

TABLE 12. U.S. R&D expenditures, by state, performing sector, and funding sector: 2010  
(Millions of current dollars)

State	Performer: Funding source:	Funding Sector																	R&D intensity <sup>c</sup>			
		Federal		FFRDCs			Business				U&C <sup>a</sup>				Other nonprofit institutions	State, internal <sup>b</sup>	GDP rank	Percent	Rank			
		All R&D	R&D rank	Federal	Total	Federal	Non-federal <sup>d</sup>	Total	Own	Non-federal <sup>e</sup>	Federal	Total	Federal	government	Business	U&C				Non-profit	Federal <sup>f</sup>	Total
U.S. total <sup>g</sup>	407,703	na	31,970	17,722	NA	NA	278,977	221,706	23,072	34,199	60,369	36,565	3,788	3,145	12,100	4,771	7,093	NA	14,498,900	na	2.81	na
States total <sup>g</sup>	377,369	na	29,779	18,031	17,578	453	261,016	205,336	18,583	24,717	61,028	37,358	3,849	3,200	11,845	4,776	7,099	416	14,416,604	na	2.62	na
Alabama	3,748	24	1,410	0	0	0	1,449	628	72	749	847	541	42	33	197	34	32	10	170,219	25	2.20	12
Alaska	355	49	89	0	0	0	74	D	D	D	181	111	10	6	49	5	4	8	47,713	45	0.74	50
Arizona	5,481	15	372	57	53	4	4,054	2,841	246	967	945	495	61	32	274	83	45	8	249,824	18	2.19	15
Arkansas	596	43	26	0	0	0	276	245	19	12	268	126	61	11	55	14	21	5	102,235	34	0.58	45
California	81,035	1	2,747	4,293	4,155	138	64,914	53,327	3,987	7,600	7,833	4,766	378	492	1,168	1,028	1,217	30	1,877,568	1	4.32	9
Colorado	6,171	21	283	547	505	42	3,899	3,270	219	410	1,180	893	46	65	102	75	256	7	253,101	19	2.44	21
Connecticut	7,458	12	23	0	0	0	6,498	5,482	429	587	889	620	20	29	147	73	25	23	221,347	23	3.37	5
Delaware	2,329	33	6	0	0	0	2,144	D	D	D	169	116	7	6	36	4	9	2	64,010	42	3.64	14
District of Columbia	3,568	19	2,551	6	6	0	235	84	28	123	470	308	12	11	84	55	305	*	103,546	35	3.45	2
Florida	8,002	17	709	0	0	0	5,127	3,045	313	1,770	1,995	1,103	194	80	520	97	121	51	736,065	4	1.09	43
Georgia	5,454	22	154	0	0	0	3,644	2,931	283	429	1,627	985	53	85	411	94	25	3	403,230	10	1.35	36
Hawaii	691	44	97	0	0	0	257	173	47	37	318	209	24	24	45	16	16	3	65,599	39	1.05	41
Idaho	1,783	34	50	478	464	15	1,120	810	296	13	126	76	23	3	22	3	4	5	56,038	43	3.18	18
Illinois	15,822	10	204	1,053	1,006	47	12,221	11,500	483	237	2,224	1,427	56	80	504	156	117	2	646,794	5	2.45	27
Indiana	6,340	18	165	0	0	0	4,985	4,219	580	186	1,186	530	68	57	404	127	2	1	267,277	16	2.37	20
Iowa	2,766	30	64	31	30	1	1,950	1,516	D	D	707	398	51	31	196	30	14	1	140,945	30	1.96	33
Kansas	2,004	32	21	0	0	0	1,492	1,039	406	47	483	232	53	34	141	23	6	1	126,074	32	1.59	30
Kentucky	1,499	35	24	0	0	0	889	820	48	21	575	283	55	19	187	31	10	2	159,350	28	0.94	42
Louisiana	1,206	37	53	0	0	0	428	340	39	49	714	333	109	39	193	40	5	7	232,394	24	0.52	49
Maine	489	46	18	0	0	0	251	228	9	14	138	66	22	4	38	7	81	2	50,674	44	0.97	40
Maryland	18,431	6	9,896	694	694	0	4,384	2,538	600	1,247	3,139	2,423	63	97	380	176	315	2	293,349	15	6.28	3
Massachusetts	20,658	4	835	1,252	1,248	4	14,020	11,139	1,804	1,077	2,750	2,010	24	185	240	291	1,801	1	377,846	13	5.47	4
Michigan	14,704	8	480	0	0	0	12,144	10,750	1,017	377	2,031	1,178	62	61	626	105	46	2	368,371	12	3.99	10
Minnesota	7,394	16	61	0	0	0	6,246	5,677	255	314	832	443	70	30	195	94	254	2	270,792	17	2.73	17
Mississippi	856	41	164	0	0	0	243	170	13	61	444	268	76	11	77	11	1	4	95,480	36	0.90	44
Missouri	9,261	26	26	0	0	0	8,106	D	D	D	1,087	684	28	55	223	97	33	8	243,386	22	3.81	31
Montana	392	48	29	0	0	0	145	123	15	7	208	140	8	1	47	12	8	2	36,540	49	1.07	39
Nebraska	936	39	34	0	0	0	527	491	22	15	368	195	16	16	103	39	6	*	90,072	37	1.04	38
Nevada	940	40	50	0	0	0	709	646	22	41	174	119	9	2	40	4	6	*	126,188	31	0.74	46
New Hampshire	2,159	29	26	0	0	0	1,818	841	D	D	311	204	7	19	56	25	4	1	61,636	41	3.50	8
New Jersey	17,880	2	766	84	84	*	15,925	13,916	1,750	259	1,076	602	103	41	249	81	26	3	480,446	7	3.72	7
New Mexico	6,225	20	550	4,663	4,577	86	546	231	48	267	423	290	25	14	81	13	43	1	77,095	38	8.08	1
New York	17,243	7	260	536	515	20	10,954	8,126	694	2,134	4,951	2,971	324	264	953	439	440	102	1,128,823	3	1.53	34
North Carolina	8,765	14	404	0	0	0	5,749	4,688	849	211	2,465	1,481	148	323	346	166	128	19	424,562	9	2.06	25
North Dakota	469	47	27	0	0	0	236	211	18	7	204	105	44	12	37	5	1	1	35,654	50	1.31	29
Ohio	10,050	13	898	0	0	0	6,857	5,134	561	1,162	2,052	1,250	165	166	364	107	241	2	466,930	8	2.15	24
Oklahoma	1,029	38	112	0	0	0	478	422	37	19	401	176	54	29	124	18	39	*	147,587	29	0.70	47
Oregon	5,264	25	110	0	0	0	4,396	4,188	144	64	696	503	41	23	75	54	48	14	185,211	26	2.84	13

