

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|--|------|------------|------------|------------|------------|--------------------|------------|------------|------------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| All institutions | - | 27,265,024 | 27,991,752 | 29,859,263 | 31,869,957 | 14,173,029 | 14,705,799 | 16,130,097 | 17,494,324 |
| U. California, San Francisco | 1 | 1,526,889 | 1,579,053 | 1,637,342 | 1,731,822 | 631,806 | 634,237 | 645,077 | 736,836 |
| U. California, Los Angeles | 2 | 887,293 | 955,580 | 1,019,775 | 1,073,244 | 393,177 | 437,643 | 502,185 | 594,487 |
| Duke U. | 3 | 749,965 | 717,323 | 721,730 | 857,681 | 355,135 | 353,311 | 383,958 | 493,708 |
| U. California, San Diego | 4 | 754,309 | 765,869 | 762,778 | 854,614 | 372,590 | 377,281 | 419,886 | 531,157 |
| Johns Hopkins U. ^a | 5 | 727,074 i | 736,373 i | 719,743 i | 820,566 i | 478,556 | 492,957 | 495,734 | 571,270 |
| Yale U. | 6 | 691,959 | 726,089 | 779,001 | 809,589 | 350,340 | 367,588 | 415,334 | 445,289 |
| U. North Carolina, Chapel Hill | 7 | 680,788 | 700,352 | 733,607 | 798,512 | 387,808 | 398,199 | 426,102 | 453,720 |
| U. Texas M. D. Anderson Cancer Center | 8 | 612,732 | 654,098 | 714,145 | 755,886 | 80,140 | 90,726 | 114,464 | 120,193 |
| U. Pittsburgh, Pittsburgh | 9 | 641,144 | 659,733 | 678,383 | 728,994 | 396,027 | 400,747 | 421,306 | 462,914 |
| Stanford U. | 10 | 614,159 | 572,268 | 622,630 | 695,772 | 349,539 | 323,047 | 359,980 | 392,879 |
| U. Michigan, Ann Arbor | 11 | 632,969 | 622,140 | 604,587 | 680,357 | 339,982 | 333,024 | 333,812 | 369,878 |
| U. Washington, Seattle | 12 | 655,372 | 660,692 | 685,723 | 679,546 | 486,924 | 489,241 | 488,597 | 472,149 |
| Ohio State U. | 13 | 406,318 | 422,365 | 700,303 | 666,812 | 211,721 | 225,112 | 245,788 | 280,228 |
| Vanderbilt U. and Vanderbilt U. Medical Center | 14 | 408,035 | 441,313 | 599,247 | 651,870 | 287,597 | 303,327 | 361,743 | 422,950 |
| Columbia U. in the City of New York | 15 | 524,495 | 531,123 | 563,787 | 637,456 | 379,363 | 391,314 | 422,968 | 462,070 |
| Emory U. | 16 | 524,939 | 535,117 | 571,627 | 628,633 | 236,157 | 264,862 | 307,719 | 333,946 |
| U. Minnesota, Twin Cities | 17 | 461,261 | 474,705 | 514,691 | 602,141 | 225,592 | 231,480 | 274,027 | 333,708 |
| U. Colorado Anschutz Medical Campus ^b | 18 | na | na | 550,101 | 591,424 | na | na | 357,186 | 423,282 |
| New York U. | 19 | 377,195 | 389,211 | 469,714 | 584,887 | 196,303 | 203,772 | 267,032 | 355,486 |
| Washington U., Saint Louis | 20 | 442,275 | 465,122 | 498,196 | 549,454 | 264,808 | 272,506 | 290,293 | 336,869 |
| Northwestern U. | 21 | 446,421 | 451,059 | 474,272 | 514,642 | 270,784 | 287,948 | 302,805 | 332,325 |
| U. Wisconsin-Madison | 22 | 472,274 | 451,868 | 467,332 | 500,026 | 185,312 | 177,594 | 185,553 | 204,259 |
| U. Alabama, Birmingham | 23 | 396,340 | 409,345 | 439,145 | 486,139 | 246,156 | 242,728 | 265,640 | 283,493 |
| Icahn School of Medicine at Mount Sinai | 24 | 363,092 | 387,114 | 428,618 | 482,027 | 244,978 | 272,264 | 318,922 | 349,128 |
| U. Texas Southwestern Medical Center | 25 | 310,308 | 377,001 | 408,377 | 479,181 | 128,317 | 154,128 | 156,620 | 185,558 |
| Cornell U. | 26 | 336,554 | 370,944 | 384,742 | 429,280 | 137,876 | 161,371 | 185,010 | 214,450 |
| U. Cincinnati | 27 | 362,786 | 363,772 | 380,364 | 428,068 | 191,320 | 223,432 | 239,842 | 268,101 |
| Baylor C. of Medicine | 28 | 353,039 | 374,095 | 371,964 | 426,947 | 137,666 | 148,425 | 168,837 | 197,342 |
| Indiana U., Bloomington | 29 | 341,217 | 367,228 | 369,296 | 402,704 | 154,864 | 162,496 | 168,420 | 188,523 |
| U. Maryland ^c | 30 | 378,537 | 366,476 | 390,634 | 400,555 | 237,875 | 215,647 | 215,882 | 211,533 |
| U. Florida | 31 | 342,498 | 327,963 | 344,705 | 400,250 | 143,967 | 142,251 | 156,907 | 169,021 |
| U. Pennsylvania | 32 | 301,611 | 326,566 | 329,713 | 352,904 | 153,088 | 153,364 | 171,402 | 189,554 |
| U. Utah | 33 | 321,728 i | 361,988 i | 369,765 i | 351,390 | 151,742 | 177,544 | 186,207 | 190,041 |
| Albert Einstein C. of Medicine | 34 | 298,824 | 288,654 | 301,715 | 318,314 | 202,513 | 204,635 | 214,619 | 220,780 |

