

TABLE 3

State government expenditures for R&D, by state: FYs 2006–21

(Dollars)

| State | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|----------------------------|---------------|---------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| United States ^a | 1,059,104,585 | 1,161,477,543 | NA | 1,616,483,243 | 1,756,297,891 | 1,990,338,324 | 2,042,260,292 | 2,028,219,263 | 1,905,585,762 | 2,265,232,945 | 2,314,376,833 | 2,467,761,297 | 2,530,723,104 | 2,412,042,977 | 2,444,115,617 | 2,471,471,226 |
| Alabama | 7,269,319 | 9,065,725 | NA | 12,929,167 | 15,113,917 | 19,684,063 | 17,352,984 | 13,292,741 | 18,532,534 | 24,486,963 | 24,798,503 | 25,768,709 | 21,652,816 | 19,763,230 | 25,695,555 | 29,812,345 |
| Alaska | 10,019,060 | 9,526,100 | NA | 7,741,467 | 9,274,800 | 11,349,400 | 5,467,944 | 6,689,384 | 12,031,675 | 11,258,203 | 10,072,650 | 9,198,095 | 10,811,808 | 12,502,109 | 15,193,507 | 19,671,388 |
| Arizona | 37,151,471 | 20,442,635 | NA | 9,363,943 | 17,682,315 | 18,626,577 | 22,809,895 | 27,810,970 | 18,820,149 | 14,942,124 | 15,679,948 | 14,008,740 | 12,937,292 | 17,332,044 | 16,010,502 | 15,011,508 |
| Arkansas | 4,869,648 | 7,658,199 | NA | 11,465,214 | 14,446,084 | 14,705,327 | 15,518,374 | 16,518,947 | 14,994,903 | 16,642,711 | 17,242,823 | 15,891,579 | 16,325,049 | 21,098,863 | 19,921,168 | 9,908,767 |
| California | 145,880,736 | 120,641,324 | NA | 299,929,949 | 328,982,383 | 407,616,001 | 401,522,758 | 346,942,036 | 356,158,885 | 568,971,595 | 547,188,835 | 485,647,081 | 633,060,621 | 526,918,585 | 533,900,597 | 523,819,635 |
| Colorado | 8,997,236 | 11,924,981 | NA | 14,849,581 | 20,828,274 | 18,141,931 | 14,928,809 | 14,471,683 | 15,745,589 | 16,321,056 | 16,647,592 | 25,575,648 | 30,640,420 | 36,586,577 | 34,365,638 | 38,436,248 |
| Connecticut | 19,209,064 | 29,285,710 | NA | 28,559,052 | 40,065,786 | 39,192,091 | 40,017,523 | 41,023,368 | 47,405,244 | 55,816,528 | 49,460,236 | 55,586,487 | 54,492,430 | 57,241,037 | 58,810,853 | 55,050,702 |
| Delaware | 2,812,102 | 2,611,108 | NA | 1,683,562 | 2,389,720 | 2,609,902 | 4,635,720 | 4,729,141 | 2,243,868 | 2,199,635 | 2,694,787 | 3,267,034 | 3,856,775 | 3,826,318 | 3,598,156 | 3,338,773 |
| District of Columbia | 1,173,076 | 2,009,000 | NA | 487,411 | 696,198 | 1,221,108 | 2,018,447 | 1,848,800 | 3,136,271 | 3,216,073 | 4,059,615 | 3,724,444 | 4,632,564 | 4,222,412 | 5,860,668 | 8,128,666 |
| Florida | 42,329,624 | 51,968,573 | NA | 66,513,756 | 120,848,726 | 150,764,438 | 136,706,540 | 118,781,266 | 157,004,903 | 191,598,669 | 156,057,854 | 201,901,742 | 186,499,418 | 170,508,724 | 184,600,202 | 178,360,429 |
