

Table 21
Higher education R&D expenditures, ranked by FY 2022 R&D expenditures: FYs 2010–22

| (Dollars in thousands) | | | | | | | | | | | | | | | | | |
|---|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------------|---------------|-----------------|
| Institution | Rank | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | Difference from WSU | % Change - Yr | % Change -10 Yr |
| All institutions | | 61,286,610 | 65,274,393 | 65,729,007 | 66,977,566 | 67,161,428 | 68,519,962 | 71,736,671 | 75,148,301 | 79,024,262 | 83,488,120 | 86,302,262 | 89,694,837 | 97,680,528 | | 8.9 | 48.6 |
| Johns Hopkins U* | 1 | 2,004,482 | 2,145,308 | 2,106,185 | 2,168,568 | 2,242,478 | 2,305,679 | 2,431,180 | 2,562,307 | 2,661,033 | 2,917,436 | 3,110,494 | 3,181,385 | 3,420,312 | | 7.5 | 62.4 |
| U. California, San Francisco | 2 | 935,509 | 995,226 | 1,032,673 | 1,042,841 | 1,084,031 | 1,126,620 | 1,294,261 | 1,409,398 | 1,595,732 | 1,595,098 | 1,651,073 | 1,710,036 | 1,805,956 | | 5.6 | 74.9 |
| U. Pennsylvania | 3 | 836,322 | 886,036 | 847,077 | 828,422 | 828,350 | 864,068 | 1,296,429 | 1,374,293 | 1,441,931 | 1,506,285 | 1,579,364 | 1,631,950 | 1,791,311 | | 9.8 | 111.5 |
| U. Michigan, Ann Arbor | 4 | 1,184,445 | 1,279,123 | 1,322,711 | 1,375,117 | 1,349,262 | 1,369,278 | 1,436,448 | 1,530,139 | 1,600,869 | 1,675,805 | 1,673,862 | 1,639,645 | 1,770,708 | | 8.0 | 33.9 |
| U. Washington, Seattle | 5 | 1,022,740 | 1,148,533 | 1,109,008 | 1,192,513 | 1,176,340 | 1,180,563 | 1,277,679 | 1,348,220 | 1,413,902 | 1,425,601 | 1,495,902 | 1,488,645 | 1,559,708 | | 4.8 | 40.6 |
| U. California, Los Angeles | 6 | 936,995 | 982,357 | 1,003,375 | 966,659 | 948,197 | 1,021,227 | 1,037,528 | 1,076,917 | 1,181,110 | 1,306,376 | 1,392,941 | 1,454,880 | 1,536,197 | | 5.6 | 53.1 |
| U. California, San Diego | 7 | 943,219 | 1,009,378 | 1,073,864 | 1,075,554 | 1,067,388 | 1,101,466 | 1,087,117 | 1,133,454 | 1,265,196 | 1,353,763 | 1,403,735 | 1,425,499 | 1,533,357 | | 7.6 | 42.8 |
| U. Wisconsin-Madison | 8 | 1,029,295 | 1,111,642 | 1,169,779 | 1,123,501 | 1,108,564 | 1,069,077 | 1,157,680 | 1,193,413 | 1,205,518 | 1,297,331 | 1,363,931 | 1,380,075 | 1,523,513 | | 10.4 | 30.2 |
| Duke U. | 9 | 883,289 | 1,022,207 | 1,009,911 | 992,821 | 1,036,813 | 1,036,698 | 1,055,778 | 1,126,924 | 1,167,611 | 1,226,517 | 1,196,638 | 1,237,686 | 1,390,538 | | 12.3 | 37.7 |
| Stanford U. | 10 | 939,839 | 907,971 | 903,238 | 945,450 | 959,247 | 1,022,551 | 1,066,269 | 1,109,708 | 1,157,597 | 1,204,116 | 1,203,950 | 1,274,483 | 1,384,555 | | 8.6 | 53.3 |