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(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|---|------|---------|---------|---------|---------|--------------------|---------|---------|---------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| Oregon Health and Science U. | 35 | 177,687 | 265,157 | 278,801 | 300,193 | 134,016 | 184,045 | 195,006 | 208,921 |
| Boston U. | 36 | 187,252 | 208,709 | 276,870 | 295,414 | 118,893 | 118,255 | 181,093 | 167,178 |
| U. Iowa | 37 | 260,702 | 284,636 | 278,735 | 295,198 | 118,355 | 123,855 | 130,852 | 133,298 |
| U. Chicago | 38 | 212,930 | 219,525 | 254,022 | 292,843 | 146,121 | 163,943 | 194,258 | 217,318 |
| Case Western Reserve U. | 39 | 284,229 | 283,260 | 252,185 | 292,264 | 237,106 | 231,431 | 206,937 | 245,047 |
| U. California, Davis | 40 | 215,845 | 229,577 | 247,406 | 262,615 | 113,073 | 122,802 | 126,788 | 161,879 |
| U. Southern California | 41 | 408,849 | 427,949 | 468,905 | 262,080 | 198,583 | 215,128 | 235,884 | 152,381 |
| Uniformed Services U. of the Health Sciences | 42 | 405,214 | 315,313 | 359,418 | 252,132 | 288,742 | 228,596 | 257,125 | 176,427 |
| Wake Forest U. | 43 | 227,411 | 232,490 | 250,518 | 250,627 | 161,380 | 162,023 | 184,166 | 175,325 |
| U. Miami | 44 | 210,762 | 218,739 | 215,596 | 247,302 | 97,927 | 98,788 | 98,956 | 109,639 |
| U. Illinois, Chicago | 45 | 207,754 | 222,385 | 237,347 | 241,065 | 116,209 | 128,953 | 139,546 | 146,031 |
| U. Rochester | 46 | 194,845 | 205,158 | 214,686 | 229,953 | 129,064 | 128,290 | 137,802 | 143,435 |
| Rutgers, State U. New Jersey, New Brunswick | 47 | 294,976 | 319,113 | 319,883 | 228,112 | 122,619 | 131,115 | 165,473 | 98,452 |
| Medical C. Wisconsin | 48 | 162,969 | 171,901 | 185,395 | 215,640 | 67,941 | 75,097 | 81,557 | 93,426 |
| U. New Mexico | 49 | 113,308 | 115,028 | 213,149 | 200,164 | 68,059 | 68,385 | 156,667 | 138,833 |
| Thomas Jefferson U. | 50 | 96,914 | 96,265 | 117,226 | 198,417 | 31,857 | 32,350 | 59,891 | 101,174 |
| U. California, Irvine | 51 | 162,497 | 174,686 | 190,252 | 187,306 | 66,776 | 78,599 | 79,591 | 87,959 |
| U. Arizona | 52 | 161,471 | 160,542 | 162,748 | 183,399 | 61,132 | 58,241 | 71,073 | 80,959 |
| U. Virginia, Charlottesville | 53 | 172,559 | 189,679 | 172,524 | 182,321 | 48,783 | 57,711 | 59,905 | 60,833 |
| Georgetown U. | 54 | 136,787 | 138,679 | 167,962 | 176,598 | 64,256 | 66,199 | 99,766 | 98,393 |
| Virginia Commonwealth U. | 55 | 121,490 | 137,007 | 140,319 | 175,197 | 51,872 | 57,194 | 60,154 | 63,370 |
| U. Kansas | 56 | 142,295 | 154,245 | 168,897 | 172,748 | 59,800 | 69,398 | 83,587 | 84,531 |
| SUNY, U. Buffalo | 57 | 164,551 | 150,541 | 154,302 | 159,310 | 58,617 | 59,728 | 62,571 | 63,398 |
| U. Texas Health Science Center, Houston | 58 | 114,095 | 118,123 | 138,943 | 152,507 | 51,093 | 53,123 | 72,125 | 76,851 |
| Wayne State U. | 59 | 153,084 | 154,653 | 146,425 | 152,350 | 74,502 | 74,025 | 72,186 | 77,680 |
| U. Arkansas for Medical Sciences | 60 | 99,586 | 105,955 | 122,965 | 145,560 | 30,247 | 31,804 | 47,652 | 54,269 |
| U. Texas Health Science Center, San Antonio | 61 | 104,703 | 112,594 | 126,181 | 132,856 | 54,241 | 53,745 | 58,379 | 65,129 |
| U. Massachusetts, Medical School | 62 | 92,702 | 94,555 | 100,911 | 132,752 | 62,020 | 61,778 | 62,856 | 96,374 |
| Harvard U. | 63 | 137,745 | 122,619 | 133,571 | 131,479 | 62,263 | 54,439 | 74,024 | 74,495 |
| U. Oklahoma, Norman and Health Science Center | 64 | 107,128 | 119,319 | 116,506 | 125,256 | 41,090 | 43,535 | 46,790 | 54,008 |
| Pennsylvania State U., University Park and Hershey Medical Center | 65 | 84,968 | 90,967 | 91,303 | 118,266 | 46,064 | 49,889 | 51,789 | 60,184 |
| George Washington U. | 66 | 121,699 | 126,901 | 122,447 | 114,499 | 78,924 | 84,188 | 83,219 | 73,625 |
| Texas A&M U., College Station and Health Science Center | 67 | 77,896 | 220,948 | 188,730 | 103,670 | 29,277 | 171,384 | 139,429 | 55,668 |
| U. Nebraska, Medical Center | 68 | 90,837 | 96,786 | 101,144 | 102,926 | 31,791 | 34,622 | 39,568 | 42,272 |
| Temple U. | 69 | 95,903 | 93,790 | 94,116 | 101,776 | 63,267 | 58,687 | 62,141 | 67,747 |

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(Dollars in thousands)

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|---|------|--------|--------|--------|--------|--------------------|--------|--------|--------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| U. Louisville | 70 | 82,529 | 91,134 | 87,611 | 99,867 | 29,886 | 28,362 | 29,156 | 43,345 |
| Rush U. | 71 | 75,399 | 78,672 | 92,716 | 99,567 | 49,170 | 51,186 | 60,853 | 66,274 |
| U. South Florida ^d | 72 | 83,200 | 72,093 | 90,274 | 99,029 | 20,003 | 24,754 | 33,784 | 45,993 |
| U. Missouri, Columbia | 73 | 62,918 | 78,021 | 79,594 | 98,322 | 28,328 | 35,673 | 44,407 | 44,542 |
| Purdue U., West Lafayette | 74 | 73,660 | 85,839 | 88,853 | 91,794 | 24,555 | 29,679 | 33,916 | 39,058 |
| Medical U. South Carolina | 75 | 99,495 | 86,364 | 93,409 | 91,364 | 43,635 | 44,041 | 48,670 | 47,538 |
| U. Connecticut | 76 | 76,662 | 64,335 | 74,770 | 89,129 | 43,145 | 38,304 | 47,916 | 57,044 |
| U. Kentucky | 77 | 73,619 | 77,295 | 77,779 | 86,296 | 40,585 | 47,572 | 52,260 | 62,945 |
| Dartmouth C. and Dartmouth Hitchcock Medical Center | 78 | 80,692 | 83,046 | 78,745 | 80,239 | 43,999 | 43,926 | 44,449 | 42,037 |
| SUNY, Stony Brook U. | 79 | 57,903 | 59,949 | 63,040 | 78,801 | 25,783 | 26,694 | 32,165 | 40,777 |
| U. South Carolina, Columbia | 80 | 52,099 | 72,233 | 69,832 | 78,146 | 39,967 | 41,687 | 41,165 | 50,514 |
| U. Texas, Austin | 81 | 56,232 | 62,010 | 69,548 | 77,108 | 29,182 | 28,826 | 36,365 | 40,012 |
| West Virginia U. | 82 | 60,670 | 58,047 | 69,644 | 76,948 | 20,341 | 18,908 | 24,940 | 28,335 |
| U. Tennessee, Health Science Center | 83 | 74,555 | 72,349 | 74,246 | 74,096 | 27,654 | 28,260 | 33,007 | 33,996 |
| Augusta U. | 84 | 56,610 | 60,177 | 69,850 | 73,958 | 22,378 | 25,747 | 30,933 | 31,030 |
| Michigan State U. | 85 | 65,910 | 60,154 | 57,339 | 71,382 | 32,480 | 27,534 | 28,328 | 37,431 |
| U. Mississippi | 86 | 60,209 | 67,047 | 56,848 | 65,860 | 29,781 | 46,807 | 39,086 | 45,534 |
| U. Vermont | 87 | 48,324 | 64,224 | 63,210 | 65,313 | 31,802 | 33,364 | 37,336 | 40,601 |
| Washington State U. | 88 | 47,568 | 49,070 | 59,282 | 64,128 | 34,114 | 32,030 | 36,732 | 41,980 |
| U. California, Berkeley | 89 | 61,002 | 55,230 | 58,481 | 60,240 | 33,036 | 25,243 | 26,345 | 33,545 |
| Tulane U. | 90 | 36,399 | 41,445 | 46,935 | 50,018 | 14,594 | 16,346 | 21,498 | 21,174 |
| Brown U. | 91 | 45,463 | 41,744 | 46,024 | 49,964 | 34,347 | 31,743 | 37,100 | 42,112 |
| Virginia Polytechnic Institute and State U. | 92 | 49,883 | 47,236 | 51,942 | 48,844 | 19,397 | 19,730 | 21,979 | 19,230 |
| U. Texas Medical Branch | 93 | 43,303 | 42,087 | 44,920 | 48,144 | 27,545 | 27,779 | 31,585 | 30,104 |
| U. Puerto Rico, Medical Sciences Campus | 94 | 44,985 | 37,081 | 43,846 | 47,314 | 34,541 | 26,897 | 32,997 | 34,786 |
| Drexel U. | 95 | 49,628 | 47,466 | 53,152 | 44,108 | 26,328 | 25,113 | 30,650 | 28,377 |
| U. California, Office of the President | 96 | 50,092 | 40,585 | 40,336 | 43,487 | 202 | 123 | 191 | 0 |
| Louisiana State U., Health Sciences Center, New Orleans | 97 | 20,974 | 23,192 | 23,148 | 43,024 | 14,317 | 14,392 | 15,847 | 25,397 |
| Arizona State U. | 98 | 31,611 | 39,268 | 37,201 | 42,576 | 15,503 | 15,960 | 15,101 | 18,176 |
| Morehouse School of Medicine | 99 | 31,289 | 29,813 | 32,637 | 42,489 | 22,461 | 22,500 | 25,181 | 31,339 |
| Saint Louis U. | 100 | 29,373 | 31,213 | 37,487 | 40,671 | 16,774 | 15,722 | 23,081 | 23,675 |
| Florida State U. | 101 | 32,890 | 37,353 | 35,745 | 39,431 | 17,293 | 19,862 | 17,927 | 20,449 |
| U. Delaware | 102 | 26,922 | 28,705 | 25,483 | 39,058 | 19,058 | 21,603 | 19,296 | 19,299 |
| U. Hawaii, Manoa | 103 | 52,177 | 47,531 | 45,709 | 37,830 | 36,629 | 32,477 | 28,587 | 22,632 |
| U. Georgia | 104 | 50,860 | 32,872 | 35,774 | 36,409 | 10,985 | 12,548 | 13,291 | 12,287 |

