

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|---|------|------------|------------|------------|------------|--------------------|-----------|------------|------------|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 |
| All institutions | - | 14,292,584 | 15,662,654 | 17,476,575 | 19,271,406 | 8,713,443 | 9,759,538 | 10,937,698 | 12,185,245 |
| Johns Hopkins U. ^a | 1 | 1,237,980 | 1,324,646 | 1,493,689 | 1,712,148 | 1,183,154 | 1,264,048 | 1,436,413 | 1,645,349 |
| Georgia Institute of Technology | 2 | 839,071 | 935,632 | 1,061,402 | 1,134,820 | 666,235 | 739,429 | 847,360 | 923,812 |
| Texas A&M U., College Station and Health Science Center | 3 | 385,656 | 402,999 | 464,769 | 496,787 | 123,286 | 138,068 | 170,864 | 176,573 |
| Pennsylvania State U., University Park and Hershey Medical Center | 4 | 378,667 | 385,594 | 453,476 | 471,961 | 284,244 | 300,829 | 348,549 | 374,697 |
| U. Texas, Austin | 5 | 279,730 | 319,719 | 360,947 | 418,949 | 194,110 | 216,881 | 249,098 | 258,113 |
| Massachusetts Institute of Technology | 6 | 382,569 | 397,946 | 404,440 | 413,889 | 193,246 | 215,477 | 226,746 | 240,944 |
| Purdue U., West Lafayette | 7 | 285,469 | 312,394 | 360,289 | 393,296 | 137,052 | 163,895 | 188,696 | 221,032 |
| U. Michigan, Ann Arbor | 8 | 279,682 | 299,254 | 324,306 | 371,562 | 180,607 | 189,405 | 206,437 | 239,934 |
| Wichita State U. | 9 | 157,430 | 226,111 | 336,096 | 360,009 | 64,692 | 88,257 | 136,780 | 174,719 |
| Utah State U. | 10 | 247,332 | 259,482 | 308,386 | 356,169 | 228,986 | 239,736 | 280,768 | 320,010 |
| U. Illinois, Urbana-Champaign | 11 | 216,233 | 228,786 | 272,650 | 351,544 | 139,887 | 144,390 | 176,925 | 235,831 |
| SUNY, U. Albany | 12 | 3,133 | 4,266 | 4,562 | 322,259 | 1,393 | 1,355 | 1,412 | 54,417 |
| Virginia Polytechnic Institute and State U. | 13 | 246,965 | 260,158 | 261,707 | 277,605 | 108,080 | 114,336 | 128,941 | 133,336 |
| Arizona State U. | 14 | 145,574 | 192,681 | 265,026 | 277,309 | 73,746 | 85,208 | 98,381 | 103,574 |
| Ohio State U. | 15 | 163,509 | 219,388 | 242,745 | 261,381 | 88,435 | 103,560 | 113,636 | 130,390 |
| U. California, San Diego | 16 | 177,564 | 212,583 | 176,720 | 250,772 | 100,212 | 129,923 | 114,380 | 161,714 |
| U. Maryland ^b | 17 | 154,163 | 164,304 | 183,899 | 218,811 | 95,898 | 104,247 | 112,818 | 135,156 |
| North Carolina State U. | 18 | 172,900 | 171,162 | 196,594 | 218,277 | 91,430 | 88,636 | 100,328 | 116,334 |
| U. California, Berkeley | 19 | 199,711 | 206,541 | 209,311 | 216,013 | 78,026 | 93,638 | 92,895 | 101,760 |
| U. Dayton | 20 | 180,158 | 195,856 | 198,049 | 211,395 | 171,865 | 189,150 | 188,040 | 201,784 |
| U. Wisconsin-Madison | 21 | 131,709 | 148,673 | 171,445 | 194,988 | 75,104 | 85,549 | 93,870 | 108,643 |
| U. Washington, Seattle | 22 | 157,622 | 172,004 | 180,277 | 188,972 | 119,758 | 127,827 | 139,691 | 144,745 |
| U. Colorado Boulder | 23 | 177,604 | 191,531 | 175,118 | 177,788 | 132,769 | 148,185 | 140,779 | 143,267 |
| Cornell U. | 24 | 118,621 | 125,320 | 149,807 | 176,068 | 72,771 | 73,646 | 84,312 | 96,296 |
| U. Delaware | 25 | 90,327 | 123,997 | 161,894 | 174,863 | 68,504 | 88,552 | 90,547 | 102,183 |
| Stanford U. | 26 | 136,251 | 142,213 | 158,868 | 164,503 | 89,861 | 89,919 | 100,033 | 102,868 |
| U. Minnesota, Twin Cities | 27 | 121,637 | 131,042 | 145,670 | 160,821 | 78,808 | 84,060 | 92,997 | 98,159 |
| Carnegie Mellon U. | 28 | 112,597 | 138,117 | 155,436 | 160,149 | 63,083 | 84,680 | 95,826 | 99,312 |
| Iowa State U. | 29 | 123,428 | 132,475 | 140,782 | 159,841 | 62,113 | 66,024 | 73,907 | 87,445 |
| U. Florida | 30 | 122,704 | 134,339 | 150,126 | 153,888 | 72,191 | 79,991 | 84,288 | 92,195 |
| Northeastern U. | 31 | 92,723 | 92,855 | 119,529 | 148,866 | 69,550 | 72,409 | 96,495 | 116,014 |
| New York U. | 32 | 99,307 | 119,160 | 132,311 | 142,831 | 18,633 | 20,507 | 24,015 | 27,857 |
| Rice U. | 33 | 100,872 | 110,648 | 129,719 | 137,077 | 46,799 | 53,851 | 61,759 | 63,505 |
| U. California, Los Angeles | 34 | 93,906 | 98,403 | 113,969 | 128,854 | 53,761 | 65,455 | 62,859 | 72,994 |
| U. Tennessee, Knoxville | 35 | 128,579 | 115,464 | 116,222 | 128,648 | 66,556 | 70,892 | 70,876 | 80,267 |
| SUNY, U. Buffalo | 36 | 100,194 | 109,870 | 123,383 | 124,566 | 66,790 | 67,985 | 83,743 | 89,397 |

