

Appendix table 4-24

Total R&D and gross state product, by state: 2003

| State rank | R&D (current \$ millions) | GSP (current \$ millions) | R&D/GSP (%) | Rank in R&D/GSP | U.S. R&D (%) | Cumulative percent |
|------------------------------|------------------------------|------------------------------|----------------|--------------------|-----------------|-----------------------|
| 1 California..... | 59,664 | 1,438,134 | 4.15 | 7 | 21.5 | 21.5 |
| 2 Michigan..... | 16,884 | 359,440 | 4.70 | 4 | 6.1 | 27.6 |
| 3 Massachusetts..... | 15,638 | 297,113 | 5.26 | 2 | 5.6 | 33.2 |
| 4 Texas..... | 14,785 | 821,943 | 1.80 | 30 | 5.3 | 38.5 |
| 5 New York..... | 13,031 | 838,035 | 1.55 | 32 | 4.7 | 43.2 |
| 6 New Jersey..... | 12,795 | 394,040 | 3.25 | 11 | 4.6 | 47.8 |
| 7 Washington..... | 11,469 | 245,143 | 4.68 | 5 | 4.1 | 52.0 |
| 8 Illinois..... | 11,045 | 499,731 | 2.21 | 20 | 4.0 | 55.9 |
| 9 Maryland..... | 10,162 | 213,073 | 4.77 | 3 | 3.7 | 59.6 |
| 10 Pennsylvania..... | 9,944 | 443,709 | 2.24 | 19 | 3.6 | 63.2 |
| 11 Ohio..... | 8,583 | 398,918 | 2.15 | 22 | 3.1 | 66.3 |
| 12 Virginia..... | 7,582 | 304,116 | 2.49 | 17 | 2.7 | 69.0 |
| 13 Connecticut..... | 6,548 | 174,085 | 3.76 | 9 | 2.4 | 71.4 |
| 14 North Carolina..... | 6,343 | 315,456 | 2.01 | 25 | 2.3 | 73.7 |
| 15 Minnesota..... | 5,842 | 210,184 | 2.78 | 15 | 2.1 | 75.8 |
| 16 Florida..... | 5,172 | 553,709 | 0.93 | 44 | 1.9 | 77.6 |
| 17 Colorado..... | 5,012 | 188,397 | 2.66 | 16 | 1.8 | 79.4 |
| 18 New Mexico..... | 4,977 | 57,078 | 8.72 | 1 | 1.8 | 81.2 |
| 19 Indiana..... | 4,487 | 213,342 | 2.10 | 24 | 1.6 | 82.8 |
| 20 Georgia..... | 3,923 | 321,199 | 1.22 | 37 | 1.4 | 84.2 |
| 21 Wisconsin..... | 3,642 | 198,096 | 1.84 | 29 | 1.3 | 85.6 |
| 22 Arizona..... | 3,578 | 183,272 | 1.95 | 27 | 1.3 | 86.8 |
| 23 Oregon..... | 3,572 | 119,973 | 2.98 | 13 | 1.3 | 88.1 |
| 24 Tennessee..... | 2,998 | 203,071 | 1.48 | 33 | 1.1 | 89.2 |
| 25 Missouri..... | 2,731 | 193,828 | 1.41 | 35 | 1.0 | 90.2 |
| 26 District of Columbia..... | 2,686 | 70,668 | 3.80 | 8 | 1.0 | 91.2 |
| 27 Alabama..... | 2,543 | 130,792 | 1.94 | 28 | 0.9 | 92.1 |
| 28 Kansas..... | 2,024 | 93,263 | 2.17 | 21 | 0.7 | 92.8 |
| 29 Rhode Island..... | 1,757 | 39,363 | 4.46 | 6 | 0.6 | 93.4 |
| 30 New Hampshire..... | 1,664 | 48,202 | 3.45 | 10 | 0.6 | 94.0 |
| 31 South Carolina..... | 1,616 | 127,963 | 1.26 | 36 | 0.6 | 94.6 |
| 32 Mississippi..... | 1,519 | 71,872 | 2.11 | 23 | 0.6 | 95.2 |
| 33 Utah..... | 1,506 | 76,674 | 1.96 | 26 | 0.5 | 95.7 |
| 34 Iowa..... | 1,451 | 102,400 | 1.42 | 34 | 0.5 | 96.2 |
| 35 Delaware..... | 1,414 | 50,486 | 2.80 | 14 | 0.5 | 96.7 |
| 36 Idaho..... | 1,209 | 40,358 | 2.99 | 12 | 0.4 | 97.2 |
| 37 Kentucky..... | 1,014 | 128,315 | 0.79 | 46 | 0.4 | 97.6 |
| 38 Oklahoma..... | 968 | 101,168 | 0.96 | 42 | 0.4 | 97.9 |
| 39 Louisiana..... | 954 | 144,321 | 0.66 | 48 | 0.3 | 98.2 |
| 40 Nebraska..... | 710 | 65,399 | 1.09 | 39 | 0.3 | 98.5 |
| 41 Nevada..... | 579 | 89,711 | 0.65 | 49 | 0.2 | 98.7 |
| 42 West Virginia..... | 538 | 46,726 | 1.15 | 38 | 0.2 | 98.9 |
| 43 Arkansas..... | 509 | 74,540 | 0.68 | 47 | 0.2 | 99.1 |
| 44 Vermont..... | 492 | 20,544 | 2.39 | 18 | 0.2 | 99.3 |
| 45 Hawaii..... | 438 | 46,671 | 0.94 | 43 | 0.2 | 99.4 |
| 46 North Dakota..... | 382 | 21,597 | 1.77 | 31 | 0.1 | 99.6 |
| 47 Maine..... | 372 | 40,829 | 0.91 | 45 | 0.1 | 99.7 |
| 48 Alaska..... | 321 | 31,704 | 1.01 | 40 | 0.1 | 99.8 |
| 49 Montana..... | 247 | 25,584 | 0.97 | 41 | 0.1 | 99.9 |
| 50 South Dakota..... | 149 | 27,337 | 0.55 | 50 | 0.1 | 100.0 |
| 51 Wyoming..... | 113 | 22,279 | 0.51 | 51 | 0.0 | 100.0 |

GSP = gross state product

NOTES: U.S. R&D total attributable to states is \$277,577. Other/unknown includes R&D performed in 50 states or District of Columbia, but specific location of performance not provided by survey respondents. Also includes R&D conducted by organizations in United States, but actual performance does not take place in particular state or District of Columbia (e.g., research conducted on marine vessels or in Puerto Rico). U.S. total attributable to states excludes other/unknown component. When state R&D taken as percentage of U.S. R&D, denominator is U.S. total attributable to states.

SOURCES: National Science Foundation, Division of Science Resources Statistics, Survey of Industrial Research and Development; Survey of Research and Development Expenditures at Universities and Colleges; Survey of Federal Funds for Research and Development; and U.S. Department of Commerce, Bureau of Economic Analysis, www.bea.gov/bea/newsrel/gspnewsrelease.htm.