| Ohio State U. | 11 | 755,194 | 832,126 | 766,513 | 793,373 | 815,075 | 817,881 | 818,464 | 864,327 | 875,014 | 929,250 | 966,260 | 1,236,111 | 1,363,388 | | 10.3 | 77.9 |
| U. North Carolina, Chapel Hill | 12 | 755,284 | 869,174 | 884,791 | 973,007 | 989,766 | 966,781 | 1,045,338 | 1,102,063 | 1,136,158 | 1,153,773 | 1,159,725 | 1,205,983 | 1,381,028 | | 12.9 | 53.8 |
| Harvard U. | 13 | 583,361 | 649,774 | 799,432 | 1,012,766 | 933,975 | 1,013,753 | 1,077,253 | 1,123,160 | 1,173,371 | 1,239,736 | 1,239,983 | 1,254,008 | 1,308,458 | | 4.3 | 63.7 |
| Cornell U. | 14 | 749,721 | 781,651 | 802,387 | 845,184 | 883,292 | 954,412 | 974,199 | 984,478 | 1,071,621 | 1,144,534 | 1,190,063 | 1,183,524 | 1,300,357 | | 9.9 | 62.1 |
| New York U. | 15 | 365,944 | 430,752 | 458,645 | 471,909 | 523,623 | 602,041 | 809,739 | 917,744 | 887,558 | 934,720 | 947,203 | 1,063,704 | 1,276,038 | | 20.0 | 178.2 |
| U. Pittsburgh, Pittsburgh | 16 | 822,491 | 899,386 | 866,638 | 872,736 | 856,806 | 861,205 | 889,793 | 939,706 | 1,006,513 | 1,080,951 | 1,105,532 | 1,135,416 | 1,251,998 | | 10.3 | 44.5 |
| Georgia Institute of Technology | 17 | 815,833 | 855,375 | 888,905 | 730,488 | 725,550 | 765,370 | 790,706 | 804,301 | 891,728 | 960,167 | 1,048,988 | 1,114,481 | 1,231,485 | | 10.5 | 78.4 |
| Columbia U. in the City of New York | 18 | 807,235 | 878,900 | 889,487 | 889,188 | 890,642 | 868,159 | 837,312 | 893,062 | 947,504 | 1,003,615 | 1,032,909 | 1,098,570 | 1,230,924 | | 12.0 | 38.4 |
| U. Maryland* | 19 | na | 1,096,600 | 1,103,062 | 1,142,264 | 1,228,550 | 860,154,000 | 7.8 | 7.8 |
| U. Minnesota, Twin Cities | 20 | 786,074 | 847,419 | 826,173 | 858,378 | 876,870 | 880,618 | 910,181 | 921,681 | 954,683 | 1,013,112 | 1,042,382 | 1,072,961 | 1,202,084 | | 12.0 | 45.5 |
| Yale U. | 21 | 623,510 | 656,967 | 656,555 | 788,784 | 772,840 | 803,004 | 881,765 | 951,084 | 990,399 | 1,072,309 | 1,094,135 | 1,165,148 | 1,191,201 | | 2.2 | 81.4 |
| U. Texas M. D. Anderson Cancer Center | 22 | 599,529 | 663,279 | 685,814 | 718,096 | 794,980 | 833,406 | 852,095 | 888,029 | 929,710 | 969,496 | 1,051,297 | 1,124,971 | 1,182,536 | | 9.1 | 72.4 |
| Texas A&M U., College Station and Health Science Center | 23 | 689,624 | 705,720 | 693,421 | 820,015 | 854,214 | 866,678 | 892,718 | 905,474 | 922,178 | 952,156 | 1,130,803 | 1,147,720 | 1,152,866 | | 0.4 | 66.2 |
| Vanderbilt U. and Vanderbilt U. Medical Center | 24 | 504,959 | 566,031 | 560,466 | 571,603 | 683,890 | 647,816 | 640,842 | 712,036 | 738,220 | 776,937 | 824,803 | 1,019,273 | 1,086,233 | | 6.6 | 93.8 |