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|--|------|---------|---------|---------|---------|--------------------|--------|--------|--------|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 |
| U. Pennsylvania | 37 | 88,937 | 106,282 | 112,740 | 124,526 | 49,526 | 54,427 | 56,036 | 63,768 |
| U. Virginia, Charlottesville | 38 | 62,271 | 65,604 | 112,702 | 122,919 | 37,143 | 42,481 | 65,008 | 75,189 |
| Auburn U., Auburn | 39 | 78,720 | 93,219 | 108,344 | 122,623 | 40,288 | 47,059 | 50,218 | 61,879 |
| Columbia U. in the City of New York | 40 | 75,457 | 87,884 | 100,161 | 122,102 | 64,962 | 73,487 | 80,040 | 98,956 |
| U. Utah | 41 | 48,225 | 111,749 | 113,129 | 122,011 | 29,330 | 99,830 | 93,722 | 99,597 |
| U. Arizona | 42 | 72,158 | 84,682 | 103,771 | 121,989 | 34,360 | 42,072 | 49,493 | 63,611 |
| U. North Dakota | 43 | 86,578 | 84,614 | 105,141 | 121,983 | 35,155 | 33,233 | 27,690 | 49,346 |
| Northwestern U. | 44 | 80,735 | 88,008 | 93,785 | 120,781 | 55,739 | 56,993 | 57,708 | 71,574 |
| Duke U. | 45 | 94,483 | 102,748 | 109,885 | 119,628 | 74,308 | 80,356 | 85,594 | 92,243 |
| Clemson U. | 46 | 90,038 | 98,733 | 103,188 | 119,002 | 46,693 | 62,349 | 65,399 | 78,025 |
| Boston U. | 47 | 79,757 | 91,643 | 111,856 | 114,080 | 48,537 | 54,675 | 62,597 | 61,737 |
| U. California, Santa Barbara | 48 | 86,303 | 97,329 | 111,017 | 108,076 | 44,958 | 67,267 | 77,243 | 73,488 |
| U. Notre Dame | 49 | 90,572 | 103,773 | 113,853 | 107,700 | 42,501 | 50,651 | 57,913 | 49,799 |
| Harvard U. | 50 | 92,782 | 96,920 | 99,830 | 106,255 | 50,918 | 47,017 | 42,222 | 47,442 |
| U. California, Davis | 51 | 102,370 | 114,118 | 124,470 | 104,694 | 43,175 | 56,254 | 59,180 | 61,028 |
| Princeton U. | 52 | 67,231 | 78,831 | 87,035 | 101,614 | 44,201 | 52,615 | 52,300 | 61,067 |
| Michigan State U. | 53 | 79,360 | 81,143 | 86,949 | 98,696 | 31,314 | 34,356 | 37,598 | 42,260 |
| Woods Hole Oceanographic Institution | 54 | 101,989 | 88,997 | 93,312 | 96,345 | 93,266 | 82,286 | 84,259 | 82,740 |
| U. California, Irvine | 55 | 65,454 | 75,898 | 84,902 | 95,016 | 29,315 | 40,869 | 45,509 | 54,028 |
| New Jersey Institute of Technology | 56 | 82,240 | 83,738 | 90,849 | 93,704 | 50,822 | 48,863 | 53,008 | 53,370 |
| U. Southern California | 57 | 78,179 | 63,694 | 82,633 | 90,850 | 51,948 | 54,438 | 68,833 | 75,260 |
| U. Connecticut | 58 | 54,185 | 68,902 | 72,672 | 84,479 | 37,988 | 42,418 | 46,010 | 50,829 |
| U. Massachusetts, Amherst | 59 | 60,065 | 67,776 | 82,841 | 84,141 | 32,063 | 35,204 | 41,770 | 42,825 |
| U. Pittsburgh, Pittsburgh | 60 | 56,681 | 65,936 | 82,238 | 83,908 | 37,749 | 43,571 | 54,013 | 55,239 |
| Vanderbilt U. and Vanderbilt U. Medical Center | 61 | 86,541 | 78,534 | 82,313 | 83,016 | 43,570 | 52,364 | 53,911 | 54,388 |
| Florida State U. | 62 | 52,153 | 58,212 | 67,635 | 82,132 | 34,492 | 37,798 | 43,395 | 49,673 |
| U. Nebraska, Lincoln and Medical Center ^c | 63 | na | na | 76,802 | 80,020 | na | na | 37,913 | 39,652 |
| Oregon State U. | 64 | 52,731 | 58,552 | 71,532 | 79,966 | 38,914 | 44,377 | 55,520 | 63,123 |
| Montana State U., Bozeman | 65 | 51,785 | 54,188 | 67,024 | 79,284 | 39,190 | 42,936 | 54,709 | 64,978 |
| U. Oklahoma ^d | 66 | 39,785 | 44,727 | 58,746 | 76,633 | 15,235 | 20,850 | 30,388 | 43,975 |
| California Institute of Technology | 67 | 51,630 | 51,975 | 73,871 | 75,727 | 24,011 | 25,812 | 41,780 | 42,627 |
| U. Houston | 68 | 56,555 | 64,026 | 67,684 | 74,661 | 26,599 | 28,251 | 31,432 | 32,379 |
| U. Central Florida | 69 | 57,620 | 59,060 | 68,340 | 72,550 | 36,318 | 37,217 | 41,638 | 39,493 |
| U. Texas, Arlington | 70 | 58,154 | 61,467 | 64,548 | 72,342 | 23,581 | 28,177 | 26,470 | 32,308 |
| Rensselaer Polytechnic Institute | 71 | 67,810 | 63,146 | 66,158 | 71,966 | 31,832 | 29,720 | 34,192 | 37,669 |
| Case Western Reserve U. | 72 | 39,079 | 41,783 | 59,900 | 71,589 | 30,483 | 31,686 | 43,497 | 51,107 |
| U. Maine | 73 | 46,986 | 68,261 | 72,340 | 71,425 | 27,452 | 44,010 | 46,933 | 47,381 |

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|---|------|--------|--------|--------|--------|--------------------|--------|--------|--------|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 |
| U. Texas, Dallas | 74 | 50,646 | 51,310 | 55,368 | 70,912 | 24,793 | 24,404 | 25,609 | 35,307 |
| George Mason U. | 75 | 49,826 | 57,196 | 61,036 | 70,807 | 44,086 | 50,246 | 49,947 | 61,653 |
| Mississippi State U. | 76 | 67,472 | 73,980 | 78,080 | 68,736 | 44,188 | 48,255 | 54,768 | 45,257 |
| Louisiana State U., Baton Rouge | 77 | 39,104 | 53,974 | 63,779 | 68,678 | 11,014 | 12,249 | 15,748 | 18,393 |
| U. Kentucky | 78 | 52,361 | 61,287 | 62,529 | 67,561 | 33,001 | 38,078 | 37,882 | 41,051 |
| Colorado School of Mines | 79 | 54,062 | 60,371 | 61,175 | 67,559 | 37,909 | 42,745 | 39,767 | 37,481 |
| U. South Florida | 80 | 50,547 | 50,859 | 62,025 | 65,144 | 26,183 | 27,554 | 34,863 | 37,276 |
| U. Arkansas, Fayetteville | 81 | 37,818 | 40,691 | 49,645 | 63,086 | 17,980 | 22,533 | 27,734 | 40,136 |
| U. Alabama, Tuscaloosa | 82 | 43,941 | 49,885 | 51,029 | 62,000 | 25,859 | 30,544 | 32,570 | 35,907 |
| U. North Carolina, Chapel Hill | 83 | 30,935 | 39,242 | 49,721 | 61,707 | 19,983 | 22,510 | 24,138 | 24,363 |
| U. Cincinnati | 84 | 42,434 | 46,955 | 54,548 | 61,486 | 12,970 | 14,790 | 17,940 | 21,031 |
| Colorado State U., Fort Collins | 85 | 41,575 | 47,833 | 52,539 | 60,498 | 30,424 | 36,428 | 39,358 | 45,414 |
| Texas Tech U. | 86 | 41,962 | 46,952 | 53,564 | 59,044 | 15,359 | 18,858 | 27,046 | 27,507 |
| Rutgers, State U. New Jersey, New Brunswick | 87 | 51,289 | 57,490 | 61,910 | 58,726 | 35,691 | 35,877 | 40,402 | 43,715 |
| U. South Carolina, Columbia | 88 | 36,222 | 35,508 | 47,155 | 58,185 | 16,470 | 21,003 | 27,685 | 37,731 |
| U. Iowa | 89 | 47,722 | 49,233 | 57,579 | 58,044 | 23,116 | 24,367 | 27,689 | 28,476 |
| U. Massachusetts, Lowell | 90 | 36,339 | 44,358 | 51,877 | 57,744 | 18,884 | 26,414 | 25,882 | 24,305 |
| Oklahoma State U., Stillwater | 91 | 35,094 | 36,217 | 44,510 | 57,116 | 15,319 | 16,574 | 21,997 | 28,600 |
| Stevens Institute of Technology | 92 | 33,983 | 43,702 | 50,295 | 57,044 | 26,766 | 34,630 | 36,535 | 51,228 |
| Florida International U. | 93 | 41,740 | 48,549 | 56,199 | 56,953 | 23,801 | 31,994 | 37,670 | 38,236 |
| U. New Mexico | 94 | 41,317 | 45,191 | 51,318 | 56,542 | 33,001 | 37,091 | 42,513 | 48,418 |
| Missouri U. of Science and Technology | 95 | 43,470 | 43,119 | 51,351 | 55,848 | 21,797 | 24,061 | 27,984 | 31,186 |
| Michigan Technological U. | 96 | 46,733 | 48,400 | 54,177 | 55,630 | 26,289 | 27,496 | 27,248 | 26,911 |
| U. Alabama, Huntsville | 97 | 55,510 | 53,958 | 55,164 | 54,721 | 44,780 | 43,390 | 42,694 | 41,923 |
| U. California, Santa Cruz | 98 | 49,576 | 55,542 | 57,256 | 54,214 | 33,002 | 43,539 | 42,217 | 42,826 |
| West Virginia U. | 99 | 39,855 | 43,972 | 50,052 | 53,100 | 18,042 | 21,919 | 23,114 | 28,943 |
| Dartmouth C. and Dartmouth Hitchcock Medical Center | 100 | 33,559 | 36,219 | 41,232 | 50,635 | 24,126 | 25,052 | 28,224 | 34,831 |
| U. Chicago | 101 | 30,018 | 41,866 | 47,857 | 50,292 | 25,909 | 35,751 | 40,732 | 41,638 |
| Washington State U. | 102 | 48,031 | 45,571 | 47,254 | 50,128 | 23,129 | 20,359 | 22,414 | 25,351 |
| SUNY, Binghamton U. | 103 | 39,529 | 33,595 | 45,755 | 49,701 | 7,463 | 8,326 | 11,658 | 10,531 |
| U. Texas, El Paso | 104 | 26,599 | 40,798 | 45,627 | 48,749 | 15,602 | 26,326 | 28,605 | 31,589 |
| SUNY, Stony Brook U. | 105 | 28,344 | 38,670 | 40,873 | 46,622 | 17,613 | 25,968 | 28,320 | 30,036 |
| U. Illinois, Chicago | 106 | 35,675 | 39,656 | 46,820 | 45,603 | 21,610 | 24,287 | 29,282 | 29,813 |
| New Mexico State U. | 107 | 29,884 | 40,367 | 40,884 | 45,317 | 19,957 | 29,723 | 28,215 | 32,572 |
| Yale U. | 108 | 35,778 | 36,714 | 40,153 | 45,279 | 23,578 | 23,926 | 24,446 | 25,867 |
| Washington U., Saint Louis | 109 | 26,574 | 28,151 | 33,691 | 43,826 | 22,291 | 24,042 | 28,140 | 33,435 |
| Drexel U. | 110 | 32,665 | 38,649 | 44,002 | 43,751 | 20,821 | 27,063 | 31,364 | 28,576 |