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(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|--|------|--------|--------|--------|--------|--------------------|--------|--------|--------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| SUNY, Upstate Medical U. | 105 | 22,363 | 26,810 | 27,911 | 33,103 | 9,786 | 13,081 | 12,654 | 15,152 |
| U. Houston | 106 | 20,004 | 21,435 | 19,265 | 31,836 | 10,244 | 10,906 | 10,820 | 16,451 |
| U. Montana, Missoula | 107 | 24,465 | 25,707 | 30,176 | 31,740 | 19,683 | 21,652 | 26,382 | 27,998 |
| Howard U. | 108 | 17,872 | 18,156 | 21,927 | 28,888 | 13,134 | 12,922 | 16,300 | 17,127 |
| Massachusetts Institute of Technology | 109 | 19,499 | 20,529 | 21,012 | 27,534 | 14,181 | 14,516 | 16,015 | 20,022 |
| Colorado State U., Fort Collins | 110 | 37,787 | 24,849 | 28,615 | 26,764 | 24,560 | 19,151 | 17,382 | 16,529 |
| U. Texas, Dallas | 111 | 31,036 | 29,609 | 22,215 | 25,570 | 11,546 | 13,568 | 10,719 | 12,530 |
| U. Missouri, Kansas City | 112 | 11,919 | 14,403 | 12,701 | 25,516 | 7,586 | 9,111 | 7,427 | 14,595 |
| Texas Tech U., Health Sciences Center | 113 | 22,752 | 21,574 | 20,173 | 23,715 | 3,596 | 3,500 | 3,996 | 6,614 |
| East Carolina U. | 114 | 32,861 | 30,285 | 18,142 | 22,935 | 10,963 | 11,137 | 7,931 | 11,397 |
| Loyola U., Chicago | 115 | 17,674 | 18,529 | 21,272 | 21,885 | 9,742 | 9,898 | 10,324 | 9,931 |
| U. Toledo | 116 | 20,923 | 20,743 | 17,417 | 21,521 | 9,880 | 9,989 | 10,253 | 10,411 |
| New Jersey Institute of Technology | 117 | 24,859 | 17,662 | 18,355 | 21,379 | 18,422 | 13,727 | 6,854 | 3,986 |
| San Diego State U. | 118 | 15,226 | 12,357 | 15,949 | 20,885 | 10,733 | 8,423 | 11,113 | 14,386 |
| U. Nevada, Reno | 119 | 18,515 | 19,029 | 20,341 | 20,416 | 9,170 | 8,277 | 11,439 | 11,806 |
| Tufts U. | 120 | 19,295 | 31,949 | 48,230 | 19,825 | 14,964 | 25,561 | 38,262 | 8,512 |
| U. Louisiana, Lafayette | 121 | 51,140 | 18,497 | 18,818 | 19,606 | 12,290 | 8,299 | 10,130 | 11,791 |
| U. South Alabama | 122 | 13,406 | 18,893 | 23,884 | 19,345 | 8,150 | 11,871 | 12,509 | 11,821 |
| Southern Illinois U., Carbondale | 123 | 16,778 | 16,628 | 17,958 | 18,528 | 4,437 | 3,925 | 3,907 | 4,232 |
| U. California, Riverside | 124 | 10,797 | 12,788 | 15,576 | 18,034 | 6,568 | 9,783 | 12,326 | 14,043 |
| SUNY, U. Albany | 125 | 68,363 | 32,478 | 22,998 | 17,702 | 51,657 | 27,935 | 20,138 | 14,702 |
| U. Nebraska, Lincoln | 126 | 18,492 | 16,883 | 16,429 | 17,663 | 7,719 | 5,797 | 6,214 | 5,667 |
| U. Texas Rio Grande Valley | 127 | 17,789 | 19,143 | 19,785 | 16,939 | 4,808 | 3,852 | 3,884 | 4,545 |
| U. New Hampshire | 128 | 14,712 | 15,276 | 18,883 | 16,527 | 9,133 | 9,845 | 11,612 | 10,148 |
| Florida International U. | 129 | 16,019 | 13,961 | 15,751 | 16,489 | 3,190 | 2,603 | 2,063 | 2,664 |
| U. North Dakota | 130 | 12,059 | 14,048 | 13,774 | 16,433 | 5,940 | 7,807 | 7,943 | 10,107 |
| U. Nevada, Las Vegas | 131 | 20,056 | 21,019 | 18,321 | 15,740 | 6,120 | 5,767 | 4,992 | 4,878 |
| Rockefeller U. | 132 | 14,318 | 14,643 | 14,694 | 15,494 | 5,819 | 4,473 | 5,072 | 4,657 |
| U. Central Florida | 133 | 17,034 | 13,876 | 15,294 | 15,074 | 2,848 | 2,422 | 4,402 | 4,678 |
| U. Alabama, Tuscaloosa | 134 | 4,869 | 5,383 | 8,980 | 14,749 | 1,589 | 2,364 | 3,177 | 7,688 |
| Charles R. Drew U. of Medicine and Science | 135 | 13,739 | 13,682 | 13,228 | 14,581 | 10,427 | 9,863 | 9,945 | 10,656 |
| Auburn U., Auburn | 136 | 28,160 | 10,995 | 15,343 | 14,411 | 1,615 | 1,657 | 1,261 | 982 |
| East Tennessee State U. | 137 | 3,405 | 4,145 | 4,923 | 14,370 | 1,456 | 2,564 | 1,907 | 5,248 |
| Nova Southeastern U. | 138 | 14,236 | 13,298 | 12,827 | 14,319 | 4,725 | 4,572 | 5,098 | 4,574 |
| Louisiana State U., Health Sciences Center, Shreveport | 139 | 14,390 | 13,911 | 12,906 | 14,239 | 2,267 | 1,658 | 2,167 | 2,115 |

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|--|------|--------|--------|--------|--------|--------------------|--------|--------|--------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| Indiana U.-Purdue U., Indianapolis | 140 | 14,273 | 14,127 | 14,909 | 14,064 | 5,579 | 5,576 | 5,645 | 5,515 |
| Montana State U., Bozeman | 141 | 11,971 | 10,030 | 12,186 | 13,878 | 8,195 | 7,076 | 9,302 | 10,102 |
| CUNY, Graduate School of Public Health and Health Policy | 142 | 7,388 | 10,057 | 13,481 | 13,645 | 3,439 | 6,602 | 10,700 | 9,102 |
| Wichita State U. | 143 | 57 | 21 | 11,491 | 13,516 | 0 | 9 | 3,937 | 24 |
| Central Michigan U. | 144 | 2,910 | 4,390 | 10,781 | 12,783 | 1,046 | 844 | 904 | 2,537 |
| Creighton U. | 145 | 10,406 | 8,797 | 10,453 | 12,417 | 3,497 | 3,209 | 3,874 | 5,425 |
| CUNY, Queens C. | 146 | 0 | 9,978 | 8,822 | 11,834 | 0 | 8,321 | 7,374 | 9,295 |
| Northeastern U. | 147 | 10,429 | 10,384 | 10,371 | 11,477 | 4,454 | 4,591 | 4,148 | 3,828 |
| Marshall U. | 148 | 10,844 | 12,186 | 13,300 | 11,141 | 6,218 | 8,118 | 7,715 | 7,972 |
| Florida A&M U. | 149 | 7,880 | 8,427 | 10,567 | 10,961 | 6,874 | 7,301 | 9,150 | 9,517 |
| U. Massachusetts, Amherst | 150 | 19,940 | 10,047 | 9,953 | 10,918 | 12,576 | 6,464 | 6,288 | 7,131 |
| U. Tennessee, Knoxville ^e | 151 | 6,503 | 9,977 | 10,025 | 10,264 | 3,123 | 4,173 | 4,309 | 4,553 |
| U. Texas, Arlington | 152 | 9,698 | 9,511 | 9,984 | 10,059 | 3,508 | 5,042 | 4,860 | 5,444 |
| Florida Atlantic U. | 153 | 7,432 | 7,865 | 8,431 | 9,696 | 3,572 | 3,380 | 4,374 | 5,628 |
| SUNY, Binghamton U. | 154 | 7,085 | 8,035 | 7,345 | 9,414 | 1,490 | 1,319 | 897 | 817 |
| Eastern Virginia Medical School | 155 | 18,318 | 10,902 | 10,181 | 9,241 | 13,393 | 8,927 | 8,154 | 8,748 |
| U. Massachusetts, Lowell | 156 | 2,942 | 5,198 | 6,255 | 8,896 | 945 | 1,417 | 2,921 | 5,700 |
| Texas Tech U., Health Sciences Center, El Paso | 157 | 8,856 | 8,014 | 7,267 | 8,633 | 1,397 | 1,189 | 1,017 | 846 |
| George Mason U. | 158 | 6,467 | 7,187 | 8,558 | 8,513 | 2,767 | 3,326 | 4,519 | 4,658 |
| Georgia State U. | 159 | 11,424 | 13,803 | 10,926 | 8,380 | 9,780 | 10,882 | 7,260 | 4,184 |
| Clemson U. | 160 | 5,822 | 7,465 | 7,534 | 7,953 | 1,387 | 1,847 | 2,070 | 1,995 |
| Long Island U. | 161 | 4,536 | 5,905 | 6,428 | 7,833 | 1,381 | 1,103 | 2,177 | 2,023 |
| Ohio U. | 162 | 7,681 | 7,158 | 7,371 | 7,780 | 2,215 | 2,501 | 3,302 | 3,568 |
| Loma Linda U. | 163 | 8,895 | 7,892 | 6,889 | 7,619 | 5,123 | 4,608 | 4,095 | 3,534 |
| North Dakota State U. | 164 | 17,936 | 8,713 | 7,484 | 7,540 | 6,703 | 5,142 | 4,987 | 5,207 |
| Oregon State U. | 165 | 8,154 | 7,447 | 8,767 | 7,475 | 5,839 | 5,837 | 7,005 | 5,573 |
| U. Texas, El Paso | 166 | 7,504 | 6,503 | 5,638 | 7,386 | 1,958 | 2,007 | 1,958 | 2,378 |
| Old Dominion U. | 167 | 4,708 | 4,585 | 5,972 | 7,244 | 2,081 | 2,186 | 1,537 | 1,381 |
| U. North Texas, Health Science Center Edward Via C. of Osteopathic Medicine | 168 | 28,110 | 28,703 | 36,100 | 7,140 | 18,111 | 18,800 | 23,830 | 2,400 |
| Texas Tech U. | 169 | 7,225 | 7,474 | 6,629 | 7,121 | 749 | 565 | 537 | 482 |
| Texas Tech U. | 170 | 6,365 | 5,204 | 5,392 | 7,104 | 597 | 570 | 760 | 954 |
| U. Wyoming | 171 | 4,206 | 2,320 | 3,903 | 6,761 | 2,900 | 2,026 | 3,205 | 3,038 |
| Duquesne U. | 172 | 5,950 | 6,266 | 4,846 | 6,724 | 2,089 | 2,181 | 2,857 | 3,428 |
| New York Medical C. | 173 | 11,126 | 7,585 | 7,563 | 6,552 | 6,143 | 3,010 | 3,308 | 2,824 |
| Albany Medical C. | 174 | 6,792 | 6,360 | 6,322 | 6,450 | 607 | 677 | 466 | 568 |