| U. Florida | 25 | 681,548 | 739,931 | 696,985 | 695,063 | 708,526 | 739,522 | 791,294 | 801,418 | 865,093 | 928,639 | 942,223 | 959,965 | 1,085,834 | | 13.1 | 55.8 |
| Washington U., Saint Louis | 26 | 695,974 | 725,039 | 706,410 | 684,847 | 664,752 | 694,069 | 741,115 | 754,462 | 816,139 | 887,088 | 920,215 | 989,214 | 1,047,098 | | 5.9 | 48.2 |
| U. Southern California | 27 | 592,791 | 603,294 | 623,544 | 645,636 | 687,222 | 691,031 | 702,866 | 764,322 | 891,625 | 909,683 | 941,198 | 955,565 | 1,039,905 | | 8.8 | 66.8 |
| Pennsylvania State U., University Park and Hershey Medical Center | 28 | 770,449 | 794,846 | 797,679 | 837,880 | 800,773 | 791,031 | 825,561 | 854,815 | 908,708 | 949,679 | 991,923 | 970,544 | 1,019,940 | | 5.1 | 27.9 |
| Northwestern U. | 29 | 575,078 | 618,980 | 631,078 | 639,781 | 645,333 | 656,167 | 713,491 | 751,809 | 805,672 | 857,089 | 874,671 | 913,178 | 1,000,695 | | 9.6 | 58.6 |
| Massachusetts Institute of Technology | 30 | 677,138 | 723,610 | 824,130 | 900,524 | 908,017 | 930,719 | 946,159 | 952,017 | 964,336 | 1,009,466 | 987,968 | 949,076 | 989,166 | | 4.2 | 20.0 |
| U. California, Berkeley | 31 | 694,049 | 707,945 | 730,348 | 727,002 | 744,343 | 788,505 | 774,255 | 770,822 | 796,505 | 802,931 | 840,000 | 846,872 | 981,035 | | 15.8 | 34.3 |
| Emory U. | 32 | 529,453 | 547,316 | 565,766 | 575,943 | 558,600 | 585,210 | 614,527 | 664,888 | 712,417 | 794,928 | 806,792 | 852,922 | 958,281 | | 12.6 | 69.4 |
| Icahn School of Medicine at Mount Sinai | 33 | 370,666 | 405,527 | 400,680 | 428,654 | 463,429 | 508,353 | 540,296 | 575,448 | 640,141 | 722,241 | 747,014 | 820,260 | 893,968 | | 9.0 | 123.1 |
| U. California, Davis | 34 | 679,915 | 707,896 | 713,292 | 725,734 | 711,721 | 721,077 | 741,892 | 738,347 | 788,832 | 804,282 | 816,693 | 817,409 | 883,807 | | 8.1 | 23.9 |
| U. Texas, Austin | 35 | 589,502 | 632,171 | 621,538 | 634,132 | 585,251 | 604,376 | 621,692 | 652,187 | 679,781 | 696,111 | 797,199 | 779,348 | 845,896 | | 8.5 | 36.1 |
| Baylor C. of Medicine | 36 | 447,874 | 466,061 | 474,700 | 508,799 | 496,314 | 520,220 | 572,527 | 604,952 | 623,396 | 651,920 | 685,641 | 716,976 | 827,005 | | 15.3 | 74.2 |
| U. Arizona | 37 | 586,647 | 610,565 | 625,365 | 629,466 | 588,088 | 606,219 | 604,464 | 622,200 | 687,066 | 734,270 | 760,975 | 770,031 | 824,340 | | 7.1 | 31.8 |
| Arizona State U. | 38 | 329,345 | 355,215 | 385,959 | 405,154 | 426,651 | 458,412 | 518,239 | 545,016 | 617,717 | 639,637 | 673,357 | 677,303 | 797,224 | | 17.7 | 106.6 |