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(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|---|------|--------|--------|--------|--------|--------------------|--------|--------|--------|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 |
| U. California, Riverside | 111 | 34,888 | 32,758 | 36,650 | 42,901 | 18,541 | 21,080 | 23,236 | 25,594 |
| U. Louisiana, Lafayette | 112 | 30,295 | 32,259 | 35,532 | 42,556 | 6,909 | 9,736 | 10,734 | 11,913 |
| Worcester Polytechnic Institute | 113 | 27,108 | 31,514 | 37,920 | 40,692 | 16,095 | 18,401 | 20,579 | 23,190 |
| Tufts U. | 114 | 24,017 | 32,535 | 34,614 | 39,166 | 19,362 | 19,796 | 20,965 | 23,493 |
| U. Nevada, Reno | 115 | 27,769 | 32,454 | 41,198 | 38,129 | 11,419 | 11,896 | 14,595 | 17,958 |
| Emory U. | 116 | 11,488 | 16,415 | 26,414 | 37,498 | 8,356 | 10,545 | 17,322 | 25,715 |
| Naval Postgraduate School | 117 | 24,254 | 21,556 | 27,413 | 37,396 | 20,798 | 13,920 | 21,980 | 33,853 |
| U.S. Air Force Academy | 118 | 29,132 | 33,169 | 36,441 | 37,077 | 28,914 | 32,709 | 35,804 | 36,045 |
| U. North Texas, Denton | 119 | 18,285 | 23,078 | 27,249 | 36,595 | 7,232 | 10,227 | 13,452 | 19,254 |
| Virginia Commonwealth U. | 120 | 32,233 | 30,518 | 29,890 | 35,917 | 9,924 | 9,441 | 8,436 | 13,703 |
| U. Alaska, Fairbanks | 121 | 17,314 | 17,869 | 31,211 | 35,676 | 11,355 | 12,504 | 13,928 | 16,904 |
| Lehigh U. | 122 | 25,835 | 28,948 | 32,406 | 35,324 | 16,976 | 19,098 | 21,706 | 24,202 |
| U. New Hampshire | 123 | 22,509 | 25,040 | 29,519 | 34,616 | 8,984 | 9,665 | 13,998 | 17,173 |
| George Washington U. | 124 | 22,749 | 23,736 | 29,442 | 33,883 | 15,052 | 13,339 | 14,653 | 17,724 |
| Kansas State U. | 125 | 27,743 | 29,980 | 30,352 | 33,623 | 13,810 | 15,266 | 15,212 | 15,581 |
| U. Kansas | 126 | 21,363 | 22,075 | 25,610 | 33,322 | 12,206 | 13,244 | 15,825 | 20,360 |
| Rochester Institute of Technology | 127 | 20,874 | 22,869 | 28,126 | 33,180 | 10,659 | 10,560 | 11,359 | 13,580 |
| Brown U. | 128 | 23,587 | 29,569 | 27,640 | 33,027 | 15,963 | 18,304 | 20,340 | 21,818 |
| Mercer U. | 129 | 40,439 | 38,452 | 33,284 | 32,951 | 31,923 | 29,959 | 26,989 | 26,134 |
| U. Wyoming | 130 | 24,675 | 28,379 | 23,084 | 32,812 | 7,391 | 17,026 | 9,991 | 8,246 |
| New Mexico Institute of Mining and Technology | 131 | 13,002 | 53,897 | 76,286 | 32,554 | 10,164 | 45,940 | 68,220 | 21,001 |
| Brigham Young U., Provo | 132 | 20,162 | 19,599 | 26,923 | 31,754 | 15,694 | 15,386 | 14,299 | 15,355 |
| Old Dominion U. | 133 | 25,811 | 28,288 | 32,001 | 31,644 | 9,683 | 11,184 | 11,962 | 14,011 |
| U. Hawaii, Manoa | 134 | 23,966 | 24,574 | 29,058 | 31,201 | 16,553 | 17,241 | 20,303 | 21,422 |
| U. Georgia | 135 | 20,289 | 22,379 | 27,420 | 30,656 | 8,139 | 10,503 | 11,735 | 12,285 |
| U. Missouri, Columbia | 136 | 56,685 | 78,494 | 24,365 | 30,592 | 15,905 | 17,346 | 16,700 | 21,004 |
| U. Texas, San Antonio | 137 | 21,499 | 24,403 | 25,584 | 30,334 | 7,346 | 10,333 | 11,142 | 11,909 |
| U. Alabama, Birmingham | 138 | 46,844 | 30,637 | 28,505 | 30,203 | 43,477 | 22,205 | 15,320 | 17,486 |
| North Carolina A&T State U. | 139 | 11,616 | 18,186 | 20,925 | 29,902 | 9,071 | 10,157 | 14,059 | 16,157 |
| North Dakota State U. | 140 | 13,963 | 20,187 | 25,034 | 26,245 | 4,341 | 10,191 | 13,852 | 15,107 |
| U. Louisville | 141 | 20,965 | 23,630 | 24,702 | 25,846 | 11,844 | 14,712 | 15,122 | 12,461 |
| U. Memphis | 142 | 9,464 | 11,825 | 14,577 | 25,468 | 2,275 | 4,518 | 5,852 | 8,645 |
| Syracuse U. | 143 | 24,698 | 21,602 | 24,796 | 25,436 | 8,013 | 7,290 | 8,149 | 8,619 |
| CUNY, City C. | 144 | 34,710 | 36,189 | 21,627 | 25,432 | 18,078 | 19,125 | 17,700 | 17,144 |
| Air Force Institute of Technology | 145 | 26,780 | 27,794 | 37,232 | 24,545 | 17,065 | 21,622 | 29,188 | 19,073 |
| Rowan U. | 146 | 11,570 | 15,432 | 19,322 | 24,283 | 8,035 | 9,274 | 9,769 | 10,466 |
| Embry-Riddle Aeronautical U. | 147 | 11,279 | 16,049 | 13,774 | 22,820 | 9,272 | 14,083 | 12,190 | 16,941 |

