

APPENDIX TABLE 4-11 
**U.S. R&D and gross domestic product, by state: 2015**

(Millions of current dollars, R&amp;D-to-GDP ratio, and state rank)

R&D rank	State (listed by R&D rank)	R&D (current \$millions)	GDP (current \$millions)	R&D/ GDP (%)	R&D/ GDP rank	Total state R&D (%)	Cumulative (%)
-	All states	468,866	17,925,143	2.62	-	100.0	-
1	California	125,056	2,491,619	5.02	4	26.7	26.7
2	Massachusetts	28,665	488,100	5.87	2	6.1	32.8
3	Texas	23,668	1,611,189	1.47	31	5.0	37.8
4	New York	22,401	1,445,611	1.55	30	4.8	42.6
5	Maryland	20,385	366,242	5.57	3	4.3	47.0
6	Michigan	19,891	470,611	4.23	6	4.2	51.2
7	Washington	20,038	446,417	4.49	5	4.3	55.5
8	Illinois	16,502	772,182	2.14	22	3.5	59.0
9	New Jersey	15,865	564,360	2.81	13	3.4	62.4
10	Pennsylvania	14,839	708,402	2.09	25	3.2	65.5
11	Ohio	12,233	607,326	2.01	27	2.6	68.2
12	North Carolina	11,823	499,741	2.37	19	2.5	70.7
13	Virginia	10,107	481,721	2.10	23	2.2	72.8
14	Connecticut	9,918	256,306	3.87	8	2.1	74.9
15	Florida	9,456	883,861	1.07	36	2.0	77.0
16	Minnesota	8,053	326,833	2.46	17	1.7	78.7
17	Missouri	7,426	292,718	2.54	16	1.6	80.3
18	Indiana	7,663	333,363	2.30	20	1.6	81.9
19	Oregon	7,208	216,522	3.33	10	1.5	83.4
20	Arizona	7,011	291,448	2.41	18	1.5	84.9
21	Georgia	6,877	501,522	1.37	33	1.5	86.4
22	Colorado	6,697	313,329	2.14	21	1.4	87.8
23	New Mexico	6,078	93,230	6.52	1	1.3	89.1



R&D rank	State (listed by R&D rank)	R&D (current \$millions)	GDP (current \$millions)	R&D/ GDP (%)	R&D/ GDP rank	Total state R&D (%)	Cumulative (%)
24	Wisconsin	6,132	301,587	2.03	26	1.3	90.4
25	Alabama	4,195	199,980	2.10	24	0.9	91.3
26	Tennessee	4,369	316,659	1.38	32	0.9	92.3
27	District of Columbia	3,567	121,119	2.95	12	0.8	93.0
28	Utah	4,174	149,099	2.80	14	0.9	93.9
29	Iowa	3,407	175,809	1.94	28	0.7	94.6
30	Delaware	2,887	68,864	4.19	7	0.6	95.2
31	Kansas	2,716	151,845	1.79	29	0.6	95.8
32	New Hampshire	2,333	74,269	3.14	11	0.5	96.3
33	Idaho	2,226	65,460	3.40	9	0.5	96.8
34	South Carolina	2,257	201,831	1.12	35	0.5	97.3
35	Kentucky	1,853	191,897	0.97	38	0.4	97.7
36	Rhode Island	1,427	55,650	2.56	15	0.3	98.0
37	Mississippi	943	105,871	0.89	40	0.2	98.2
38	Louisiana	1,124	238,075	0.47	50	0.2	98.4
39	Oklahoma	1,311	188,011	0.70	45	0.3	98.7
40	Nebraska	1,087	113,458	0.96	39	0.2	98.9
41	Nevada	566	141,070	0.40	51	0.1	99.1
42	Hawaii	609	80,599	0.76	43	0.1	99.2
43	Arkansas	624	118,677	0.53	49	0.1	99.3
44	West Virginia	546	73,384	0.74	44	0.1	99.4
45	Maine	508	57,332	0.89	41	0.1	99.5
46	North Dakota	460	55,927	0.82	42	0.1	99.6
47	Montana	459	45,845	1.00	37	0.1	99.7
48	Vermont	374	30,300	1.23	34	0.1	99.8
49	Alaska	333	53,384	0.62	47	0.1	99.9
50	South Dakota	271	47,073	0.58	48	0.1	99.9



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51	Wyoming	253	39,415	0.64	46	0.1	100.0

GDP = gross domestic product.

**Note(s)**

U.S. total R&D expenditures for 2015 was \$495.1 billion; \$448.9 billion could be allocated to the 50 states and District of Columbia.

**Source(s)**

National Science Foundation, National Center for Science and Engineering Statistics, National Patterns of R&D Resources (annual series). State GDP data are from the U.S. Bureau of Economic Analysis, <https://www.bea.gov/regional/index.htm>, accessed 17 June 2017.

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