

TABLE 11. U.S. R&D expenditures, by state, performing sector, and funding sector: 2013  
(Millions of current dollars)

State	All R&D	R&D rank	Performer:	Federal	FFRDCs			Business			Higher education <sup>a</sup>					Other nonprofit institutions	State, internal <sup>b</sup>	R&D intensity <sup>c</sup>						
			Funding source:	Federal	Total	Federal	Non-federal <sup>d</sup>	Total	Own	Non-federal <sup>e</sup>	Federal	Total	Federal	Other government	Business	Higher education	Non-profit	Other	Federal <sup>f</sup>	Total	GDP	Per-	Rank	
																					rank	cent	Rank	
U.S. total <sup>g</sup>	456,095	na		33,026	16,833	16,422	411	322,528	264,913	28,059	29,362	64,680	36,867	3,594	3,502	15,240	3,833	1,645	5,939	467	16,768,100	na	2.72	na
States total <sup>g</sup>	427,310	na		27,465	16,867	16,455	412	309,868	254,793	26,165	25,298	66,874	39,357	3,649	3,498	14,936	3,858	1,577	5,771	464	16,665,217	na	2.56	na
Alabama	3,920	27		1,483	0	0	0	1,563	802	97	663	842	517	42	35	220	20	7	23	9	194,671	26	2.01	25
Alaska	318	49		77	0	0	0	46	33	6	6	184	106	13	6	55	2	2	4	6	57,276	44	0.55	48
Arizona	6,712	20		311	41	37	3	5,208	4,036	563	609	1,065	556	45	27	315	53	70	70	16	274,734	22	2.44	19
Arkansas	611	44		14	0	0	0	288	252	23	13	295	115	63	12	82	6	17	12	3	118,553	34	0.52	49
California	104,676	1		1,962	4,091	3,965	126	89,373	76,851	5,374	7,147	8,367	4,895	402	523	1,376	784	387	826	57	2,212,991	1	4.73	4
Colorado	6,740	19		353	520	483	37	4,522	3,869	221	432	1,253	934	37	83	118	70	11	83	8	288,338	19	2.34	21
Connecticut	9,124	14		5	0	0	0	8,010	5,789	394	1,826	1,059	665	18	41	263	64	8	25	26	246,897	23	3.70	9
Delaware	2,521	30		4	0	0	0	2,310	1,705	587	18	197	132	10	6	45	2	3	7	3	60,816	43	4.15	7
District of Columbia	4,189	25		2,893	5	5	0	488	297	30	161	524	310	4	10	136	56	9	279	*	111,695	35	3.75	8
Florida	8,856	15		717	0	0	0	5,795	3,900	517	1,377	2,172	1,127	164	99	671	92	18	125	47	800,697	4	1.11	35
Georgia	6,191	22		194	0	0	0	4,023	3,350	491	182	1,957	1,195	50	101	524	68	19	15	2	456,483	10	1.36	34
Hawaii	659	42		84	0	0	0	214	158	44	12	344	242	12	4	74	6	7	13	4	75,095	39	0.88	42
Idaho	1,928	34		41	497	486	11	1,238	908	324	7	144	83	23	4	29	2	2	1	8	61,117	42	3.15	12
Illinois	16,932	8		156	1,085	1,036	49	13,096	11,961	936	200	2,501	1,566	51	119	587	152	27	92	2	724,795	5	2.34	22
Indiana	7,958	17		139	0	0	0	6,479	5,482	875	122	1,336	602	72	65	483	94	21	2	1	311,188	16	2.56	16
Iowa	2,875	29		56	34	33	1	2,052	1,498	124	430	714	383	44	32	227	25	4	13	6	166,787	30	1.72	30
Kansas	2,513	31		20	0	0	0	1,942	1,321	577	44	545	259	52	43	159	27	4	3	2	142,449	31	1.76	29
Kentucky	1,852	35		18	0	0	0	1,279	917	44	318	551	243	64	23	173	17	32	1	3	183,582	27	1.01	40
Louisiana	1,075	38		43	0	0	0	354	275	41	38	672	299	94	41	197	25	16	2	5	246,660	24	0.44	50
Maine	554	45		10	0	0	0	365	314	11	40	105	49	20	3	29	3	1	73	1	54,609	45	1.01	38
Maryland	19,105	4		10,057	481	481	0	4,770	2,665	530	1,575	3,451	2,724	56	65	406	174	26	345	1	339,409	15	5.63	2
Massachusetts	24,128	2		388	1,337	1,334	3	17,395	14,000	2,457	939	3,533	2,181	26	216	680	264	166	1,475	1	441,467	12	5.47	3
Michigan	18,805	5		566	0	0	0	15,925	14,409	1,154	363	2,267	1,265	51	71	761	88	31	44	3	434,674	13	4.33	6
Minnesota	7,845	18		90	0	0	0	6,614	6,057	268	288	901	510	61	30	255	24	22	239	1	307,270	17	2.55	17
Mississippi	1,063	39		433	0	0	0	211	183	15	13	417	208	78	26	95	7	2	0	2	104,095	37	1.02	37