| Georgia | 10,620,188 | 4,886,946 | NA | 6,662,887 | 8,923,795 | 11,690,663 | 12,820,412 | 12,697,846 | 11,776,221 | 10,052,848 | 13,093,428 | 14,043,200 | 18,120,602 | 18,875,484 | 15,877,238 | 18,798,826 |
| Hawaii | 12,067,849 | 22,643,330 | NA | 13,976,364 | 14,233,186 | 13,103,983 | 11,145,520 | 13,094,794 | 13,125,455 | 11,520,961 | 18,032,316 | 11,414,756 | 12,981,754 | 7,325,591 | 11,122,545 | 10,315,823 |
| Idaho | 2,280,873 | 2,739,006 | NA | 8,552,058 | 9,059,568 | 9,366,052 | 11,785,529 | 12,929,174 | 12,862,935 | 12,935,976 | 14,501,235 | 15,029,122 | 15,690,791 | 17,828,263 | 21,882,976 | 18,210,054 |
| Illinois | 37,184,281 | 28,372,676 | NA | 9,570,893 | 16,553,689 | 17,207,125 | 17,859,438 | 17,999,229 | 24,988,306 | 30,817,406 | 19,774,448 | 18,582,210 | 17,501,801 | 17,548,556 | 16,055,917 | 16,213,542 |
| Indiana | 6,220,575 | 40,534,381 | NA | 47,549,928 | 8,444,832 | 6,983,364 | 7,667,988 | 10,167,120 | 23,590,723 | 9,987,058 | 13,279,466 | 16,966,067 | 19,814,418 | 12,357,151 | 9,591,408 | 10,485,205 |
| Iowa | 13,564,062 | 6,790,053 | NA | 37,976,643 | 12,950,176 | 36,992,222 | 16,147,249 | 19,365,308 | 10,357,010 | 11,277,534 | 12,296,647 | 9,343,267 | 9,710,381 | 9,386,675 | 11,877,131 | 10,579,028 |
| Kansas | 14,348,384 | 11,752,696 | NA | 12,305,385 | 6,509,225 | 6,635,626 | 6,160,680 | 5,708,223 | 5,326,455 | 6,462,317 | 7,385,081 | 10,358,152 | 14,274,887 | 12,355,458 | 13,152,904 | 15,002,554 |
| Kentucky | 17,558,997 | 11,960,634 | NA | 13,938,134 | 20,410,096 | 20,498,849 | 19,886,257 | 19,751,055 | 14,556,867 | 25,794,534 | 30,660,613 | 30,443,216 | 22,452,966 | 26,668,173 | 26,782,125 | 29,737,068 |
| Louisiana | 11,216,568 | 6,587,314 | NA | 8,285,478 | 9,165,144 | 14,979,079 | 18,143,396 | 15,713,110 | 18,778,159 | 32,175,199 | 27,268,166 | 41,455,247 | 37,057,152 | 35,142,225 | 31,965,852 | 32,115,461 |
| Maine | 17,509,051 | 27,525,552 | NA | 6,400,019 | 8,847,471 | 9,918,765 | 7,094,736 | 6,109,793 | 6,857,948 | 12,609,815 | 11,429,706 | 22,652,044 | 15,991,134 | 32,592,625 | 29,035,990 | 32,392,463 |
| Maryland | 24,945,119 | 40,298,691 | NA | 21,093,331 | 22,825,402 | 20,084,540 | 21,890,225 | 29,467,445 | 29,981,260 | 24,852,978 | 26,447,700 | 29,520,356 | 30,959,732 | 29,107,768 | 33,407,022 | 28,212,493 |
| Massachusetts | 10,729,419 | 5,600,189 | NA | 3,290,198 | 4,884,430 | 4,878,927 | 3,918,500 | 4,590,424 | 18,259,928 | 22,664,539 | 23,432,991 | 27,737,023 | 23,000,903 | 31,965,439 | 31,700,411 | 23,307,621 |
