



Table 4-A Top 10 states in U.S. R&D performance, by sector and intensity: 2012

Rank	All R&D ^a		Sector ranking			R&D intensity (R&D/GDP ratio)		
	State	Amount (current \$millions)	Business	Universities and colleges	Federal intramural and FFRDCs ^b	State	R&D/GDP (%)	GDP (current \$billions)
1	California	97,531	California	California	Maryland	New Mexico	6.62	89.2
2	Massachusetts	24,129	Massachusetts	New York	California	Massachusetts	5.59	431.9
3	Texas	20,673	New Jersey	Texas	New Mexico	Maryland	5.45	336.5
4	Maryland	18,354	Texas	Maryland	Virginia	California	4.59	2,125.7
5	New York	18,249	Michigan	Pennsylvania	District of Columbia	Washington	4.52	390.9
6	Michigan	17,844	Washington	Massachusetts	Massachusetts	Delaware	4.31	60.7
7	Washington	17,678	Illinois	North Carolina	Alabama	Michigan	4.28	416.8
8	New Jersey	17,630	New York	Illinois	Tennessee	Connecticut	3.57	242.9
9	Illinois	16,736	Pennsylvania	Michigan	Illinois	New Hampshire	3.55	66.1
10	Pennsylvania	13,210	Ohio	Florida	Washington	New Jersey	3.33	528.8

FFRDC = federally funded R&D 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.

NOTES: 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.

SOURCES: 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.

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