

Appendix table 4-24

**Total R&D and gross domestic product, by state: 2004**

Rank/state	R&D (current \$millions)	GDP (current \$millions)	R&D/GDP (%)	Rank in R&D/GDP	U.S. R&D (%)	Cumulative percent
1 California.....	59,607	1,515,453	3.93	8	21.0	21.0
2 Michigan.....	16,722	363,380	4.60	4	5.9	26.9
3 Massachusetts.....	15,987	309,483	5.17	3	5.6	32.6
4 Maryland.....	14,341	229,158	6.26	2	5.1	37.6
5 Texas.....	14,266	904,412	1.58	30	5.0	42.7
6 New York.....	13,113	908,308	1.44	34	4.6	47.3
7 New Jersey.....	12,460	409,156	3.05	11	4.4	51.7
8 Illinois.....	11,300	534,464	2.11	23	4.0	55.7
9 Washington.....	10,936	252,384	4.33	6	3.9	59.5
10 Pennsylvania.....	10,813	464,467	2.33	18	3.8	63.3
11 Connecticut.....	7,881	183,873	4.29	7	2.8	66.1
12 Ohio.....	7,816	424,562	1.84	27	2.8	68.9
13 Virginia.....	7,345	325,467	2.26	19	2.6	71.5
14 North Carolina.....	6,491	324,622	2.00	24	2.3	73.8
15 Minnesota.....	5,992	222,628	2.69	14	2.1	75.9
16 Colorado.....	5,497	198,407	2.77	12	1.9	77.8
17 Florida.....	5,409	607,201	0.89	41	1.9	79.7
18 Indiana.....	5,130	229,618	2.23	21	1.8	81.5
19 New Mexico.....	5,114	63,861	8.01	1	1.8	83.3
20 Wisconsin.....	3,675	208,269	1.76	29	1.3	84.6
21 Oregon.....	3,664	135,014	2.71	13	1.3	85.9
22 Georgia.....	3,655	337,622	1.08	37	1.3	87.2
23 Arizona.....	3,544	194,134	1.83	28	1.3	88.5
24 Tennessee.....	3,180	214,400	1.48	31	1.1	89.6
25 Missouri.....	3,038	204,733	1.48	31	1.1	90.7
26 Alabama.....	2,760	141,702	1.95	26	1.0	91.6
27 District of Columbia.....	2,383	77,782	3.06	10	0.8	92.5
28 Kansas.....	2,169	99,125	2.19	22	0.8	93.2
29 Rhode Island.....	1,840	42,213	4.36	5	0.6	93.9
30 New Hampshire.....	1,665	51,656	3.22	9	0.6	94.5
31 Iowa.....	1,625	111,626	1.46	33	0.6	95.1
32 Utah.....	1,602	81,059	1.98	25	0.6	95.6
33 South Carolina.....	1,599	132,348	1.21	35	0.6	96.2
34 Delaware.....	1,182	52,454	2.25	20	0.4	96.6
35 Idaho.....	1,006	42,697	2.36	17	0.4	97.0
36 Kentucky.....	1,006	131,839	0.76	45	0.4	97.3
37 Louisiana.....	972	162,646	0.60	49	0.3	97.7
38 Oklahoma.....	814	111,400	0.73	46	0.3	97.9
39 Nebraska.....	740	67,976	1.09	36	0.3	98.2
40 Mississippi.....	651	76,534	0.85	43	0.2	98.4
41 Nevada.....	623	99,342	0.63	47	0.2	98.6
42 North Dakota.....	558	22,715	2.46	16	0.2	98.8
43 Vermont.....	546	22,020	2.48	15	0.2	99.0
44 West Virginia.....	523	49,903	1.05	39	0.2	99.2
45 Arkansas.....	514	81,752	0.63	47	0.2	99.4
46 Hawaii.....	490	50,781	0.96	40	0.2	99.6
47 Maine.....	384	43,131	0.89	41	0.1	99.7
48 Montana.....	295	27,790	1.06	38	0.1	99.8
49 Alaska.....	271	34,729	0.78	44	0.1	99.9
50 South Dakota.....	149	29,519	0.50	50	0.1	100.0
51 Wyoming.....	98	23,876	0.41	51	0.0	100.0

GDP = gross domestic product

NOTE: U.S. R&amp;D total attributable to states is \$283,439 million.

SOURCES: National Science Foundation, Division of Science Resources Statistics, Survey of Industrial Research and Development (2004); Survey of Research and Development Expenditures at Universities and Colleges: FY 2004; Survey of Federal Funds for Research and Development: FY 2004; and Bureau of Economic Analysis, <http://www.bea.gov/regional/index.htm>, accessed 25 August 2007.