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State	Performer: Funding source:	Federal		FFRDCs			Business				U&C <sup>a</sup>				Other nonprofit institutions	State, internal <sup>b</sup>	R&D intensity <sup>c</sup>						
		All R&D	R&D rank	Federal	Total	Federal	Non-federal <sup>d</sup>	Total	Own	Non-federal <sup>e</sup>	Federal	Total	Federal	government	Business	U&C	Non-profit	Federal <sup>f</sup>	Total	GDP	rank	Percent	Rank
Pennsylvania	13,079	9	292	99	97	3	9,246	8,412	538	296	3,128	2,187	144	157	479	162	308	5	558,918	6	2.34	19	
Rhode Island	1,439	36	384	0	0	0	531	448	42	40	429	192	8	6	199	23	95	*	48,840	46	2.95	16	
South Carolina	2,417	31	220	127	127	0	1,316	944	264	109	660	346	8	42	238	27	61	33	160,374	27	1.51	35	
South Dakota	271	50	10	0	0	0	120	99	13	8	131	84	19	2	20	5	8	1	38,215	48	0.71	48	
Tennessee	3,955	27	138	1,538	1,495	44	1,244	1,113	88	43	938	642	65	31	158	43	96	0	256,194	20	1.54	32	
Texas	19,506	3	488	15	15	*	14,384	11,850	1,193	1,342	4,416	2,238	623	262	869	425	200	3	1,222,904	2	1.60	28	
Utah	3,207	28	567	0	0	0	2,066	1,419	D	D	562	340	30	27	137	28	2	10	119,231	33	2.69	22	
Vermont	453	45	6	0	0	0	313	278	16	19	133	101	*	2	23	6	*	1	25,264	51	1.79	23	
Virginia	10,845	11	3,406	1,440	1,415	24	4,655	2,340	292	2,023	1,199	726	116	46	241	70	138	7	419,365	11	2.59	11	
Washington	16,695	5	264	1,117	1,092	25	13,545	13,022	319	204	1,358	960	82	102	162	52	401	10	339,829	14	4.91	6	
West Virginia	591	42	137	0	0	0	240	191	12	38	195	110	14	5	63	3	12	7	61,934	40	0.95	37	
Wisconsin	5,351	23	65	0	0	0	3,927	3,399	449	79	1,336	723	124	26	265	197	18	5	245,720	21	2.18	26	
Wyoming	108	51	8	0	0	0	39	32	4	3	55	45	4	2	3	1	2	4	35,845	47	0.30	51	
U.S. undistributed <sup>h</sup>	17,960	na	0	0	0	0	17,960	12,534	3,063	2,363	0	0	0	0	0	0	0	0	0	0	na	na	na
Puerto Rico <sup>i</sup>	NA	na	6	13	13	*	NA	NA	NA	NA	125	84	2	5	31	3	*	*	96,260	na	NA	na	
Other <sup>j</sup>	227	na	189	0	0	0	0	0	0	0	38	33	2	*	*	2	*	na	na	na	na	na	