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(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|---|------|--------|--------|--------|--------|--------------------|--------|--------|--------|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 |
| U. North Carolina, Charlotte | 148 | 15,643 | 15,096 | 23,417 | 22,653 | 9,381 | 8,783 | 9,789 | 8,964 |
| U. Rochester | 149 | 16,780 | 22,179 | 22,767 | 22,234 | 14,213 | 17,031 | 18,978 | 18,478 |
| Cleveland State U. | 150 | 12,371 | 14,519 | 15,061 | 21,401 | 7,748 | 9,597 | 9,606 | 15,192 |
| U. Nevada, Las Vegas | 151 | 10,667 | 12,665 | 13,866 | 21,008 | 4,037 | 5,031 | 6,771 | 9,722 |
| U. Vermont | 152 | 11,914 | 11,621 | 18,270 | 20,298 | 5,537 | 5,794 | 9,208 | 10,601 |
| Boise State U. | 153 | 14,918 | 14,758 | 17,088 | 19,438 | 9,596 | 11,149 | 14,082 | 15,583 |
| Indiana U., Bloomington | 154 | 13,012 | 12,030 | 25,104 | 18,075 | 5,752 | 7,149 | 18,033 | 13,357 |
| U. California, Merced | 155 | 13,854 | 11,997 | 21,052 | 18,045 | 4,627 | 5,007 | 7,349 | 9,096 |
| U. Missouri, Kansas City | 156 | 9,174 | 12,219 | 16,959 | 17,747 | 7,506 | 9,153 | 12,734 | 11,587 |
| U. Rhode Island | 157 | 10,766 | 11,931 | 14,637 | 17,567 | 7,962 | 9,997 | 11,545 | 13,733 |
| Tennessee Technological U. | 158 | 8,455 | 7,436 | 9,802 | 17,343 | 3,392 | 2,549 | 4,141 | 8,792 |
| Ohio U. | 159 | 16,645 | 17,216 | 16,193 | 17,228 | 5,340 | 5,209 | 4,985 | 5,843 |
| Wayne State U. | 160 | 11,675 | 13,632 | 13,718 | 17,171 | 5,695 | 6,722 | 7,106 | 8,701 |
| Florida Atlantic U. | 161 | 17,064 | 16,449 | 17,629 | 17,107 | 11,045 | 9,749 | 12,770 | 12,064 |
| San Diego State U. | 162 | 10,715 | 14,193 | 16,138 | 17,100 | 4,553 | 5,143 | 6,656 | 6,328 |
| South Dakota School of Mines and Technology | 163 | 13,658 | 17,162 | 15,552 | 16,592 | 9,834 | 12,779 | 11,074 | 12,315 |
| Western Michigan U. and Homer Stryker M.D. School of Medicine | 164 | 8,058 | 9,515 | 14,491 | 16,263 | 4,194 | 3,994 | 4,884 | 4,276 |
| Baylor U. | 165 | 7,241 | 9,061 | 11,454 | 16,077 | 1,598 | 2,307 | 2,815 | 5,050 |
| Illinois Institute of Technology | 166 | 13,737 | 12,502 | 13,311 | 15,745 | 11,070 | 10,795 | 11,065 | 11,876 |
| Oregon Health and Science U. | 167 | 13,526 | 13,373 | 14,960 | 15,628 | 10,841 | 10,647 | 12,097 | 12,020 |
| Florida A&M U. | 168 | 5,222 | 5,752 | 9,530 | 15,567 | 4,852 | 5,427 | 8,959 | 13,346 |
| Louisiana Tech U. | 169 | 11,257 | 11,673 | 15,078 | 15,478 | 4,117 | 3,120 | 4,122 | 5,956 |
| U. Texas Rio Grande Valley | 170 | 5,354 | 7,844 | 11,028 | 15,318 | 2,885 | 4,536 | 6,988 | 10,317 |
| Clarkson U. | 171 | 10,113 | 12,446 | 14,568 | 15,279 | 4,577 | 5,180 | 6,413 | 8,051 |
| Texas State U. | 172 | 9,321 | 9,722 | 11,165 | 15,009 | 1,537 | 2,429 | 3,577 | 4,936 |
| U. Idaho | 173 | 12,944 | 13,720 | 13,229 | 14,091 | 6,705 | 7,063 | 6,244 | 6,475 |
| U. Mississippi | 174 | 6,033 | 8,095 | 11,818 | 13,909 | 4,487 | 3,779 | 4,284 | 7,005 |
| Villanova U. | 175 | 9,484 | 9,453 | 11,370 | 13,792 | 2,122 | 1,949 | 3,147 | 3,935 |
| U. Puerto Rico, Mayaguez | 176 | 11,397 | 8,482 | 7,401 | 13,622 | 8,136 | 7,325 | 6,545 | 9,437 |
| Missouri State U. | 177 | 7,024 | 8,630 | 12,633 | 13,388 | 6,872 | 8,396 | 11,680 | 12,078 |
| Howard U. | 178 | 9,535 | 10,431 | 11,221 | 13,345 | 7,420 | 8,156 | 6,744 | 7,664 |
| Marquette U. | 179 | 9,027 | 10,278 | 12,351 | 13,202 | 3,866 | 5,605 | 7,361 | 8,350 |
| Morgan State U. | 180 | 8,031 | 8,375 | 10,725 | 12,790 | 5,001 | 5,514 | 5,962 | 7,369 |
| Southern Methodist U. | 181 | 9,972 | 7,313 | 8,535 | 12,774 | 3,590 | 2,769 | 2,612 | 3,859 |
| California State U., Sacramento | 182 | 5,986 | 8,253 | 11,433 | 12,631 | 2,687 | 3,718 | 7,114 | 6,039 |
| U. Massachusetts, Dartmouth | 183 | 8,049 | 8,480 | 11,936 | 12,418 | 2,434 | 2,245 | 3,203 | 4,021 |
| Texas A&M U.-Corpus Christi | 184 | 6,590 | 8,737 | 9,507 | 12,277 | 2,340 | 4,257 | 1,905 | 3,800 |

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|--|------|--------|--------|--------|--------|--------------------|-------|-------|-------|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 |
| U. Toledo | 185 | 10,299 | 11,957 | 11,520 | 11,782 | 7,574 | 8,517 | 7,048 | 6,322 |
| U. Wisconsin-Milwaukee | 186 | 8,577 | 8,246 | 9,725 | 11,760 | 3,193 | 2,907 | 3,322 | 3,712 |
| U. South Alabama | 187 | 5,085 | 6,231 | 7,228 | 11,730 | 3,209 | 4,296 | 5,784 | 8,535 |
| U. Southern Mississippi | 188 | 5,963 | 7,380 | 10,921 | 11,700 | 1,970 | 2,661 | 5,330 | 5,402 |
| U. Texas Southwestern Medical Center | 189 | 0 | 0 | 0 | 11,682 | 0 | 0 | 0 | 1,978 |
| U. Tulsa | 190 | 10,926 | 9,554 | 10,991 | 11,536 | 2,410 | 1,557 | 2,462 | 3,033 |
| Temple U. | 191 | 8,279 | 8,898 | 8,815 | 11,150 | 4,734 | 4,494 | 4,482 | 5,255 |
| North Carolina Central U. | 192 | 1,773 | 2,074 | 11,000 | 10,915 | 959 | 1,395 | 8,491 | 8,011 |
| U. Maryland, Baltimore County | 193 | 6,668 | 8,140 | 10,631 | 10,580 | 4,657 | 4,079 | 4,065 | 4,650 |
| U. Akron | 194 | 7,714 | 7,558 | 8,851 | 10,504 | 3,985 | 4,632 | 4,733 | 5,678 |
| Oakland U. | 195 | 4,437 | 14,783 | 9,138 | 10,392 | 953 | 1,572 | 1,017 | 1,882 |
| U. Michigan, Dearborn | 196 | 6,223 | 6,703 | 8,414 | 10,273 | 1,907 | 2,030 | 2,599 | 4,855 |
| U.S. Military Academy | 197 | 7,772 | 6,640 | 7,462 | 10,271 | 7,334 | 6,086 | 7,214 | 9,139 |
| Northern Arizona U. | 198 | 6,497 | 4,194 | 5,880 | 9,875 | 4,910 | 2,709 | 3,505 | 6,135 |
| Montana Technological U. | 199 | 5,834 | 4,473 | 6,151 | 9,496 | 4,639 | 3,779 | 5,051 | 8,865 |
| Prairie View A&M U. | 200 | 4,687 | 5,305 | 5,101 | 9,454 | 2,885 | 3,849 | 3,799 | 7,456 |
| Southern Illinois U., Edwardsville | 201 | 1,786 | 8,439 | 6,427 | 9,362 | 208 | 204 | 273 | 536 |
| Tulane U. | 202 | 6,662 | 6,823 | 6,779 | 9,254 | 4,016 | 3,801 | 4,041 | 4,453 |
| U. Miami | 203 | 4,527 | 5,961 | 8,034 | 9,216 | 2,816 | 4,423 | 4,988 | 5,010 |
| South Dakota State U. | 204 | 7,161 | 8,977 | 8,819 | 8,537 | 3,854 | 4,783 | 3,850 | 3,820 |
| San Jose State U. | 205 | 3,664 | 6,968 | 9,496 | 8,237 | 700 | 1,323 | 1,672 | 2,443 |
| California Polytechnic State U., San Luis Obispo | 206 | 5,522 | 8,472 | 9,181 | 7,251 | 2,636 | 5,436 | 4,584 | 1,854 |
| Northern Illinois U. | 207 | 4,134 | 4,132 | 4,565 | 7,223 | 1,856 | 2,039 | 2,193 | 3,504 |
| Brandeis U. | 208 | 2,221 | 5,264 | 5,918 | 6,867 | 824 | 147 | 0 | 119 |
| Indiana U.-Purdue U., Indianapolis | 209 | 6,604 | 6,626 | 9,390 | 6,808 | 4,040 | 4,375 | 6,049 | 4,602 |
| Portland State U. | 210 | 6,668 | 5,582 | 7,108 | 6,803 | 4,021 | 3,752 | 4,290 | 5,260 |
| Lamar U. | 211 | 2,437 | 3,536 | 6,659 | 6,270 | 635 | 445 | 1,363 | 1,754 |
| Marshall U. | 212 | 2,475 | 3,333 | 5,227 | 6,097 | 1,671 | 2,375 | 3,993 | 4,198 |
| California State Polytechnic U., Humboldt | 213 | 5,564 | 6,779 | 5,920 | 6,072 | 208 | 197 | 6 | 134 |
| U. Oregon | 214 | 0 | 4,656 | 5,844 | 6,064 | 0 | 3,729 | 5,004 | 5,319 |
| Medical C. Wisconsin | 215 | 7,560 | 7,427 | 7,828 | 5,926 | 5,221 | 5,046 | 5,735 | 3,681 |
| Florida Institute of Technology | 216 | 5,891 | 5,100 | 5,021 | 5,886 | 2,903 | 2,818 | 3,306 | 3,214 |
| U.S. Naval Academy | 217 | 6,719 | 6,342 | 5,848 | 5,860 | 6,604 | 6,197 | 5,788 | 5,833 |
| Alfred U. | 218 | 2,654 | 3,458 | 4,076 | 5,501 | 933 | 991 | 1,909 | 3,176 |
| Idaho State U. | 219 | 4,411 | 4,752 | 5,435 | 5,458 | 2,022 | 2,430 | 2,640 | 2,342 |
| Saint Louis U. | 220 | 1,999 | 1,559 | 3,187 | 5,214 | 1,183 | 768 | 1,603 | 2,918 |
| Georgia Southern U. | 221 | 4,052 | 3,302 | 4,200 | 5,206 | 804 | 468 | 978 | 1,281 |