| Michigan | 75,016,589 | 32,849,159 | NA | 8,630,209 | 9,469,440 | 9,802,873 | 12,557,954 | 12,830,423 | 12,252,555 | 12,675,635 | 17,120,981 | 16,946,986 | 7,689,982 | 8,023,318 | 11,191,816 | 29,718,391 |
| Minnesota | 6,219,201 | 10,529,048 | NA | 16,655,913 | 12,212,546 | 11,653,327 | 11,524,686 | 14,855,954 | 19,378,825 | 21,455,746 | 22,861,457 | 18,344,346 | 18,502,324 | 20,150,907 | 20,511,698 | 22,483,420 |
| Mississippi | 2,744,882 | 7,343,892 | NA | 3,623,953 | 7,168,109 | 7,420,851 | 6,260,080 | 4,863,312 | 1,313,376 | 780,616 | 2,339,335 | 4,269,574 | 9,205,489 | 12,170,278 | 10,268,396 | 11,143,362 |
| Missouri | 18,465,303 | 15,567,277 | NA | 15,797,247 | 13,329,841 | 13,658,961 | 13,041,450 | 13,051,110 | 15,065,613 | 16,673,693 | 14,750,488 | 15,064,354 | 16,341,267 | 15,055,845 | 14,826,364 | 14,009,154 |
| Montana | 8,606,319 | 8,200,230 | NA | 7,200,442 | 7,543,860 | 6,474,190 | 6,841,897 | 6,570,018 | 10,428,010 | 10,362,726 | 17,990,469 | 18,230,275 | 8,867,208 | 8,794,140 | 13,131,022 | 8,447,295 |
| Nebraska | 5,602,163 | 4,043,480 | NA | 19,415,644 | 19,232,691 | 19,561,651 | 22,167,304 | 23,274,333 | 23,421,771 | 22,475,420 | 25,143,505 | 22,608,157 | 26,564,385 | 28,167,688 | 32,423,818 | 31,337,947 |
| Nevada | 1,397,463 | 1,748,776 | NA | 1,510,607 | 1,081,407 | 1,440,630 | 1,166,762 | 1,640,871 | 3,438,157 | 3,107,166 | 5,716,452 | 10,996,862 | 7,283,496 | 7,871,899 | 4,764,898 | 4,222,929 |
| New Hampshire | 2,040,544 | 1,685,178 | NA | 1,860,269 | 1,804,156 | 1,921,421 | 2,241,149 | 1,788,396 | 1,448,090 | 1,607,080 | 1,520,798 | 1,924,282 | 8,269,040 | 8,432,696 | 8,221,518 | 8,675,207 |
| New Jersey | 25,900,482 | 19,981,741 | NA | 25,146,838 | 38,639,539 | 27,868,781 | 29,818,258 | 34,413,516 | 30,384,821 | 33,756,028 | 30,483,309 | 37,415,121 | 51,295,009 | 23,886,758 | 23,754,925 | 12,864,404 |
| New Mexico | 3,105,000 | 672,921 | NA | 1,655,529 | 1,422,955 | 1,821,583 | 1,793,561 | 2,015,961 | 4,175,116 | 4,084,876 | 4,772,978 | 4,474,459 | 3,360,115 | 3,585,944 | 5,227,599 | 3,054,817 |
| New York | 103,597,135 | 128,361,166 | NA | 375,422,634 | 391,259,392 | 405,346,642 | 382,226,391 | 382,143,207 | 377,015,244 | 370,585,484 | 404,833,101 | 434,294,353 | 450,161,190 | 448,501,735 | 453,807,331 | 417,246,309 |
| North Carolina | 14,344,310 | 37,607,109 | NA | 41,404,202 | 27,342,380 | 29,611,785 | 32,529,885 | 30,649,974 | 22,614,350 | 34,502,384 | 37,142,044 | 32,513,098 | 33,719,142 | 32,754,090 | 35,892,185 | 36,870,713 |