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|---|------|--------|--------|-------|-------|--------------------|--------|-------|-------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| U. Wisconsin-Milwaukee | 175 | 5,839 | 6,129 | 5,344 | 6,437 | 2,671 | 3,092 | 3,354 | 4,002 |
| Chapman U. | 176 | 2,578 | 2,761 | 4,337 | 6,376 | 1,587 | 1,810 | 2,377 | 2,984 |
| Roseman U. of Health Sciences | 177 | 4,176 | 4,380 | 5,893 | 6,285 | 37 | 56 | 53 | 30 |
| U. Nebraska, Omaha | 178 | 2,599 | 3,445 | 6,071 | 6,129 | 1,989 | 2,658 | 5,331 | 5,128 |
| Rowan U. | 179 | 6,652 | 7,836 | 6,962 | 6,119 | 2,909 | 3,446 | 2,798 | 2,622 |
| Oklahoma State U., Stillwater | 180 | 9,576 | 8,614 | 5,881 | 6,090 | 1,248 | 1,106 | 603 | 808 |
| Georgia Institute of Technology | 181 | 4,846 | 20,316 | 6,213 | 6,060 | 0 | 13,779 | 141 | 280 |
| Oklahoma State U., Center for Health Sciences | 182 | 4,390 | 7,164 | 6,397 | 6,002 | 848 | 2,469 | 1,864 | 1,787 |
| U. Memphis | 183 | 5,463 | 5,192 | 5,201 | 5,848 | 1,053 | 1,139 | 1,812 | 2,106 |
| U. Illinois, Urbana-Champaign | 184 | 25,462 | 2,845 | 4,630 | 5,483 | 8,907 | 722 | 1,159 | 1,814 |
| Mercer U. | 185 | 5,294 | 5,307 | 5,592 | 5,466 | 1,233 | 1,457 | 1,892 | 1,537 |
| Xavier U. Louisiana | 186 | 2,490 | 2,859 | 3,133 | 5,388 | 1,180 | 1,384 | 1,686 | 3,075 |
| U. Rhode Island | 187 | 2,944 | 2,397 | 3,849 | 5,359 | 1,847 | 2,339 | 2,771 | 3,547 |
| Marquette U. | 188 | 4,461 | 4,570 | 5,545 | 5,317 | 1,477 | 1,771 | 2,391 | 1,997 |
| Northeast Ohio Medical U. | 189 | 9,108 | 6,717 | 4,451 | 5,248 | 3,673 | 3,274 | 2,274 | 3,111 |
| U. Colorado Boulder | 190 | 5,714 | 5,377 | 4,708 | 5,076 | 3,747 | 3,939 | 3,515 | 4,142 |
| U. Central del Caribe | 191 | 3,953 | 3,931 | 3,831 | 5,053 | 2,705 | 2,743 | 2,492 | 2,807 |
| Brandeis U. | 192 | 0 | 2,047 | 3,490 | 5,007 | 0 | 1,318 | 1,378 | 3,511 |
| U. Arkansas, Fayetteville | 193 | 11,026 | 3,213 | 3,825 | 4,979 | 5,617 | 821 | 1,351 | 2,048 |
| U. North Texas, Denton | 194 | 1,866 | 1,354 | 3,360 | 4,943 | 0 | 48 | 209 | 566 |
| Northern Arizona U. | 195 | 2,807 | 5,180 | 5,522 | 4,639 | 1,178 | 3,702 | 3,033 | 3,573 |
| Midwestern U. | 196 | 3,950 | 3,907 | 4,302 | 4,612 | 491 | 455 | 705 | 846 |
| Jackson State U. | 197 | 881 | 1,084 | 2,492 | 4,507 | 855 | 1,044 | 2,095 | 4,115 |
| SUNY, C. of Optometry | 198 | 2,968 | 3,477 | 3,460 | 4,497 | 1,823 | 1,688 | 2,105 | 2,080 |
| U. South Dakota | 199 | 1,631 | 1,743 | 1,576 | 4,478 | 328 | 504 | 546 | 600 |
| Wright State U. | 200 | 8,004 | 5,732 | 4,651 | 4,418 | 4,070 | 3,109 | 2,968 | 2,444 |
| U. North Carolina, Greensboro | 201 | 3,993 | 3,230 | 3,206 | 4,390 | 2,424 | 2,032 | 1,672 | 2,556 |
| Morgan State U. | 202 | 6 | 1,931 | 3,273 | 4,340 | 0 | 1,764 | 3,085 | 3,606 |
| U. of Health Sciences and Pharmacy in St. Louis | 203 | ne | 4,835 | 5,313 | 4,271 | ne | 3,767 | 4,063 | 2,514 |
| U. California, Merced | 204 | 2,323 | 1,770 | 3,956 | 4,176 | 634 | 539 | 1,109 | 1,215 |
| U. Missouri, Saint Louis | 205 | 4,746 | 5,458 | 4,141 | 4,012 | 2,357 | 2,591 | 2,097 | 1,727 |
| Syracuse U. | 206 | 3,253 | 2,785 | 3,098 | 3,918 | 841 | 647 | 752 | 1,055 |
| Miami U. | 207 | 4,422 | 5,586 | 5,813 | 3,856 | 365 | 1,085 | 1,133 | 617 |
| Yeshiva U. | 208 | 2,420 | 2,477 | 3,830 | 3,678 | 380 | 486 | 1,256 | 950 |
| Saint Joseph's U. | 209 | 43 | 35 | 30 | 3,591 | 0 | 0 | 0 | 370 |