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | | | | | | | | | |
|--|------|-------|------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|---|-------|---|-------|---|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 | | | | | | | | |
| Tennessee State U. | 222 | 1,768 | i | 1,278 | 3,026 | 5,176 | 1,755 | i | 1,265 | 2,781 | 3,954 | | | | | | |
| Kennesaw State U. | 223 | 1,858 | | 1,652 | 3,445 | 5,148 | 289 | | 351 | 776 | 1,084 | | | | | | |
| Miami U. | 224 | 4,356 | | 4,474 | 4,562 | 4,806 | 532 | | 843 | 798 | 1,674 | | | | | | |
| Texas A&M U.-Kingsville | 225 | 4,622 | | 4,044 | 5,130 | 4,751 | 2,923 | | 2,819 | 3,690 | 3,176 | | | | | | |
| Southern Illinois U., Carbondale | 226 | 3,120 | | 2,308 | 3,183 | 4,600 | 606 | | 587 | 865 | 817 | | | | | | |
| U. of St. Thomas (MN) | 227 | 3,212 | | 862 | 1,145 | 4,427 | 565 | | 285 | 367 | 1,159 | | | | | | |
| California State U., Long Beach | 228 | 4,574 | | 3,671 | 3,160 | 4,265 | 2,942 | | 2,181 | 1,897 | 2,175 | | | | | | |
| Santa Clara U. | 229 | 1,588 | | 1,741 | 2,617 | 4,165 | 814 | | 1,061 | 1,849 | 1,490 | | | | | | |
| Catholic U. of America | 230 | 3,926 | | 3,076 | 3,217 | 4,134 | 2,680 | | 2,099 | 2,405 | 2,316 | | | | | | |
| Jackson State U. | 231 | 2,236 | | 2,512 | 3,214 | 4,121 | 1,817 | | 1,905 | 2,669 | 3,659 | | | | | | |
| U. Colorado Denver | 232 | 3,695 | | 3,906 | 4,511 | 3,950 | 3,152 | | 3,398 | 3,868 | 3,104 | | | | | | |
| U. North Florida | 233 | 2,119 | | 2,472 | 4,313 | 3,876 | 316 | | 258 | 208 | 201 | | | | | | |
| U. of the District of Columbia | 234 | 3,134 | | 5,725 | 3,342 | 3,627 | 3,134 | | 5,725 | 3,314 | 3,627 | | | | | | |
| East Carolina U. | 235 | 3,069 | | 2,737 | 3,013 | 3,367 | 1,376 | | 2,178 | 1,796 | 1,879 | | | | | | |
| Alabama A&M U. | 236 | 1,787 | i | 1,925 | i | 3,018 | i | 3,344 | i | 1,500 | i | 1,861 | i | 2,462 | i | 2,772 | i |
| U. Denver | 237 | 3,558 | | 3,632 | | 3,612 | | 3,329 | | 1,037 | | 1,180 | | 1,353 | | 1,372 | |
| Wright State U. | 238 | 8,129 | | 6,843 | | 4,819 | | 3,281 | | 6,695 | | 5,696 | | 3,694 | | 2,181 | |
| Purdue U., Northwest | 239 | 2,220 | | 2,606 | | 3,078 | | 3,182 | | 1,032 | | 1,846 | | 2,023 | | 2,172 | |
| Southern U. and A&M C., Baton Rouge | 240 | 2,282 | | 1,938 | | 2,338 | | 3,122 | | 2,185 | | 1,851 | | 2,272 | | 2,964 | |
| Milwaukee School of Engineering | 241 | 3,129 | | 3,480 | | 2,790 | | 3,019 | | 704 | | 904 | | 392 | | 538 | |
| Albany State U. | 242 | 14 | | ne | | 1,177 | | 2,953 | | 14 | | ne | | 936 | | 2,839 | |
| Tuskegee U. | 243 | 5,528 | | 2,955 | | 3,262 | | 2,947 | | 4,213 | | 2,099 | | 2,326 | | 2,101 | |
| California State U., Northridge | 244 | 1,216 | | 2,621 | | 2,935 | | 2,872 | | 1,069 | | 2,377 | | 1,911 | | 1,722 | |
| U. Puerto Rico, Rio Piedras | 245 | 1,152 | | 4,135 | | 2,930 | | 2,564 | | 1,152 | | 3,900 | | 2,580 | | 2,283 | |
| U. New Orleans | 246 | 1,897 | | 2,134 | | 2,509 | | 2,539 | | 204 | | 341 | | 640 | | 635 | |
| CUNY, Advanced Science Research Center | 247 | 2,928 | | 2,083 | | 1,871 | | 2,511 | | 1,845 | | 1,347 | | 1,603 | | 1,608 | |
| California State U., Fresno | 248 | 1,290 | | 1,970 | | 1,450 | | 2,396 | | 474 | | 971 | | 728 | | 1,113 | |
| Pittsburg State U. | 249 | 2,250 | | 2,309 | | 2,461 | | 2,333 | | 314 | | 600 | | 1,088 | | 955 | |
| U. Arkansas, Little Rock | 250 | 809 | | 1,571 | | 2,063 | | 2,281 | | 708 | | 1,366 | | 1,805 | | 2,239 | |
| Kent State U. | 251 | 3,732 | | 1,847 | | 1,904 | | 2,221 | | 830 | | 553 | | 574 | | 442 | |
| California State U., Los Angeles | 252 | 1,486 | | 1,423 | | 2,149 | | 2,200 | | 1,067 | | 1,414 | | 2,149 | | 2,199 | |
| U. Minnesota, Duluth | 253 | 2,392 | | 1,892 | | 1,878 | | 2,163 | | 341 | | 322 | | 331 | | 442 | |
| Virginia State U. | 254 | 1,273 | | 2,260 | | 2,110 | | 2,156 | | 321 | | 1,407 | | 1,249 | | 1,183 | |
| San Francisco State U. | 255 | 2,386 | | 2,423 | | 1,967 | | 2,145 | | 990 | | 1,174 | | 613 | | 690 | |
| Chapman U. | 256 | 348 | | 539 | | 2,041 | | 2,118 | | 8 | | 82 | | 228 | | 332 | |
| U. Texas Medical Branch | 257 | 1,259 | | 1,643 | | 7,397 | | 2,034 | | 425 | | 555 | | 507 | | 552 | |
| Norfolk State U. | 258 | 1,413 | | 1,656 | | 2,218 | | 2,016 | | 1,081 | | 1,597 | | 1,845 | | 1,475 | |