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(Dollars)

| State | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|--------------------------|-------------|-------------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| North Dakota | 21,062,090 | 9,908,722 | NA | 16,415,807 | 6,352,675 | 8,072,257 | 6,034,991 | 7,364,184 | 10,784,572 | 9,611,936 | 8,470,309 | 14,851,522 | 16,108,458 | 12,140,358 | 18,065,251 | 35,139,613 |
| Ohio | 55,068,629 | 114,086,509 | NA | 121,394,963 | 125,120,668 | 159,322,228 | 153,382,845 | 188,311,926 | 94,882,275 | 94,299,294 | 99,329,386 | 108,542,077 | 93,189,867 | 80,148,377 | 76,169,661 | 55,336,431 |
| Oklahoma | 8,922,036 | 10,731,050 | NA | 15,930,878 | 21,226,236 | 20,304,740 | 23,133,843 | 28,224,758 | 30,473,702 | 29,952,934 | 33,460,991 | 33,512,333 | 26,848,844 | 29,607,888 | 30,050,338 | 55,989,692 |
| Oregon | 7,382,722 | 7,389,914 | NA | 11,120,140 | 18,013,730 | 20,001,272 | 22,003,035 | 23,083,506 | 29,679,288 | 31,990,073 | 24,831,090 | 30,549,080 | 31,254,046 | 44,222,659 | 30,486,113 | 37,419,218 |
| Pennsylvania | 117,320,158 | 103,973,448 | NA | 95,896,714 | 87,913,796 | 75,491,812 | 80,600,099 | 66,429,400 | 35,432,244 | 75,024,127 | 73,188,503 | 92,505,396 | 101,610,656 | 85,050,999 | 103,098,941 | 93,621,093 |
| Rhode Island | 150,000 | 1,771,949 | NA | 1,877,724 | 1,461,239 | 1,947,727 | 2,028,402 | 1,640,778 | 3,225,472 | 2,594,978 | 3,372,460 | 3,791,008 | 3,364,527 | 5,512,380 | 4,594,040 | 10,226,630 |
| South Carolina | 22,427,746 | 31,969,826 | NA | 28,599,885 | 71,290,446 | 84,692,653 | 72,467,293 | 47,732,177 | 22,311,739 | 27,419,285 | 30,512,353 | 34,686,268 | 34,291,703 | 46,983,243 | 46,800,816 | 44,557,581 |
| South Dakota | 5,791,586 | 5,473,603 | NA | 4,430,602 | 3,762,637 | 3,629,155 | 3,447,633 | 3,660,854 | 5,067,005 | 4,211,838 | 4,511,516 | 3,665,413 | 4,137,189 | 2,953,214 | 2,913,274 | 3,193,289 |
| Tennessee | 5,355,000 | 4,549,998 | NA | 3,752,587 | 1,064,262 | 3,642,490 | 4,293,334 | 3,430,476 | 4,363,565 | 3,828,567 | 7,040,422 | 9,433,779 | 9,231,710 | 7,439,395 | 7,039,923 | 10,287,206 |
| Texas | 28,019,645 | 29,650,947 | NA | 49,381,346 | 35,163,655 | 47,372,367 | 146,989,380 | 185,199,541 | 162,287,552 | 185,094,332 | 255,132,755 | 294,485,067 | 228,578,310 | 233,030,466 | 205,206,977 | 255,731,862 |
| Utah | 3,214,170 | 2,752,228 | NA | 26,442,711 | 30,812,205 | 34,418,764 | 47,388,335 | 53,636,842 | 36,466,790 | 38,168,197 | 31,465,580 | 32,673,333 | 27,593,284 | 7,985,508 | 9,205,399 | 8,316,189 |
| Vermont | 1,680,533 | 1,529,805 | NA | 738,707 | 1,665,079 | 1,711,673 | 1,653,315 | 1,827,562 | 2,039,520 | 2,199,082 | 1,041,249 | 1,140,267 | 1,841,754 | 2,730,591 | 1,669,900 | 1,535,157 |
| Virginia | 11,579,623 | 15,486,526 | NA | 22,662,519 | 28,961,491 | 29,376,417 | 33,295,328 | 36,017,935 | 38,439,643 | 43,645,755 | 33,556,333 | 29,624,941 | 30,596,207 | 29,951,353 | 35,552,565 | 44,913,546 |
| Washington | 22,834,218 | 23,333,431 | NA | 16,284,702 | 38,073,580 | 45,498,369 | 49,553,326 | 47,122,876 | 40,357,249 | 38,002,018 | 35,183,195 | 42,969,819 | 37,093,288 | 51,963,060 | 57,239,095 | 56,690,210 |
| West Virginia | 6,024,577 | 22,179,830 | NA | 10,357,006 | 23,867,732 | 35,475,338 | 33,580,156 | 19,027,684 | 11,216,042 | 10,840,665 | 8,233,431 | 11,193,344 | 10,492,922 | 11,068,061 | 10,862,315 | 9,013,091 |
| Wisconsin | 10,949,155 | 13,774,600 | NA | 24,942,415 | 12,435,548 | 21,128,936 | 17,861,390 | 21,212,446 | 14,643,835 | 14,517,671 | 13,442,158 | 13,300,449 | 15,879,688 | 17,473,890 | 14,340,014 | 15,239,075 |
| Wyoming | 6,326,604 | 19,500,357 | NA | 4,806,630 | 5,471,379 | 5,419,398 | 6,879,286 | 6,497,386 | 6,444,053 | 5,160,617 | 5,425,545 | 5,641,115 | 4,886,290 | 5,232,930 | 6,391,060 | 7,278,796 |
| Puerto Rico ^b | 1,458,790 | 2,326,241 | NA | 9,316,754 | 4,031,391 | 4,217,869 | 7,625,412 | 7,949,965 | 6,569,500 | 5,673,544 | na | na | na | na | na | na |

na = not applicable; did not report to survey. NA = not available; survey was not conducted for FY 2008.

^a U.S. total reflects all 50 states and the District of Columbia.^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Note(s):**

State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development.