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|--|------|---------|---------|---------|---------|--------------------|---------|---------|---------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| Georgia Southern U. | 210 | 1,507 | 1,173 | 4,105 | 3,584 | 774 | 570 | 493 | 239 |
| New York Institute of Technology | 211 | 4,185 | 2,474 | 3,050 | 3,499 | 1,900 | 698 | 891 | 1,344 |
| Alabama A&M U. | 212 | 4,390 i | 2,991 i | 3,189 i | 3,333 i | 2,810 i | 1,916 i | 2,575 i | 3,196 i |
| Kent State U. | 213 | 2,281 | 1,965 | 2,924 | 3,242 | 110 | 424 | 1,459 | 2,020 |
| U. Guam | 214 | 2,145 | 2,408 | 2,741 | 3,139 | 1,837 | 2,034 | 2,363 | 2,786 |
| Ball State U. | 215 | 1,232 | 1,171 | 1,042 | 3,086 | 454 | 598 | 608 | 2,654 |
| U. Massachusetts, Boston | 216 | 3,766 | 3,320 | 3,061 | 3,063 | 1,403 | 1,591 | 2,104 | 2,282 |
| Baylor U. | 217 | 2,127 | 2,267 | 2,782 | 3,041 | 1,098 | 1,255 | 1,446 | 1,479 |
| California State U., Long Beach | 218 | 2,873 | 2,704 | 2,499 | 3,023 | 2,262 | 1,784 | 1,704 | 1,905 |
| Pacific U. | 219 | 4,463 | 3,202 | 2,745 | 3,019 | 2,338 | 1,572 | 1,212 | 1,434 |
| South Dakota State U. | 220 | 4,896 | 2,684 | 2,361 | 2,977 | 1,947 | 1,596 | 1,482 | 1,842 |
| U. Nebraska, central administration | 221 | 3,259 | 1,333 | 2,309 | 2,810 | 3,068 | 1,333 | 2,309 | 2,810 |
| Montclair State U. | 222 | 852 | 1,206 | 1,735 | 2,715 | 133 | 300 | 216 | 306 |
| Philadelphia C. of Osteopathic Medicine | 223 | 2,368 | 2,415 | 2,837 | 2,675 | 0 | 0 | 0 | 0 |
| CUNY, City C. | 224 | 4,355 | 4,387 | 2,112 | 2,663 | 2,429 | 2,024 | 1,236 | 932 |
| San Jose State U. | 225 | 3 | 0 | 1,224 | 2,585 | 3 | 0 | 0 | 114 |
| Mississippi State U. | 226 | 1,535 | 1,738 | 1,887 | 2,544 | 135 | 206 | 734 | 1,328 |
| U. Texas, San Antonio | 227 | 1,483 | 2,014 | 1,961 | 2,527 | 826 | 808 | 928 | 994 |
| U. Oklahoma, Tulsa | 228 | 2,325 | 2,633 | 2,096 | 2,351 | 496 | 493 | 260 | 416 |
| Boise State U. | 229 | 955 | 1,343 | 1,723 | 2,279 | 670 | 867 | 1,345 | 1,719 |
| U. Louisiana, Monroe | 230 | 1,435 | 1,665 | 1,559 | 2,258 | 1,088 | 1,379 | 934 | 1,321 |
| Villanova U. | 231 | 601 | 1,305 | 1,557 | 2,250 | 0 | 25 | 398 | 909 |
| Oakland U. | 232 | 1,805 | 1,603 | 1,402 | 2,215 | 215 | 69 | 232 | 524 |
| MGH Institute of Health Professions | 233 | 1,957 | 1,587 | 1,200 | 2,200 | 1,957 | 1,587 | 1,200 | 2,200 |
| California Polytechnic State U., San Luis Obispo | 234 | 2,891 | 2,899 | 2,546 | 2,181 | 2,207 | 1,836 | 2,014 | 1,340 |
| Winston-Salem State U. | 235 | 201 | 1,716 | 3,341 | 2,169 | 201 | 1,366 | 2,326 | 1,952 |
| James Madison U. | 236 | 295 | 631 | 1,429 | 2,138 | 0 | 0 | 19 | 34 |
| U. Alaska, Anchorage | 237 | 1,268 | 129 | 830 | 2,121 | 1,116 | 0 | 157 | 1,229 |
| U. Southern Mississippi | 238 | 2,771 | 2,300 | 2,235 | 2,111 | 627 | 608 | 503 | 427 |
| Texas Woman's U. | 239 | 1,435 | 1,669 | 2,802 | 2,038 | 229 | 347 | 868 | 443 |
| U. Alaska, Fairbanks | 240 | 2,751 | 431 | 362 | 2,018 | 2,517 | 431 | 212 | 759 |
| Boston C. | 241 | 1,202 | 1,576 | 1,608 | 1,987 | 879 | 1,062 | 1,195 | 1,453 |
| Cleveland State U. | 242 | 6,578 | 2,797 | 3,312 | 1,976 | 3,819 | 433 | 1,215 | 31 |
| Florida Gulf Coast U. | 243 | 66 | 632 | 897 | 1,945 | 51 | 594 | 892 | 1,689 |
| New England C. of Optometry | 244 | 1,223 | 1,150 | 1,978 | 1,868 | 928 | 785 | 1,623 | 1,609 |

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | | | | | | | | | |
|----------------------------------|------|-------|-------|-------|------|--------------------|------|-------|-------|-------|---|-------|---|-------|---|-------|---|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 | | | | | | | | |
| Saginaw Valley State U. | 245 | 1,296 | 1,145 | 1,199 | i | 1,845 | i | 1,278 | 1,083 | 1,137 | i | 1,515 | i | | | | |
| U. North Carolina, Charlotte | 246 | 2,424 | 1,904 | 1,635 | | 1,838 | | 728 | 563 | 554 | | 748 | | | | | |
| Utah State U. | 247 | 1,737 | 2,526 | 1,966 | | 1,797 | | 1,398 | 1,877 | 1,390 | | 1,003 | | | | | |
| Dine C. | 248 | 734 | 328 | ne | | 1,762 | | 734 | 328 | ne | | 1,762 | | | | | |
| Texas State U. | 249 | 1,957 | 2,257 | 0 | | 1,716 | | 457 | 354 | 0 | | 0 | | | | | |
| Salisbury U. | 250 | 1,607 | 1,995 | 2,120 | | 1,710 | | 0 | 0 | 0 | | 0 | | | | | |
| Brigham Young U., Provo | 251 | 1,354 | 946 | 1,349 | | 1,639 | | 482 | 392 | 768 | | 988 | | | | | |
| U. Colorado Denver ^b | 252 | na | na | 3,149 | | 1,635 | | na | na | 422 | | 450 | | | | | |
| Northern Illinois U. | 253 | 3,604 | 1,854 | 1,660 | | 1,628 | | 211 | 200 | 336 | | 306 | | | | | |
| Northern Kentucky U. | 254 | 156 | 532 | 1,377 | | 1,576 | | 138 | 295 | 1,044 | | 1,238 | | | | | |
| Marshall B. Ketchum U. | 255 | 1,430 | i | 1,357 | i | 1,351 | i | 1,559 | i | 336 | i | 323 | i | 343 | i | 383 | i |
| Bowling Green State U. | 256 | 109 | | 304 | | 1,535 | | 1,368 | | 67 | | 122 | | 294 | | 404 | |
| Portland State U. | 256 | 9,112 | | 2,224 | | 1,184 | | 1,368 | | 7,816 | | 2,097 | | 1,009 | | 1,011 | |
| Louisiana Tech U. | 258 | 462 | | 449 | | 370 | | 1,365 | | 67 | | 37 | | 6 | | 536 | |
| St. John's U., New York | 259 | 926 | | 1,326 | | 1,152 | | 1,357 | | 539 | | 556 | | 643 | | 826 | |
| California State U., East Bay | 260 | ne | | 629 | | 615 | | 1,349 | | ne | | 154 | | 292 | | 499 | |
| California State U., Fullerton | 261 | 553 | | 707 | | 537 | | 1,345 | | 336 | | 335 | | 192 | | 349 | |
| Reed C. | 262 | 0 | | 0 | | 0 | i | 1,307 | i | 0 | | 0 | | 0 | i | 387 | i |
| Grand Valley State U. | 263 | 741 | | 1,216 | | 1,205 | | 1,253 | | 527 | | 673 | | 481 | | 755 | |
| U. Texas, Tyler | 264 | 693 | | 440 | | 332 | | 1,233 | | 343 | | 272 | | 222 | | 344 | |
| Eastern Michigan U. | 265 | 1,165 | | 1,872 | | 1,406 | | 1,219 | | 799 | | 1,413 | | 1,073 | | 811 | |
| CUNY, Hunter C. | 266 | 242 | | 407 | | 685 | | 1,204 | | 238 | | 253 | | 308 | | 615 | |
| Illinois Institute of Technology | 267 | 1,696 | | 1,023 | | 1,465 | | 1,198 | | 847 | | 487 | | 662 | | 619 | |
| U. Alabama, Huntsville | 268 | 887 | | 1,122 | | 1,179 | | 1,159 | | 6 | | 39 | | 0 | | 8 | |
| Idaho State U. | 269 | 1,237 | | 1,477 | | 1,202 | | 1,157 | | 352 | | 283 | | 188 | | 203 | |
| Bowie State U. | 270 | 0 | | 0 | | 0 | | 1,143 | | 0 | | 0 | | 0 | | 1,143 | |
| U. Central Oklahoma | 271 | 64 | | 63 | i | 66 | i | 1,138 | i | 60 | | 59 | i | 62 | i | 293 | i |
| California State U., Fresno | 272 | 104 | | 572 | | 752 | | 1,117 | | 9 | | 10 | | 0 | | 17 | |
| U. New England | 273 | 1,870 | | 2,080 | | 1,366 | | 1,106 | | 1,344 | | 1,428 | | 718 | | 395 | |
| Gallaudet U. | 274 | 409 | | 384 | | 630 | | 1,105 | | 388 | | 383 | | 368 | | 883 | |
| Northeastern Illinois U. | 275 | 997 | | 873 | | 724 | | 1,092 | | 997 | | 873 | | 724 | | 1,092 | |
| Purdue U., Northwest | 276 | 563 | | 920 | | 945 | | 1,073 | | 71 | | 131 | | 127 | | 106 | |
| U. Wisconsin-Green Bay | 277 | 684 | i | 649 | i | 730 | i | 1,066 | i | 262 | i | 284 | i | 315 | i | 376 | i |
| Clark U. | 278 | 0 | | 0 | | 0 | | 1,021 | | 0 | | 0 | | 0 | | 0 | |
| Embry-Riddle Aeronautical U. | 279 | 0 | | 0 | | 0 | | 1,020 | | 0 | | 0 | | 0 | | 514 | |