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|--|------|-------|-------|-------|-------|--------------------|-------|-------|-------|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 |
| California State Polytechnic U., Pomona | 259 | 1,516 | 1,759 | 1,673 | 1,982 | 1,040 | 1,298 | 1,213 | 1,404 |
| U. Nebraska, Omaha | 260 | 1,051 | 1,510 | 1,782 | 1,936 | 545 | 988 | 1,021 | 1,029 |
| Youngstown State U. | 261 | 1,794 | 3,058 | 2,553 | 1,924 | 1,261 | 2,525 | 2,208 | 1,782 |
| U. Tennessee, Chattanooga | 262 | 3,578 | 3,823 | 4,138 | 1,913 | 2,574 | 2,622 | 3,049 | 1,446 |
| U. Alaska, Anchorage | 263 | 1,674 | 1,957 | 1,878 | 1,833 | 869 | 1,074 | 885 | 923 |
| SUNY, C. of Environmental Science and Forestry | 264 | 1,085 | 1,644 | 2,095 | 1,825 | 396 | 484 | 1,013 | 1,390 |
| South Carolina State U. | 265 | 652 | 787 | 924 | 1,796 | 464 | 506 | 549 | 1,796 |
| U. Massachusetts, Boston | 266 | 1,266 | 1,218 | 1,298 | 1,773 | 498 | 635 | 705 | 912 |
| Franklin W. Olin C. of Engineering | 267 | 936 | 2,380 | 2,312 | 1,637 | 636 | 805 | 641 | 595 |
| Morehead State U. | 268 | 756 | 2,312 | 2,141 | 1,593 | 756 | 1,799 | 1,392 | 668 |
| Bucknell U. | 269 | 1,494 | 1,589 | 2,064 | 1,574 | 543 | 660 | 656 | 524 |
| West Texas A&M U. | 270 | 1,400 | 1,713 | 1,075 | 1,545 | 673 | 915 | 458 | 565 |
| Pennsylvania State U., Behrend | 271 | 2,395 | 1,799 | 1,892 | 1,528 | 610 | 1,039 | 1,365 | 822 |
| Wake Forest U. | 272 | 1,204 | 1,427 | 1,499 | 1,499 | 544 | 804 | 937 | 967 |
| Marian U., Indianapolis | 273 | ne | ne | 0 | 1,497 | ne | ne | 0 | 0 |
| New School | 274 | 3,793 | 3,301 | 3,565 | 1,495 | 422 | 294 | 81 | 15 |
| California State U., San Marcos | 275 | 1,682 | 527 | 937 | 1,454 | 1,680 | 504 | 904 | 1,399 |
| California State U., Chico | 276 | 1,236 | 1,192 | 1,465 | 1,450 | 768 | 636 | 990 | 444 |
| Minnesota State U., Mankato | 277 | 996 | 871 | 1,166 | 1,380 | 170 | 0 | 196 | 359 |
| Harvey Mudd C. | 278 | 515 | 608 | 774 | 1,338 | 256 | 237 | 394 | 834 |
| Boston C. | 279 | 50 | 438 | 592 | 1,305 | 0 | 0 | 0 | 114 |
| U. South Dakota | 280 | 1,429 | 1,447 | 1,153 | 1,198 | 731 | 859 | 653 | 693 |
| Hampton U. | 281 | 827 | 1,215 | 837 | 1,188 | 827 | 1,215 | 837 | 1,188 |
| California State U., Fullerton | 282 | 661 | 1,062 | 1,355 | 1,138 | 530 | 639 | 622 | 431 |
| U. Hartford | 283 | 963 | 752 | 1,067 | 1,095 | 585 | 694 | 986 | 991 |
| Oregon Institute of Technology | 284 | 761 | 902 | 1,104 | 1,073 | 71 | 96 | 388 | 385 |
| U. Colorado Colorado Springs | 285 | 902 | 1,883 | 1,144 | 1,070 | 488 | 1,134 | 762 | 869 |
| U. North Carolina, Wilmington | 286 | 1,064 | 537 | 1,317 | 1,027 | 297 | 182 | 265 | 172 |
| Tarleton State U. | 287 | 166 | 685 | 857 | 1,024 | 0 | 0 | 0 | 32 |
| Purdue U., Fort Wayne | 288 | 465 | 169 | 192 | 1,017 | 125 | 92 | 17 | 27 |
| Rhode Island School of Design | 289 | 187 | ne | ne | 1,013 | 112 | ne | ne | 140 |
| U. West Florida | 290 | 709 | 450 | 1,322 | 924 | 265 | 14 | 647 | 383 |
| Lawrence Technological U. | 291 | 555 | 726 | 816 | 912 | 141 | 382 | 545 | 575 |
| C. Charleston | 292 | 72 | 158 | 583 | 911 | 72 | 158 | 524 | 390 |
| U. Texas, Tyler | 293 | 537 | 542 | 812 | 887 | 115 | 212 | 304 | 682 |
| Pennsylvania State U., Harrisburg | 294 | 386 | 160 | 272 | 877 | 219 | 74 | 126 | 344 |
| Pennsylvania State U., Altoona | 295 | ne | ne | 425 | 861 | ne | ne | 297 | 342 |