TABLE 11. U.S. R&D expenditures, by state, performing sector, and funding sector: 2013  
(Millions of current dollars)

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			former:	ederal	Total	Fed-eral	Non-federal <sup>d</sup>	Total	Own	Non-federal <sup>e</sup>	Fed-eral	Total	Fed-eral	govern-ment	Busi-ness	Higher ed-ucation	Non-profit	Other	Federal <sup>f</sup>	Total	GDP	Per-	Rank	
			Fund- ing source:	Fed-eral	Total	Fed-eral	Non-federal <sup>d</sup>	Total	Non-federal <sup>e</sup>	Fed-eral	Total	Fed-eral	govern-ment	Busi-ness	Higher ed-ucation	Non-profit	Other	Federal <sup>f</sup>	Total	GDP	Per-	Rank		
Missouri	8,365	16		89	0	0	0	7,174	3,570	D	D	1,070	612	24	66	257	96	15	26	7	276,715	21	3.02	13
Montana	335	48		52	0	0	0	92	73	11	9	186	113	11	1	51	1	9	3	2	43,006	49	0.78	44
Nebraska	1,108	37		31	0	0	0	627	577	34	15	445	199	11	22	187	19	7	5	*	109,364	36	1.01	39
Nevada	761	41		82	0	0	0	525	460	38	28	153	104	7	2	34	3	4	1	*	127,989	33	0.59	46
New Hampshire	2,426	32		23	0	0	0	2,045	811	322	911	354	262	2	14	56	14	6	3	1	68,701	41	3.53	10
New Jersey	15,877	9		571	85	83	2	14,022	11,955	1,760	307	1,175	680	70	41	291	84	9	21	3	537,396	8	2.95	14
New Mexico	5,803	23		730	4,120	4,046	75	519	291	32	196	404	269	27	9	82	8	9	28	1	90,828	38	6.39	1
New York	18,619	6		156	530	505	25	12,032	9,456	863	1,713	5,521	3,130	272	427	1,205	358	129	307	74	1,341,591	3	1.39	33
North Carolina	11,318	11		281	0	0	0	8,083	5,690	2,250	142	2,740	1,653	124	269	504	144	45	194	21	467,075	9	2.42	20
North Dakota	489	47		39	0	0	0	229	215	10	4	219	85	56	11	61	2	5	1	*	51,048	47	0.96	41
Ohio	11,164	12		670	0	0	0	8,118	5,582	1,565	970	2,168	1,353	109	167	395	101	44	206	2	562,845	7	1.98	27
Oklahoma	1,016	40		58	0	0	0	505	450	36	19	420	188	63	27	128	8	6	31	1	176,398	29	0.58	47
Oregon	6,483	21		91	0	0	0	5,635	5,405	173	57	705	519	43	25	70	36	12	33	20	204,867	25	3.16	11
Pennsylvania	14,743	10		215	135	134	1	10,761	10,001	524	236	3,347	2,351	100	153	487	161	95	278	7	640,294	6	2.30	23
Rhode Island	1,328	36		208	0	0	0	571	501	33	37	477	214	10	7	213	26	7	72	*	53,300	46	2.49	18
South Carolina	1,949	33		107	116	116	0	1,016	861	69	87	648	305	11	35	266	20	11	24	37	182,400	28	1.07	36
South Dakota	308	50		14	0	0	0	164	149	11	3	117	62	19	1	25	6	3	13	*	44,673	48	0.69	45
Tennessee	4,146	26		141	1,452	1,414	38	1,423	1,188	180	56	1,042	697	41	28	229	35	14	87	1	290,125	18	1.43	31
Texas	21,690	3		1,137	12	11	1	15,550	13,406	1,159	984	4,813	2,174	717	303	1,120	339	160	167	12	1,557,193	2	1.39	32
Utah	3,825	28		173	0	0	0	2,945	2,384	141	420	689	432	36	47	146	23	6	1	18	134,974	32	2.83	15
Vermont	533	46		4	0	0	0	406	363	26	18	121	89	*	2	25	4	1	*	1	28,838	51	1.85	28
Virginia	9,430	13		2,052	1,392	1,369	22	4,445	2,465	284	1,695	1,420	761	144	55	398	54	7	108	13	454,984	11	2.07	24
Washington	18,005	7		272	934	916	18	14,860	13,996	362	501	1,562	1,077	83	57	207	116	21	364	13	407,160	14	4.42	5
West Virginia	616	43		97	0	0	0	306	273	28	4	196	95	15	5	69	4	8	11	5	70,595	40	0.87	43
Wisconsin	5,718	24		49	0	0	0	4,227	3,618	547	61	1,419	715	97	35	471	68	32	15	7	284,728	20	2.01	26
Wyoming	107	51		9	0	0	0	28	21	4	2	65	54	6	2	2	*	1	1	3	41,782	50	0.26	51