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|--|------|--------|---------|-------|-------|--------------------|-------|-------|------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| U. Hawaii, Hilo | 280 | 746 | 851 | 1,263 | 1,018 | 591 | 631 | 918 | 826 |
| Western Michigan U. and Homer Stryker M.D. School of Medicine | 281 | 929 | 1,136 | 663 | 1,016 | 100 | 276 | 117 | 157 |
| Rosalind Franklin U. of Medicine and Science | 282 | 1,386 | 1,691 | 1,893 | 1,013 | 630 | 770 | 948 | 585 |
| Sam Houston State U. | 283 | 14 | 18 | 17 | 1,010 | 0 | 0 | 0 | 565 |
| Carnegie Mellon U. | 284 | 1,191 | 824 | 895 | 1,006 | 885 | 493 | 407 | 471 |
| U. Maine | 284 | 417 | 385 | 466 | 1,006 | 0 | 0 | 0 | 115 |
| Western Kentucky U. | 286 | 1,134 | 686 | 665 | 1,005 | 170 | 0 | 180 | 304 |
| Delaware State U. | 287 | 265 | 2,777 i | 2,245 | 984 | 170 | 305 i | 351 | 276 |
| U. North Florida | 288 | 632 | 481 | 404 | 937 | 0 | 0 | 0 | 0 |
| Oregon Institute of Technology | 289 | 859 i | 777 i | 780 i | 919 i | 0 i | 0 | 42 i | 57 i |
| New Mexico State U. | 290 | 628 | 449 | 492 | 903 | 536 | 397 | 434 | 385 |
| Towson U. | 291 | 212 | 295 | 432 | 839 | 13 | 13 | 18 | 0 |
| Michigan Technological U. | 292 | 1,460 | 1,390 | 849 | 823 | 629 | 399 | 187 | 274 |
| Southern Illinois U., Edwardsville | 293 | 1,066 | 3,799 | 4,878 | 803 | 1,048 | 961 | 1,115 | 766 |
| Southern U. and A&M C., Agricultural Research and Extension Center | 293 | 418 | 662 | 765 | 803 | 0 | 0 | 0 | 0 |
| Western Carolina U. | 295 | 621 | 774 | 927 | 796 | 493 | 621 | 687 | 588 |
| DePaul U. | 296 | 27 | 79 | 60 | 785 | 1 | 0 | 0 | 773 |
| Pennsylvania State U., Harrisburg | 297 | 62 | 327 | 1,267 | 783 | 0 | 303 | 1,239 | 783 |
| Tarleton State U. | 298 | 115 | 350 | 482 | 763 | 0 | 0 | 0 | 0 |
| Illinois State U. | 299 | 646 | 991 | 1,249 | 758 | 343 | 684 | 898 | 730 |
| Middle Tennessee State U. | 300 | 34 | 112 | 667 | 734 | 0 | 0 | 12 | 21 |
| Fayetteville State U. | 301 | 368 | 1,075 | 930 | 728 | 368 | 0 | 0 | 381 |
| Louisiana State U., Baton Rouge | 302 | 26,509 | 928 | 566 | 670 | 8,877 | 527 | 234 | 167 |
| West Virginia School of Osteopathic Medicine | 303 | ne | 669 | 721 | 659 | ne | 362 | 359 | 349 |
| Bentley U. | 304 | ne | ne | ne | 652 | ne | ne | ne | 0 |
| Butler U. | 305 | ne | ne | ne | 638 | ne | ne | ne | 487 |
| West Chester U. Pennsylvania | 306 | 939 | 613 | 465 | 618 | 126 | 73 | 70 | 157 |
| U. Detroit Mercy | 307 | 67 | 318 | 353 | 617 | 46 | 18 | 0 | 267 |
| U. North Carolina, Asheville | 308 | 515 | 718 | 1,014 | 606 | 486 | 667 | 939 | 481 |
| Hampton U. | 309 | 983 | 962 | 813 | 603 | 983 | 962 | 813 | 603 |
| Southern Connecticut State U. | 310 | 672 | 907 | 452 | 567 | 144 | 102 | 54 | 178 |
| U. Nebraska, Kearney | 311 | 276 | 632 | 394 | 552 | 47 | 327 | 218 | 491 |
| North Carolina A&T State U. | 312 | 0 | 0 | 989 | 551 | 0 | 0 | 989 | 551 |
| Haverford C. | 313 | 0 i | 0 i | 334 i | 549 i | 0 | 0 | 3 | 126 |
| U. Washington, Bothell | 314 | 251 | 297 | 175 | 530 | 203 | 297 | 145 | 413 |

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|------------------------------------|------|--------|--------|--------|------|--------------------|-------|-------|------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| CUNY, C. Staten Island | 315 | 628 | 723 | 690 | 520 | 0 | 0 | 502 | 520 |
| Framingham State U. | 316 | ne | 2,060 | 2,132 | 516 | ne | 0 | 0 | 46 |
| U. Central Arkansas | 317 | 270 | 386 | 293 | 512 | 58 | 115 | 83 | 114 |
| William Paterson U. | 318 | 598 | 650 | 414 | 507 | 0 | 0 | 9 | 7 |
| Northwest Indian C. | 319 | 0 | 365 | 435 | 504 | 0 | 365 | 435 | 504 |
| Naval Postgraduate School | 320 | 55 | 200 | 270 | 456 | 55 | 200 | 270 | 456 |
| Azusa Pacific U. | 321 | 736 | 1,876 | 848 | 451 | 49 | 116 | 42 | 7 |
| SUNY, Downstate Health Sciences U. | 322 | 593 | 815 | 524 | 450 | 170 | 283 | 336 | 0 |
| U. Dayton | 323 | 413 | 216 | 210 | 446 | 319 | 172 | 195 | 434 |
| California State U., Los Angeles | 324 | 522 | 257 | 264 | 439 | 490 | 235 | 235 | 383 |
| Kansas State U. | 325 | 17,881 | 752 | 638 | 434 | 9,584 | 752 | 635 | 384 |
| Dillard U. | 326 | 506 | 224 | 534 | 424 | 506 | 2 | 181 | 94 |
| Robert Morris U. | 327 | ne | ne | ne | 412 | ne | ne | ne | 240 |
| Appalachian State U. | 328 | 45 | 409 | 269 | 404 | 0 | 64 | 53 | 59 |
| Augustana U. | 329 | 483 | ne | 546 | 403 | 483 | ne | 546 | 403 |
| Iowa State U. | 330 | 26,137 | 15,103 | 19,767 | 402 | 7,414 | 5,715 | 6,315 | 402 |
| U. Massachusetts, Dartmouth | 331 | 106 | 77 | 109 | 395 | 0 | 0 | 0 | 0 |
| St. Catherine U. | 332 | ne | ne | ne | 383 | ne | ne | ne | 256 |
| Marymount U. | 333 | ne | ne | 531 | 379 | ne | ne | 163 | 17 |
| Langston U. | 334 | 255 | 1,578 | 1,219 | 378 | 0 | 1,578 | 434 | 0 |
| Pace U. | 335 | 366 | 378 | 342 | 364 | 1 | 19 | 10 | 0 |
| Des Moines U. | 336 | 29 | 567 | 316 | 363 | 10 | 0 | 120 | 187 |
| Alcorn State U. | 337 | 86 | 108 | 294 | 358 | 81 | 107 | 257 | 317 |
| U. Houston-Clear Lake | 338 | 0 | 0 | 92 | 351 | 0 | 0 | 0 | 0 |
| U. Maryland, Eastern Shore | 339 | 106 | 259 | 635 | 347 | 5 | 259 | 635 | 347 |
| California State U., Sacramento | 340 | 356 | 325 | 340 | 324 | 9 | 0 | 0 | 17 |
| Saint John's U. | 341 | 13 | 12 | 275 | 317 | 0 | 0 | 0 | 0 |
| Sonoran U. Health Sciences | 342 | 230 | ne | ne | 312 | 0 | ne | ne | 0 |
| U. West Florida | 343 | 88 | 109 | 45 | 310 | 0 | 28 | 11 | 183 |
| U. San Francisco | 344 | 321 | 195 | 284 | 307 | 0 | 0 | 0 | 56 |
| Texas A&M International U. | 345 | 3,439 | 220 | 8 | 305 | 1,698 | 123 | 0 | 289 |
| Tennessee Technological U. | 346 | 0 | 96 | 143 | 304 | 0 | 0 | 78 | 233 |
| Drake U. | 347 | 115 | ne | 362 | 302 | 42 | ne | 45 | 40 |
| C. of Saint Benedict | 348 | 15 | 14 | 259 | 299 | 0 | 0 | 10 | 11 |
| U. Northern Colorado | 349 | 634 | 311 | 156 | 297 | 179 | 128 | 35 | 32 |