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | | | |
|---|------|---------|---------|---------|------|--------------------|--------|--------|------|-----|-----|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 | | |
| SUNY, Cobleskill | 296 | ne | 1,211 | 2,301 | 856 | ne | 379 | 469 | 512 | | |
| U. of the Virgin Islands | 297 | 832 | 790 | 790 | 792 | 809 | 790 | 790 | 792 | | |
| Western Illinois U. | 298 | 780 | 1,983 | 717 | 781 | i | 780 | 1,983 | 717 | 781 | i |
| Florida Polytechnic U. | 299 | 829 | 1,310 | 1,404 | 773 | 312 | 493 | 530 | 396 | | |
| Texas A&M International U. | 300 | 241 | 127 | 175 | 768 | 65 | 66 | 106 | 477 | | |
| Utah Valley U. | 301 | ne | 310 | 668 | 764 | ne | 180 | 435 | 275 | | |
| CUNY, New York City C. of Technology | 302 | 103 | 50 | 806 | 762 | 93 | 33 | 782 | 662 | | |
| U. Tennessee, Health Science Center | 303 | 687 | 640 | 683 | 752 | 0 | 0 | 0 | 0 | | |
| Manhattan C. | 304 | 1,122 | 899 | 447 | 750 | 68 | 58 | 83 | 282 | | |
| Western New England U. | 305 | ne | 1,464 | 686 | 739 | i | ne | 395 | 344 | 370 | i |
| C. New Jersey | 306 | 283 | 265 | 278 | 729 | 133 | 133 | 193 | 446 | | |
| New York Institute of Technology | 307 | 775 | 1,181 | 844 | 721 | 666 | 1,082 | 742 | 564 | | |
| U. Colorado Anschutz Medical Campus | 308 | 1,204 | 957 | 842 | 707 | 1,189 | 730 | 707 | 484 | | |
| James Madison U. | 309 | 174 | 808 | 576 | 706 | 54 | 161 | 209 | 354 | | |
| U. North Carolina, general administration | 310 | 2,068 | 2,232 | ne | 700 | 306 | 268 | ne | 0 | | |
| Lafayette C. | 311 | 201 | 384 | 581 | 688 | 84 | 222 | 403 | 463 | | |
| U. New Haven | 312 | 319 | 329 | 120 | 684 | 81 | 64 | 23 | 452 | | |
| U. Detroit Mercy | 313 | 114 | 560 | 1,010 | 682 | 64 | 510 | 804 | 524 | | |
| Western Kentucky U. | 314 | 604 | 510 | 615 | 674 | 82 | 135 | 109 | 93 | | |
| Arkansas State U., Jonesboro | 315 | 384 | 508 | 660 | 668 | 248 | 367 | 481 | 268 | | |
| U. Missouri, Saint Louis | 316 | 0 | 0 | 38 | 643 | 0 | 0 | 0 | 328 | | |
| U. South Carolina Upstate | 317 | ne | ne | ne | 641 | ne | ne | ne | 445 | | |
| Christopher Newport U. | 318 | 656 | 437 | 541 | 628 | 656 | 437 | 541 | 628 | | |
| Western Washington U. | 319 | 650 | 570 | 621 | 614 | 271 | 227 | 421 | 326 | | |
| SUNY, Polytechnic Institute | 320 | 462,562 | 411,929 | 282,110 | 612 | 24,019 | 30,702 | 32,487 | 314 | | |
| Savannah State U. | 321 | 588 | 609 | 502 | 610 | 588 | 609 | 502 | 610 | | |
| U. Southern Maine | 322 | 159 | 228 | 301 | 600 | 32 | 72 | 97 | 118 | | |
| California State U., Bakersfield | 323 | 839 | 440 | 711 | 586 | 751 | 302 | 388 | 441 | | |
| Robert Morris U. | 324 | ne | 555 | i | 612 | 581 | ne | 448 | i | 492 | 495 |
| Ferris State U. | 325 | ne | ne | 0 | 579 | ne | ne | 0 | 20 | | |
| Union C., Schenectady | 326 | 722 | 446 | 519 | 576 | 595 | 359 | 272 | 345 | | |
| Delaware State U. | 327 | 308 | 207 | 419 | 567 | 198 | 137 | 176 | 512 | | |
| U. Wisconsin-Oshkosh | 328 | 158 | 294 | 157 | 565 | 73 | 252 | 142 | 138 | | |
| Fairfield U. | 329 | 109 | ne | 474 | 552 | 2 | ne | 34 | 45 | | |
| U. San Diego | 330 | 980 | 820 | 608 | 548 | 692 | 518 | 343 | 271 | | |
| Montclair State U. | 331 | 104 | 1,129 | 402 | 538 | 5 | 49 | 360 | 431 | | |
| Swarthmore C. | 332 | 174 | 215 | 338 | 528 | 50 | 51 | 1 | 33 | | |

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|------------------------------------|------|-------|---------|---------|-------|--------------------|-------|---------|-------|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 |
| Liberty U. | 333 | 208 | ne | 588 | 522 | 75 | ne | 15 | 281 |
| Pace U. | 334 | 706 | 529 | 684 | 498 | 626 | 529 | 649 | 480 |
| CUNY, Graduate Center | 335 | 6 | 0 | 206 | 491 | 0 | 0 | 206 | 491 |
| Citadel Military C. South Carolina | 336 | 250 | 363 | 491 | 488 | 136 | 222 | 416 | 397 |
| Western Carolina U. | 337 | 305 | 363 | 395 | 478 | 237 | 134 | 65 | 233 |
| Fort Lewis C. | 338 | 605 | 623 | 628 | 475 | 563 | 592 | 569 | 424 |
| U. Wisconsin-Green Bay | 339 | 327 | i 465 | i 484 | i 467 | i 167 | i 199 | i 232 | i 233 |
| Weber State U. | 340 | ne | ne | ne | 449 | ne | ne | ne | 217 |
| Hofstra U. | 341 | 528 | 521 | 642 | 431 | 478 | 352 | 376 | 213 |
| Appalachian State U. | 342 | 0 | 237 | 266 | 430 | 0 | 42 | 0 | 0 |
| U. Houston-Clear Lake | 343 | 0 | 21 | 184 | 423 | 0 | 13 | 100 | 269 |
| Smith C. | 344 | 688 | 599 | 567 | 417 | 571 | 426 | 421 | 132 |
| Central Michigan U. | 345 | 412 | 499 | 377 | 414 | 95 | 48 | 187 | 232 |
| Alcorn State U. | 346 | 181 | i 1,159 | i 1,349 | 408 | 178 | i 873 | i 1,033 | 393 |
| Hope C. | 347 | 277 | 430 | 493 | 403 | 232 | 374 | 412 | 364 |
| Coastal Carolina U. | 348 | 68 | 175 | 275 | 393 | 68 | 159 | 194 | 231 |
| Long Island U. | 349 | 0 | 0 | 0 | 378 | 0 | 0 | 0 | 0 |
| Loyola Marymount U. | 349 | 234 | 57 | 0 | 378 | 0 | 0 | 0 | 92 |
| Roger Williams U. | 351 | 32 | 221 | 202 | 367 | 17 | 44 | 117 | 223 |
| CUNY, Hunter C. | 352 | 0 | 191 | 0 | 357 | 0 | 191 | 0 | 357 |
| U. Washington, Tacoma | 353 | 319 | 250 | 328 | 352 | 314 | 250 | 231 | 262 |
| Seattle U. | 354 | 62 | 137 | 282 | 332 | 10 | 48 | 85 | 176 |
| Trinity U. | 355 | 47 | 69 | 137 | 319 | 0 | 7 | 81 | 192 |
| Duquesne U. | 356 | 102 | 66 | 187 | 308 | 0 | 21 | 52 | 220 |
| U. Texas of the Permian Basin | 357 | 792 | 797 | 416 | 292 | 270 | 509 | 226 | 113 |
| Northwest Indian C. | 358 | 196 | i 227 | i 243 | i 274 | i 196 | i 227 | i 243 | i 274 |
| Grand Valley State U. | 359 | 118 | 117 | 239 | 271 | i 0 | 0 | 0 | 0 |
| Xavier U. Louisiana | 360 | 57 | 0 | 135 | 268 | 57 | 0 | 135 | 260 |
| East Tennessee State U. | 361 | 138 | i 27 | i 87 | 264 | 101 | 0 | 0 | 0 |
| Marymount U. | 362 | 0 | 3 | 111 | 257 | 0 | 0 | 50 | 182 |
| Central State U. | 363 | 211 | 314 | 155 | 234 | 211 | 314 | 155 | 234 |
| Benedict C. | 364 | ne | ne | 1,428 | 218 | ne | ne | 815 | 203 |
| U. Maryland, Eastern Shore | 365 | 144 | 59 | 63 | 213 | 125 | 59 | 63 | 201 |
| U. New England | 366 | 0 | 0 | 0 | 206 | 0 | 0 | 0 | 206 |
| Middle Tennessee State U. | 367 | 592 | 889 | 196 | 201 | 100 | 288 | 141 | 138 |
| U. Washington, Bothell | 368 | 304 | 387 | 530 | 198 | 304 | 387 | 343 | 153 |
| SUNY, Oswego | 369 | 43 | 0 | 150 | 192 | 9 | 0 | 123 | 118 |