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			former:	ederal	Total	Fed-eral	Non-federal <sup>d</sup>	Total	Own	Non-federal <sup>e</sup>	Fed-eral	Total	Fed-eral	govern-ment	Busi-ness	Higher ed-ucation	Non-profit	Other	Federal <sup>f</sup>	Total	GDP	Per-	Rank			
			Fund- ing source:	Fed-eral	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total		
U.S. undistributed <sup>h</sup>	16,776	na		4,112	0	0	0	12,664	10,120	D	0	0	0	0	0	0	0	0	0	0	0	0	0	na	na	na
Puerto Rico <sup>i</sup>	168	na		20	0	0	0	NA	NA	NA	NA	141	92	5	3	38	2	*	1	6	103,135	na	NA	na		
Other <sup>j</sup>	327	na		301	0	0	0	0	0	0	0	26	21	4	*	*	*	*	0	na	na	na	na	na	na	

\* = < \$0.5 million; D = data withheld to avoid disclosing operations of individual companies; na = not applicable; NA = not available.

FFRDC = federally funded R&D center; GDP = gross domestic product.

<sup>a</sup> State-level university R&D data have not been adjusted to eliminate the double counting of funds passed through from one academic institution to another. At the national level, funds passed through to educational subrecipients accounted for 4.7% of total R&D expenditures reported by universities and colleges (U&C) in FY 2013.

<sup>b</sup> Internal performers include state agency and department employees and also services performed by others in support of an internal R&D project.

<sup>c</sup> R&D intensity is the ratio of total R&D performed in a state to its state GDP.

<sup>d</sup> Nonfederal sources of R&D expenditures reported by FFRDCs in FY 2013 included state and local governments (\$50 million), business (\$180 million), nonprofit organizations (\$68 million), and all other sources (\$113 million).

<sup>e</sup> R&D paid for by nonfederal sources includes funding from other companies located inside (\$13 billion) or outside (\$15 billion) the United States, U.S. state government agencies (\$194 million), foreign government agencies and laboratories (\$526 million), other organizations located inside (\$262 million) or outside (\$31 million) the United States.

<sup>f</sup> Other sources of support for nonprofit institutions were unavailable by state. In 2013, total nonprofit performance is estimated at \$18.6 billion. Business provided an estimated \$1.4 billion to the nonprofit sector, and nonprofit institutions provided an estimated \$11.2 billion.

<sup>g</sup> States totals differ from U.S. totals for several reasons: (1) some R&D expenditures cannot be allocated to 1 of the 50 states or the District of Columbia; (2) nonfederal sources of other nonprofit R&D expenditures could not be allocated by state; (3) state-level U&C data have not been adjusted to eliminate double counting of funds passed through from one academic institution to another; and (4) state-level R&D data are not converted from fiscal years to calendar years.

<sup>h</sup> Reported data that could not be assigned to 1 of the 50 states or the District of Columbia.

<sup>i</sup> Data on business R&D performance in Puerto Rico are not collected.

<sup>j</sup> Includes R&D expenditures reported for outlying areas (Guam, U.S. Virgin Islands) and offices abroad but excludes Puerto Rico.

NOTE: Business R&D data refer to calendar years; the data for the other R&D performers refer to fiscal years but are used here as approximations to calendar year data.

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, <http://www.bea.gov/regional/index.htm>, accessed 11 June 2015.