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|---|------|-------|-------|-------|------|--------------------|------|-------|------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| Hofstra U. | 350 | 26 | 47 | 359 | 292 | 0 | 0 | 0 | 0 |
| Texas Christian U. | 351 | 1,527 | 464 | 389 | 284 | 844 | 124 | 178 | 128 |
| U. Akron | 351 | 13 | 183 | 210 | 284 | 0 | 143 | 153 | 196 |
| U. Idaho | 353 | 169 | 121 | 97 | 280 | 87 | 93 | 29 | 65 |
| Albany C. of Pharmacy and Health Sciences | 354 | 348 | 1,033 | 125 | 275 | 214 | 827 | 44 | 152 |
| San Francisco State U. | 355 | 184 | 190 | 205 | 267 | 94 | 42 | 42 | 48 |
| U. Maryland, Baltimore County | 356 | 2,446 | 934 | 22 | 259 | 1,400 | 142 | 4 | 35 |
| Sul Ross State U. | 357 | 0 | 0 | 0 | 254 | 0 | 0 | 0 | 63 |
| Pennsylvania State U., Behrend | 358 | 0 | 0 | 29 | 253 | 0 | 0 | 0 | 238 |
| Albion C. | 359 | 0 | 0 | 0 | 248 | 0 | 0 | 0 | 16 |
| Elon U. | 360 | 268 | 45 | 180 | 238 | 0 | 16 | 0 | 97 |
| U. of the Pacific | 361 | 381 | 341 | 183 | 232 | 278 | 328 | 172 | 214 |
| Skidmore C. | 362 | 1,071 | 852 | 691 | 218 | 948 | 730 | 543 | 80 |
| South Carolina State U. | 363 | 185 | 192 | 199 | 216 | 185 | 192 | 199 | 216 |
| Indiana State U. | 364 | 133 | 55 | 9 | 213 | 42 | 12 | 8 | 170 |
| North Carolina Central U. | 365 | 1,087 | 360 | 73 | 202 | 943 | 302 | 1 | 0 |
| Northern Michigan U. | 366 | 320 | 200 | 121 | 201 | 150 | 0 | 0 | 0 |
| C. New Jersey | 367 | ne | 8 | 13 | 199 | ne | 0 | 0 | 20 |
| California State U., Monterey Bay | 368 | 262 | 49 | 182 | 192 | 196 | 0 | 138 | 157 |
| U. Tulsa | 369 | 135 | 178 | 118 | 180 | 0 | 28 | 0 | 0 |
| CUNY, Brooklyn C. | 370 | 636 | 660 | 65 | 172 | 534 | 556 | 0 | 151 |
| Loyola Marymount U. | 371 | 13 | 6 | 127 | 171 | 0 | 0 | 0 | 0 |
| U. North Carolina, Wilmington | 372 | 159 | 481 | 533 | 169 | 108 | 151 | 129 | 30 |
| Rutgers, State U. New Jersey, Newark | 373 | 0 | 338 | 2,648 | 168 | 0 | 0 | 1,484 | 0 |
| Northwestern State U. Louisiana | 374 | 211 | 176 | 82 | 164 | 34 | 1 | 0 | 13 |
| U. Tennessee, Chattanooga | 375 | 104 | 193 | 132 | 159 | 0 | 0 | 0 | 5 |
| U. South Carolina, Aiken | 376 | 0 | 0 | 0 | 157 | 0 | 0 | 0 | 0 |
| Savannah State U. | 377 | 92 | 152 | 178 | 155 | 92 | 152 | 178 | 155 |
| U. Notre Dame | 377 | 139 | 231 | 163 | 155 | 0 | 0 | 0 | 0 |
| U. Puerto Rico, Rio Piedras | 379 | 71 | 27 | 49 | 151 | 71 | 27 | 13 | 151 |
| U. of the Incarnate Word | 380 | 520 | 531 | 546 | 146 | 520 | 531 | 516 | 146 |
| Western Washington U. | 381 | 0 | 0 | 171 | 145 | 0 | 0 | 0 | 0 |
| SUNY, Polytechnic Institute | 382 | 0 | 0 | 175 | 144 | 0 | 0 | 175 | 144 |
| Western U. of Health Sciences | 382 | 446 | 323 | 35 | 144 | 41 | 14 | 16 | 2 |
| California Institute of Technology | 384 | 2,815 | 46 | 128 | 142 | 0 | 46 | 123 | 142 |

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|---|------|-------|-------|------|-------|--------------------|------|------|------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| CUNY, York C. | 385 | 8 | 9 | 5 | 139 | 0 | 0 | 0 | 134 |
| Franklin and Marshall C. | 386 | 58 | 6 | 163 | 138 | 0 | 0 | 92 | 126 |
| Kean U. | 386 | ne | 120 | 16 | 138 | ne | 0 | 0 | 29 |
| Central Washington U. | 388 | 0 | 0 | 31 | 135 | 0 | 0 | 0 | 0 |
| Western New England U. | 389 | ne | ne | ne | 134 | ne | ne | ne | 134 |
| Smith C. | 390 | 17 | 126 | 146 | 133 | 0 | 14 | 79 | 105 |
| Virginia State U. | 391 | 9 | 179 | 190 | 127 | 9 | 179 | 190 | 127 |
| Eastern Connecticut State U. | 392 | 1 | 5 | 0 | 123 | 0 | 0 | 0 | 0 |
| C. Charleston | 393 | 225 | 146 | 76 | 121 | 25 | 0 | 0 | 19 |
| Southern U. and A&M C., Baton Rouge | 394 | 10 | 2 | 19 | 120 | 8 | 0 | 17 | 120 |
| U. Michigan, Dearborn | 395 | 143 | 261 | 151 | 118 | 103 | 171 | 140 | 116 |
| U. Oregon | 395 | 115 | 1,004 | 817 | 118 | 107 | 4 | 297 | 0 |
| Lamar U. | 397 | 563 | 36 | 32 | 117 | 440 | 0 | 0 | 35 |
| U. Wisconsin-Platteville | 398 | 0 i | 0 i | 98 i | 116 i | 0 i | 0 i | 34 i | 42 i |
| Eastern Washington U. | 399 | 14 | 0 | 6 | 114 | 0 | 0 | 6 | 114 |
| U. New Haven | 399 | 3 | 5 | 11 | 114 | 0 | 0 | 11 | 96 |
| SUNY, C. Plattsburgh | 401 | 306 | 465 | 279 | 112 | 281 | 429 | 279 | 112 |
| U. Virginia's C. Wise | 401 | ne | ne | 0 | 112 | ne | ne | 0 | 108 |
| Ithaca C. | 403 | ne | 303 | 95 | 111 | ne | 276 | 78 | 92 |
| Occidental C. | 404 | 0 | 0 | 86 | 106 i | 0 | 0 | 0 | 0 i |
| Southeastern Louisiana U. | 405 | 138 | 148 | 158 | 104 | 118 | 136 | 139 | 93 |
| Clarkson U. | 406 | 398 | 97 | 93 | 101 | 219 | 54 | 0 | 0 |
| California State Polytechnic U., Humboldt | 407 | 396 | 246 | 129 | 99 | 0 | 0 | 0 | 0 |
| Pepperdine U. | 408 | 11 | 18 | 161 | 96 | 0 | 0 | 0 | 25 |
| Spelman C. | 408 | 58 | 20 | 149 | 96 | 58 | 20 | 149 | 96 |
| Texas A&M U.-Corpus Christi | 410 | 33 | 22 | 162 | 92 | 0 | 0 | 0 | 0 |
| California State U., Stanislaus | 411 | 9 | 6 | 10 | 90 | 0 | 0 | 0 | 80 |
| Calvin U. | 412 | 16 | 47 i | 68 i | 89 i | 0 | 0 i | 0 i | 0 |
| Stephen F. Austin State U. | 413 | 97 | 92 | 79 | 81 | 1 | 0 | 0 | 0 |
| Arkansas State U., Jonesboro | 414 | 28 | 32 | 36 | 77 | 0 | 0 | 0 | 0 |
| Clafin U. | 415 | 0 | 0 | 23 | 76 | 0 | 0 | 23 | 76 |
| Furman U. | 416 | 52 | 72 | 39 | 75 | 52 | 39 | 26 | 0 |
| Seattle U. | 417 | 0 | 0 | 0 | 73 | 0 | 0 | 0 | 69 |
| Hawaii Pacific U. | 418 | 5 | 0 | 0 | 72 | 0 | 0 | 0 | 12 |
| U. Hartford | 418 | 0 | 101 | 77 | 72 | 0 | 101 | 77 | 67 |

