

Appendix table 4-12

U.S. R&D and gross domestic product, by state: 2010

| Rank (R&D) | State | R&D (\$millions) | GDP (\$millions) | R&D/GDP (%) | R&D/GDP (rank) | % of all state R&D | Cumulative (%) |
|---------------|----------------------|---------------------|---------------------|----------------|-------------------|-----------------------|-------------------|
| — | All states | 376,952 | 14,416,604 | 2.61 | — | 100 | — |
| 1 | California | 81,005 | 1,877,568 | 4.31 | 9 | 21.5 | 21.5 |
| 2 | Massachusetts | 20,657 | 377,846 | 5.47 | 4 | 5.5 | 27.0 |
| 3 | Texas | 19,504 | 1,222,904 | 1.59 | 28 | 5.2 | 32.1 |
| 4 | Maryland | 18,429 | 293,349 | 6.28 | 3 | 4.9 | 37.0 |
| 5 | New Jersey | 17,876 | 480,446 | 3.72 | 7 | 4.7 | 41.8 |
| 6 | New York | 17,141 | 1,128,823 | 1.52 | 34 | 4.5 | 46.3 |
| 7 | Washington | 16,685 | 339,829 | 4.91 | 6 | 4.4 | 50.7 |
| 8 | Illinois | 15,820 | 646,794 | 2.45 | 27 | 4.2 | 54.9 |
| 9 | Michigan | 14,702 | 368,371 | 3.99 | 10 | 3.9 | 58.8 |
| 10 | Pennsylvania | 13,074 | 558,918 | 2.34 | 19 | 3.5 | 62.3 |
| 11 | Virginia | 10,838 | 419,365 | 2.58 | 11 | 2.9 | 65.2 |
| 12 | Ohio | 10,048 | 466,930 | 2.15 | 24 | 2.7 | 67.9 |
| 13 | Missouri | 9,253 | 243,386 | 3.80 | 31 | 2.5 | 70.3 |
| 14 | North Carolina | 8,746 | 424,562 | 2.06 | 25 | 2.3 | 72.6 |
| 15 | Florida | 7,952 | 736,065 | 1.08 | 43 | 2.1 | 74.7 |
| 16 | Connecticut | 7,435 | 221,347 | 3.36 | 5 | 2.0 | 76.7 |
| 17 | Minnesota | 7,393 | 270,792 | 2.73 | 17 | 2.0 | 78.7 |
| 18 | Indiana | 6,339 | 267,277 | 2.37 | 20 | 1.7 | 80.4 |
| 19 | New Mexico | 6,225 | 77,095 | 8.07 | 1 | 1.7 | 82.0 |
| 20 | Colorado | 6,164 | 253,101 | 2.44 | 21 | 1.6 | 83.6 |
| 21 | Arizona | 5,473 | 249,824 | 2.19 | 15 | 1.5 | 85.1 |
| 22 | Georgia | 5,451 | 403,230 | 1.35 | 36 | 1.4 | 86.5 |
| 23 | Wisconsin | 5,346 | 245,720 | 2.18 | 26 | 1.4 | 88.0 |
| 24 | Oregon | 5,250 | 185,211 | 2.83 | 13 | 1.4 | 89.3 |
| 25 | Tennessee | 3,955 | 256,194 | 1.54 | 32 | 1.0 | 90.4 |
| 26 | Alabama | 3,738 | 170,219 | 2.20 | 12 | 1.0 | 91.4 |
| 27 | District of Columbia | 3,568 | 103,546 | 3.45 | 2 | 0.9 | 92.3 |
| 28 | Utah | 3,197 | 119,231 | 2.68 | 22 | 0.8 | 93.2 |
| 29 | Iowa | 2,765 | 140,945 | 1.96 | 33 | 0.7 | 93.9 |
| 30 | South Carolina | 2,384 | 160,374 | 1.49 | 35 | 0.6 | 94.6 |
| 31 | Delaware | 2,327 | 64,010 | 3.64 | 14 | 0.6 | 95.2 |
| 32 | New Hampshire | 2,159 | 61,636 | 3.50 | 8 | 0.6 | 95.7 |
| 33 | Kansas | 2,002 | 126,074 | 1.59 | 30 | 0.5 | 96.3 |
| 34 | Idaho | 1,779 | 56,038 | 3.17 | 18 | 0.5 | 96.7 |
| 35 | Kentucky | 1,498 | 159,350 | 0.94 | 42 | 0.4 | 97.1 |
| 36 | Rhode Island | 1,439 | 48,840 | 2.95 | 16 | 0.4 | 97.5 |
| 37 | Louisiana | 1,200 | 232,394 | 0.52 | 49 | 0.3 | 97.8 |
| 38 | Oklahoma | 1,029 | 147,587 | 0.70 | 47 | 0.3 | 98.1 |
| 39 | Nevada | 939 | 126,188 | 0.74 | 46 | 0.2 | 98.4 |
| 40 | Nebraska | 935 | 90,072 | 1.04 | 38 | 0.2 | 98.6 |
| 41 | Mississippi | 852 | 95,480 | 0.89 | 44 | 0.2 | 98.8 |
| 42 | Hawaii | 688 | 65,599 | 1.05 | 41 | 0.2 | 99.0 |
| 43 | Arkansas | 590 | 102,235 | 0.58 | 45 | 0.2 | 99.2 |
| 44 | West Virginia | 584 | 61,934 | 0.94 | 37 | 0.2 | 99.3 |
| 45 | Maine | 488 | 50,674 | 0.96 | 40 | 0.1 | 99.5 |
| 46 | North Dakota | 468 | 35,654 | 1.31 | 29 | 0.1 | 99.6 |
| 47 | Vermont | 452 | 25,264 | 1.79 | 23 | 0.1 | 99.7 |
| 48 | Montana | 390 | 36,540 | 1.07 | 39 | 0.1 | 99.8 |

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|---------------|--------------|---------------------|---------------------|----------------|-------------------|-----------------------|-------------------|
| 49 | Alaska | 347 | 47,713 | 0.73 | 50 | 0.1 | 99.9 |
| 50 | South Dakota | 270 | 38,215 | 0.71 | 48 | 0.1 | 100.0 |
| 51 | Wyoming | 104 | 35,845 | 0.29 | 51 | 0.0 | 100.0 |

GDP = gross domestic product.

NOTE: U.S. total R&D expenditures for 2010 is an estimated \$406.7 billion; \$377.0 billion is allocable to the 50 states and District of Columbia.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics (NSF/NCSES), National Patterns of R&D Resources (2010–11), Business Research and Development and Innovation Survey (2010), Higher Education R&D Survey (FY 2010), Survey of Federal Funds for R&D (FYs 2010–12). State GDP data are from the U.S. Bureau of Economic Analysis, <http://www.bea.gov>, accessed 27 November 2012.