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | | | | | |
|-------------------------------------|------|-------|------|-------|------|--------------------|------|------|------|-----|----|----|----|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 | | | | |
| Clark Atlanta U. | 370 | 36 | 41 | 114 | 174 | 11 | 41 | 114 | 142 | | | | |
| Eastern Washington U. | 371 | 0 | 0 | 71 | 170 | 0 | 0 | 71 | 165 | | | | |
| Bentley U. | 372 | ne | 0 | 72 | 151 | ne | 0 | 72 | 151 | | | | |
| California State U., East Bay | 373 | 306 | 133 | 155 | 146 | 0 | 0 | 0 | 0 | | | | |
| U. Michigan, Flint | 374 | 225 | ne | ne | 142 | 0 | ne | ne | 0 | | | | |
| Florida Gulf Coast U. | 375 | 145 | 222 | 221 | 139 | 0 | 84 | 26 | 14 | | | | |
| High Point U. | 376 | ne | ne | ne | 138 | i | ne | ne | 97 | i | | | |
| Keck Graduate Institute | 376 | 0 | i | 0 | 129 | 138 | i | 0 | 127 | 127 | | | |
| Langston U. | 378 | 0 | 0 | 0 | 127 | 0 | 0 | 0 | 106 | | | | |
| Texas Christian U. | 379 | 36 | 88 | 95 | 126 | 8 | 84 | 59 | 8 | | | | |
| Texas A&M U.-Commerce | 380 | 64 | 48 | 113 | 123 | 0 | 0 | 0 | 0 | | | | |
| Trinity C., Hartford | 381 | 45 | 42 | 71 | 121 | 1 | 13 | 2 | 0 | | | | |
| St. Edward's U. | 382 | 0 | 0 | 0 | 117 | 0 | 0 | 0 | 0 | | | | |
| Lipscomb U. | 383 | 203 | ne | 153 | 113 | 203 | ne | 94 | 48 | | | | |
| Eastern Kentucky U. | 384 | 58 | ne | 69 | 112 | 56 | ne | 69 | 30 | | | | |
| U. North Carolina, Asheville | 385 | 0 | 0 | 2 | 106 | 0 | 0 | 2 | 0 | | | | |
| United Tribes Technical C. | 385 | ne | ne | 444 | 106 | ne | ne | 410 | 100 | | | | |
| Dillard U. | 387 | 0 | 7 | 85 | 101 | 0 | 7 | 85 | 101 | | | | |
| Calvin U. | 388 | 107 | i | 129 | i | 134 | i | 99 | 34 | i | 33 | 64 | 69 |
| Texas Southern U. | 389 | 27 | 24 | 75 | 98 | 27 | 7 | 69 | 96 | | | | |
| California State U., San Bernardino | 390 | 1,382 | 658 | 1,108 | 95 | 0 | 0 | 0 | 0 | | | | |
| Sam Houston State U. | 391 | 36 | 253 | 109 | 93 | 0 | 167 | 80 | 49 | | | | |
| Southern Utah U. | 392 | ne | ne | ne | 90 | ne | ne | ne | 42 | | | | |
| U. of the Incarnate Word | 393 | 186 | 339 | 289 | 88 | 139 | 331 | 235 | 51 | | | | |
| Bowling Green State U. | 394 | 57 | 80 | 189 | 86 | 35 | 42 | 114 | 59 | | | | |
| Azusa Pacific U. | 395 | 5 | 10 | 21 | 84 | 0 | 0 | 7 | 38 | | | | |
| Southeastern Louisiana U. | 396 | 16 | 24 | 140 | 81 | 8 | 6 | 49 | 33 | | | | |
| U. Houston-Downtown | 396 | 189 | 71 | 79 | 81 | 189 | 71 | 79 | 66 | | | | |
| Virginia Military Institute | 396 | ne | 119 | 147 | 81 | ne | 51 | 62 | 45 | | | | |
| DePaul U. | 399 | 0 | 76 | 106 | 80 | 0 | 76 | 106 | 64 | | | | |
| Valparaiso U. | 400 | ne | ne | ne | 79 | ne | ne | ne | 47 | | | | |
| Midwestern State U. | 401 | ne | ne | ne | 78 | ne | ne | ne | 0 | | | | |
| Sonoma State U. | 402 | 1 | 17 | 67 | 74 | 0 | 0 | 43 | 71 | | | | |
| U. Central Arkansas | 402 | 0 | 0 | 221 | 74 | 0 | 0 | 221 | 74 | | | | |
| Abilene Christian U. | 404 | 45 | 29 | 15 | 68 | 45 | 29 | 15 | 0 | | | | |
| Sacred Heart U. | 405 | 0 | ne | 0 | 62 | 0 | ne | 0 | 0 | | | | |
| Ball State U. | 406 | 0 | 0 | 32 | 58 | 0 | 0 | 0 | 0 | | | | |

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|--------------------------------------|------|-------|------|------|------|--------------------|------|------|------|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 |
| Indiana State U. | 406 | 2 | 87 | 59 | 58 | 0 | 70 | 34 | 41 |
| Indiana U. Pennsylvania | 408 | 0 | 0 | 0 | 56 | 0 | 0 | 0 | 0 |
| Elon U. | 409 | 29 | 18 | 30 | 53 | 13 | 0 | 0 | 0 |
| Providence C. | 409 | 17 | ne | 0 | 53 | 17 | ne | 0 | 53 |
| U. Wisconsin-Stevens Point | 411 | 241 | 111 | 82 | 51 | 132 | 0 | 61 | 8 |
| West Chester U. Pennsylvania | 411 | 0 | 0 | 51 | 51 | 0 | 0 | 0 | 0 |
| U. Central Oklahoma | 413 | 80 | 93 | 50 | 50 | 24 | 31 | 0 | 0 |
| Hawaii Pacific U. | 414 | 13 | 14 | 0 | 47 | 13 | 14 | 0 | 47 |
| California State U., Monterey Bay | 415 | 0 | 0 | 23 | 45 | 0 | 0 | 0 | 0 |
| Northern Michigan U. | 415 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 34 |
| St. Cloud State U. | 417 | 31 | 30 | 54 | 42 | 0 | 0 | 0 | 0 |
| U. Alaska, Southeast | 418 | 4 | 0 | 92 | 41 | 0 | 0 | 21 | 0 |
| Merrimack C. | 419 | ne | ne | 16 | 39 | ne | ne | 11 | 32 |
| Troy U. | 420 | 0 | 56 | 47 | 38 | 0 | 56 | 47 | 37 |
| Wellesley C. | 421 | 345 | 395 | 50 | 33 | 345 | 395 | 50 | 33 |
| Clafin U. | 422 | 65 | 63 | 63 | 32 | 65 | 63 | 63 | 32 |
| Carthage C. | 423 | ne | ne | ne | 28 | ne | ne | ne | 28 |
| U. Wisconsin-Eau Claire | 424 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 |
| Loyola U., Chicago | 425 | 0 | 95 | 151 | 23 | 0 | 0 | 0 | 0 |
| CUNY, C. Staten Island | 426 | 274 | 0 | 288 | 19 | 235 | 0 | 286 | 0 |
| Eastern Michigan U. | 427 | 427 | 407 | 534 | 18 | 81 | 76 | 83 | 18 |
| U. North Georgia | 427 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 18 |
| Lake Superior State U. | 429 | ne | 41 | 43 | 11 | ne | 0 | 25 | 8 |
| Towson U. | 429 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 3 |
| U. of the Pacific | 431 | 228 | 135 | 128 | 10 | 228 | 135 | 21 | 9 |
| Colorado State U., Pueblo | 432 | 64 | 0 | 8 | 9 | 51 | 0 | 0 | 0 |
| Seattle Pacific U. | 432 | ne | ne | ne | 9 | ne | ne | ne | 0 |
| U. San Francisco | 432 | 3 | 3 | 4 | 9 | 0 | 0 | 0 | 0 |
| Andrews U. | 435 | 50 | ne | 48 | 8 | 50 | ne | 42 | 0 |
| Central Washington U. | 436 | 72 | 32 | 56 | 6 | 45 | 25 | 39 | 0 |
| Southern Connecticut State U. | 436 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Des Moines U. | 438 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 |
| U. Wisconsin-River Falls | 438 | 18 | ne | 42 | 5 | 18 | ne | 27 | 0 |
| U. Wisconsin-Superior | 440 | 207 | 297 | 0 | 4 | 32 | 71 | 0 | 4 |
| Austin Peay State U. | 441 | 0 | 0 | 9 | 3 | 0 | 0 | 8 | 3 |
| California State U., Channel Islands | 441 | 79 | 4 | 0 | 3 | 79 | 1 | 0 | 0 |
| Carleton C. | 443 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

| Institution | Rank | Total | | | | Federally financed | | | |
|---------------------------------|------|--------|--------|-------|------|--------------------|--------|-------|------|
| | | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 |
| Kean U. | 443 | 0 | 32 | 1 | 1 | 0 | 0 | 0 | 0 |
| New Mexico Highlands U. | 443 | 0 i | 0 i | 0 | 1 | 0 i | 0 i | 0 | 0 |
| Salisbury U. | 443 | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 0 |
| U. Scranton | 443 | ne | ne | 4 | 1 | ne | ne | 0 | 0 |
| All other surveyed institutions | - | 72,088 | 74,197 | 2,347 | 0 | 33,536 | 34,535 | 1,078 | 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 \$1,552,813 thousand imputed for total and \$1,513,040 thousand reported for federally financed R&D expenditures in engineering in FY 2024. 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 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 Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^d The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2024 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 5.

Source(s):

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