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|--------------------------------------|------|-------|------|------|------|--------------------|------|------|------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| Indiana U. Pennsylvania | 420 | 129 | 144 | 59 | 70 | 0 | 0 | 0 | 0 |
| Texas A&M U.-Commerce | 420 | 87 | 47 | 86 | 70 | 0 | 0 | 0 | 0 |
| Colorado School of Mines | 422 | 88 | 132 | 257 | 67 | 88 | 125 | 242 | 60 |
| California State U., San Bernardino | 423 | 57 | 9 | 11 | 63 | 5 | 0 | 0 | 0 |
| Texas A&M U.-San Antonio | 424 | ne | ne | ne | 59 | ne | ne | ne | 0 |
| U. San Diego | 424 | 219 | 121 | 74 | 59 | 22 | 34 | 9 | 0 |
| Norfolk State U. | 426 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 8 |
| East Stroudsburg U. Pennsylvania | 427 | ne | ne | ne | 54 | ne | ne | ne | 0 |
| U. Colorado Colorado Springs | 428 | 18 | 62 | 0 | 43 | 0 | 0 | 0 | 0 |
| U. Texas of the Permian Basin | 428 | ne | 0 | 8 | 43 | ne | 0 | 0 | 0 |
| Florida Institute of Technology | 430 | 0 | 0 | 588 | 42 | 0 | 0 | 460 | 0 |
| California State U., Dominguez Hills | 431 | 24 | 21 | 64 | 41 | 0 | 0 | 0 | 0 |
| Winthrop U. | 432 | 259 | 401 | 13 | 38 | 259 | 401 | 0 | 38 |
| William & Mary | 433 | 0 | 0 | 19 | 35 | 0 | 0 | 0 | 0 |
| CUNY, Lehman C. | 434 | 0 | 1 | 68 | 32 | 0 | 0 | 68 | 19 |
| Fort Lewis C. | 434 | 0 | 11 | 25 | 32 | 0 | 0 | 0 | 32 |
| Youngstown State U. | 434 | 31 | 27 | 28 | 32 | 0 | 0 | 20 | 20 |
| U. Illinois, Springfield | 437 | 4 | 0 | 1 | 31 | 0 | 0 | 1 | 28 |
| California State U., San Marcos | 438 | 372 | 324 | 128 | 30 | 372 | 254 | 100 | 30 |
| Catholic U. of America | 438 | 735 | 667 | 444 | 30 | 541 | 432 | 287 | 30 |
| Citadel Military C. South Carolina | 440 | ne | 34 | 5 | 29 | ne | 0 | 0 | 0 |
| Prairie View A&M U. | 441 | 0 | 48 | 28 | 27 | 0 | 48 | 28 | 26 |
| U. Wisconsin-Eau Claire | 441 | 49 | 46 | 58 | 27 | 0 | 0 | 0 | 0 |
| SUNY, C. Brockport | 443 | 26 | 12 | 76 | 26 | 0 | 0 | 0 | 0 |
| U. Southern Maine | 444 | 0 | 74 | 59 | 24 | 0 | 22 | 14 | 0 |
| Rhode Island C. | 445 | 64 | 268 | 116 | 23 | 45 | 0 | 22 | 22 |
| Tuskegee U. | 445 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 23 |
| U. Wisconsin-Oshkosh | 445 | 4 i | 5 i | 5 | 23 | 0 i | 0 i | 0 | 0 |
| California State U., Channel Islands | 448 | 6 | 0 | 153 | 22 | 0 | 0 | 141 | 0 |
| U. Puget Sound | 448 | ne | 20 | ne | 22 | ne | 0 | ne | 0 |
| Trinity U. | 450 | 0 | 6 | 6 | 21 | 0 | 0 | 0 | 0 |
| Davidson C. | 451 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 |
| St. Cloud State U. | 451 | 36 | 78 | 16 | 18 | 0 | 0 | 0 | 1 |
| U. Wisconsin-La Crosse | 451 | 8 | 22 | 12 | 18 | 0 | 0 | 0 | 0 |
| Macalester C. | 454 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 16 |

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|--|------|---------|---------|--------|------|--------------------|---------|--------|------|
| | | 2019 | 2020 | 2021 | 2022 | 2019 | 2020 | 2021 | 2022 |
| Lehigh U. | 455 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 14 |
| Tennessee State U. | 455 | 167 | 630 | 19 i | 14 | 43 | 609 | 19 i | 14 |
| U. North Georgia | 457 | 128 | 67 | 2 | 13 | 74 | 67 | 0 | 0 |
| Coastal Carolina U. | 458 | 0 | 0 | 2 | 11 | 0 | 0 | 0 | 0 |
| California State U., Chico | 459 | 1 | 0 | 35 | 10 | 0 | 0 | 0 | 0 |
| Mercyhurst U. | 459 | 16 i | 15 i | 12 i | 10 | 0 i | 0 i | 0 i | 0 |
| Sonoma State U. | 459 | ne | 45 | 16 | 10 | ne | 17 | 12 | 7 |
| U. Northern Iowa | 459 | 0 | 1 | 4 | 10 | 0 | 0 | 0 | 0 |
| Rice U. | 463 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 |
| CUNY, John Jay C. of Criminal Justice | 464 | 81 | 28 | 5 | 8 | 2 | 2 | 5 | 0 |
| Troy U. | 464 | ne | 2 | 2 | 8 | ne | 0 | 0 | 0 |
| West Virginia State U. | 464 | 113 | 0 | 24 | 8 | 80 | 0 | 24 | 8 |
| Roger Williams U. | 467 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 7 |
| Austin Peay State U. | 468 | 3 | 3 | 1 | 6 | 0 | 0 | 0 | 0 |
| CUNY, system office | 469 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Lewis and Clark C. | 470 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| Hope C. | 471 | 0 | 7 | 22 | 3 | 0 | 0 | 0 | 0 |
| Missouri State U. | 471 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| U. Wisconsin-Stevens Point | 473 | 20 i | 23 | 2 | 2 | 16 i | 19 | 0 | 0 |
| SUNY, C. of Environmental Science and Forestry | 474 | 0 | 0 | 0 | 1 i | 0 | 0 | 0 | 0 |
| SUNY, Oswego | 474 | 5 | 5 | 6 | 1 | 0 | 0 | 0 | 0 |
| Willamette U. | 474 | 33 | 12 | 2 | 1 | 0 | 0 | 0 | 0 |
| All other surveyed institutions | - | 541,327 | 550,347 | 30,801 | 0 | 350,942 | 349,521 | 22,103 | 0 |

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

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$11,070 thousand imputed for total and \$9,866 thousand reported for federally financed R&D expenditures in health sciences in FY 2022. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^c 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.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of

the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^e 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):

Institutions reporting zero expenditures in ranked total for FY 2022 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):

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