

TABLE 4-A

Top 10 states in U.S. R&D performance, by sector and intensity: 2015

(Millions of current dollars, ranking, and R&D-to-GDP ratio)

Rank	All R&D ^a		Sector ranking			R&D intensity (R&D-to-GDP ratio)		
	State	Amount (current \$millions)	Business	Higher education	Federal intramural and FFRDCs ^b	State	R&D/GDP (%)	GDP (current \$billions)
1	California	125,056	California	California	Maryland	New Mexico	6.52	93.2
2	Massachusetts	28,665	Massachusetts	New York	California	Massachusetts	5.87	488.1
3	Texas	23,668	Michigan	Texas	New Mexico	Maryland	5.57	366.2
4	New York	22,401	Texas	Maryland	Virginia	California	5.02	2,491.6
5	Maryland	20,385	Washington	Massachusetts	District of Columbia	Washington	4.49	446.4
6	Michigan	19,891	New York	Pennsylvania	Massachusetts	Michigan	4.23	470.6
7	Washington	20,038	New Jersey	North Carolina	Alabama	Delaware	4.19	68.9
8	Illinois	16,502	Illinois	Illinois	Tennessee	Connecticut	3.87	256.3
9	New Jersey	15,865	Pennsylvania	Florida	Illinois	Idaho	3.34	72.6
10	Pennsylvania	14,839	Connecticut	Michigan	Washington	Oregon	3.38	215.3

FFRDC = federally funded research and development center; GDP = gross domestic product.

^a Includes in-state total R&D performance of the business sector, universities and colleges, federal agencies, FFRDCs, and federally financed nonprofit R&D.

^b Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural R&D performance.

Note(s)

Small differences in parameters for state rankings may not be significant. Rankings do not account for the margin of error of the estimates from sample surveys.

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. See Appendix Table 4-10.

Science and Engineering Indicators 2018