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

FFRDC = federally funded research and development center; GDP = gross domestic product; U&C = universities and colleges.

<sup>a</sup> State-level university R&D data have not been adjusted to eliminate double counting of funds passed through from one academic institution to another. At the national level, funds passed through to educational subrecipients account for 4.5% of total R&D expenditures reported by universities and colleges in FY 2010.

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

<sup>c</sup> R&D intensity is 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 2010 included state and local governments (\$53 million), business (\$167 million), nonprofit organizations (\$44 million), and all other sources (\$190 million).

<sup>e</sup> R&D paid for by nonfederal sources includes funding from other companies located inside (\$11.0 billion) or outside (\$11.0 billion) the United States, U.S. state government agencies (\$156 million), foreign government agencies and laboratories (\$37 million), other organizations located inside (\$779 million) or outside (\$74 million) the United States.

<sup>f</sup> Other sources of support for nonprofit institutions were unavailable by state. In 2010, total nonprofit performance is estimated at \$18.4 billion. Business provided an estimated \$1.3 billion to the nonprofit sector, and nonprofit institutions provided an estimated \$10.0 billion.

<sup>g</sup> States totals differ from U.S. totals for several reasons: (a) some R&D expenditures cannot be allocated to 1 of 50 states or the District of Columbia, (b) nonfederal sources of other nonprofit R&D expenditures could not be allocated by state, (c) state-level U&C data have not been adjusted to eliminate double counting of funds passed through from one academic institution to another, and (d) 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, Virgin Islands) and offices abroad, but excluding Puerto Rico.

NOTES: Some of the data in this table are revised from the previous version published in January 2013. Industry R&D data refer to calendar years; other R&D data 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 (NSF/NCSSES), National Patterns of R&D Resources (annual series), Business Research and Development and Innovation Survey, Higher Education R&D Survey, Survey of Federal Funds for Research and Development, Survey of State Government R&D. State GDP data are from the U.S. Bureau of Economic Analysis, <http://www.bea.gov>, accessed 27 November 2012.