the survey, see table 82.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.