| U. Illinois, Urbana-Champaign | 39 | 515,133 | 545,669 | 583,754 | 743,487 | 621,733 | 639,817 | 625,180 | 642,084 | 652,709 | 677,523 | 689,176 | 731,268 | 765,909 | | 4.7 | 31.2 |
| Michigan State U. | 40 | 431,373 | 454,248 | 507,061 | 515,707 | 526,906 | 558,248 | 613,365 | 694,917 | 715,290 | 725,708 | 713,197 | 710,178 | 759,229 | | 6.9 | 49.7 |
| Purdue U., West Lafayette | 41 | 548,980 | 578,231 | 602,501 | 595,739 | 564,923 | 558,611 | 606,302 | 622,813 | 631,574 | 663,927 | 687,144 | 679,482 | 754,627 | 386,231,000 | 11.1 | 25.2 |
| Indiana U., Bloomington | 42 | 177,520 | 184,096 | 184,486 | 197,897 | 206,039 | 485,076 | 508,766 | 504,421 | 566,907 | 668,157 | 710,850 | 695,258 | 751,309 | | 8.1 | 307.2 |
| Boston U. | 43 | 352,817 | 359,916 | 334,496 | 368,281 | 367,328 | 388,336 | 395,921 | 421,360 | 484,205 | 534,205 | 583,267 | 652,066 | 725,402 | | 11.2 | 116.9 |
| U. Texas Southwestern Medical Center | 44 | 419,220 | 431,883 | 435,085 | 440,620 | 434,627 | 438,824 | 442,666 | 461,797 | 474,260 | 496,697 | 595,939 | 632,134 | 719,002 | | 13.7 | 65.3 |
| U. Alabama, Birmingham | 45 | 489,845 | 503,698 | 453,779 | 440,796 | 428,563 | 516,229 | 537,825 | 561,851 | 588,207 | 607,863 | 618,226 | 644,330 | 713,480 | | 10.7 | 57.2 |
| Rutgers, State U. New Jersey, New Brunswick | 46 | 428,432 | 432,306 | 434,901 | 493,320 | 644,116 | 628,613 | 630,212 | 681,719 | 706,282 | 657,249 | 688,077 | 643,955 | 712,231 | | 10.6 | 63.8 |
| U. Utah | 47 | 379,200 | 414,316 | 430,056 | 494,058 | 486,140 | 518,928 | 350,212 | 380,295 | 452,306 | 601,133 | 607,061 | 624,733 | 670,219 | | 7.3 | 55.8 |
| U. Virginia, Charlottesville | 48 | 276,308 | 398,096 | 383,559 | 385,828 | 358,576 | 373,218 | 397,458 | 469,682 | 551,761 | 613,938 | 652,002 | 611,313 | 662,658 | | 8.4 | 72.9 |
| U. Cincinnati | 49 | 411,269 | 448,936 | 433,668 | 436,642 | 422,873 | 436,028 | 430,579 | 455,250 | 480,095 | 529,796 | 530,138 | 551,826 | 615,070 | | 11.5 | 41.8 |
| U. Colorado Boulder | 50 | 349,449 | 390,677 | 392,004 | 385,849 | 379,475 | 420,775 | 453,123 | 499,389 | 514,573 | 513,822 | 525,674 | 547,724 | 611,380 | | 11.6 | 56.0 |
| U. Colorado Anschutz Medical Campus* | 51 | na | 582,855 | | 6.1 | 58.6 |
| U. Iowa | 52 | 444,034 | 443,893 | 446,429 | 435,377 | 449,147 | 443,218 | 473,362 | 494,280 | 511,973 | 508,353 | 538,583 | 553,876 | 594,215 | | 7.3 | 33.1 |
| Virginia Polytechnic Institute and State U. | 53 | 398,169 | 450,058 | 454,417 | 496,169 | 513,149 | 504,282 | 521,773 | 522,425 | | | | | | | | |