Table 10. U.S. R&D expenditures, by state, performer, and source of funds: 2023

(Millions of current dollars)

State	R&D Rank[a]	All performers	Federal	FFRDCs			Business				Higher education[b]							Nonprofit	State, internal[c]	GDP	GDP rank	R&D intensity[d]	
									Paid by others														
		All funding sources	Federal	Total	Federal	Nonfederal[e]	Total	Own	Nonfederal[f]	Federal	Total	Federal	Other government	Business	Higher education	Nonprofit	Other	Total	Total			Percent	Rank[a]
U.S. total[g]	na	937,235	44,892	29,919	29,472	447	727,505	639,876	54,926	32,703	103,327	53,615	5,493	5,893	28,944	6,188	3,195	30,817	777	27,811,517	na	3.37	na
States total[h]	na	930,680	40,225	29,317	28,880	437	721,057	634,794	54,256	31,998	108,523	59,483	5,433	6,217	27,628	6,670	3,092	30,817	742	27,658,315	na	3.36	na
Alabama	26	9,049	2,071	0	0	0	5,306	2,585	120	2,601	1,579	853	76	90	476	47	37	84	9	309,544	27	2.92	17
Alaska	49	426	67	0	0	0	72	64	5	3	242	171	10	7	47	3	3	31	14	68,233	49	0.62	48
Arizona	20	11,452	119	94	93	1	9,105	7,503	876	725	1,940	828	149	51	631	132	148	191	3	530,105	17	2.16	26
Arkansas	42	1,262	46	0	0	0	707	584	50	73	458	193	61	13	161	14	15	51	*	178,115	35	0.71	47
California	1	276,850	3,119	7,874	7,762	112	248,556	231,829	9,308	7,419	13,474	7,190	549	876	2,873	1,383	602	3,730	98	3,827,007	1	7.23	4
Colorado	16	14,837	481	969	873	96	11,039	8,577	348	2,114	2,085	1,542	67	103	199	104	70	253	11	533,269	15	2.78	18
Connecticut	18	13,828	52	0	0	0	11,858	8,262	889	2,707	1,757	994	9	92	542	110	11	132	29	341,852	23	4.05	10
Delaware	29	5,981	249	0	0	0	5,267	3,450	1,809	8	462	227	17	5	193	9	10	2	2	103,333	42	5.79	6
District of Columbia	24	9,883	6,479	10	10	0	935	829	24	81	925	406	10	28	307	116	57	1,527	7	174,251	36	5.67	7
Florida	13	18,006	1,164	0	0	0	12,632	9,884	959	1,788	3,519	1,713	328	129	1,166	126	57	637	54	1,624,642	4	1.11	41
Georgia	17	14,088	261	0	0	0	10,045	8,992	903	150	3,664	2,236	205	189	864	150	19	115	3	835,755	8	1.69	34
Hawaii	44	1,073	199	0	0	0	499	470	8	21	340	216	18	4	79	22	2	35	0.6	111,740	41	0.96	43
Idaho	34	3,829	100	653	643	10	2,852	2,771	72	8	206	107	54	3	37	2	4	11	7	120,588	39	3.18	14
Illinois	10	26,094	405	1,637	1,606	31	20,070	18,885	969	216	3,476	2,116	51	198	869	200	43	506	1	1,100,794	5	2.37	21
Indiana	14	16,557	380	0	0	0	14,006	12,397	1,393	216	2,147	1,019	54	135	730	135	74	23	2	496,850	19	3.33	13
Iowa	30	5,709	98	41	40	1	4,461	4,005	448	8	1,102	534	43	55	396	38	37	6	1	253,167	32	2.26	23
Kansas	33	4,095	158	0	0	0	2,860	2,066	771	23	1,054	438	108	210	260	24	15	20	2	224,851	33	1.82	30
Kentucky	38	2,249	125	0	0	0	1,300	1,165	108	27	757	384	49	22	232	19	50	62	5	283,268	28	0.79	45
Louisiana	39	1,930	51	0	0	0	726	601	80	45	1,064	461	99	115	332	34	24	78	11	318,044	25	0.61	49
Maine	43	1,203	34	0	0	0	670	569	18	83	211	107	21	5	72	4	3	275	12	93,744	44	1.28	39
Maryland	6	31,846	13,106	1,276	1,276	0	9,623	6,385	1,307	1,930	5,988	4,722	116	167	729	234	20	1,853	1	515,036	18	6.18	5
Massachusetts	2	67,831	651	2,225	2,192	33	52,452	46,235	4,817	1,400	5,175	2,804	49	354	1,240	551	177	7,328	2	737,867	12	9.19	1
Michigan	7	30,317	237	0	0	0	26,569	23,828	2,567	174	3,369	1,746	65	156	1,213	142	47	142	*	676,031	14	4.48	8
Minnesota	19	12,226	134	0	0	0	9,169	8,398	543	227	1,366	717	84	57	405	43	60	1,553	3	483,222	20	2.53	19
Mississippi	41	1,279	251	0	0	0	415	272	40	103	608	314	122	7	149	14	2	3	2	151,512	37	0.84	44
Missouri	27	7,743	173	0	0	0	5,554	5,097	202	255	1,873	1,106	72	156	403	118	19	138	5	428,887	22	1.81	31
Montana	46	904	61	0	0	0	448	396	36	17	382	228	25	1	116	7	4	10	4	74,690	47	1.21	40
Nebraska	36	2,783	54	0	0	0	2,031	1,921	97	13	680	317	84	34	193	29	24	18	*	183,781	34	1.51	35
Nevada	37	2,500	49	0	0	0	2,113	1,781	311	20	326	144	12	5	146	6	13	12	*	253,443	31	0.99	42
New Hampshire	31	4,631	14	0	0	0	3,964	1,876	918	1,171	591	321	1	11	219	29	10	62	*	114,428	40	4.05	9
New Jersey	9	27,882	569	131	127	4	25,266	19,426	5,156	683	1,717	786	155	65	499	151	61	195	4	806,894	9	3.46	12
New Mexico	22	11,138	957	8,044	7,981	63	1,472	1,032	41	399	565	381	42	11	102	20	9	99	1	138,526	38	8.04	2
New York	4	48,071	410	691	679	13	34,402	32,234	1,741	428	9,058	4,966	304	672	2,070	657	390	3,223	286	2,182,549	3	2.20	24
North Carolina	11	24,337	429	0	0	0	18,465	13,099	5,206	159	4,345	2,545	221	388	901	227	63	1,081	16	794,838	11	3.06	15

Table 10. U.S. R&D expenditures, by state, performer, and source of funds: 2023

(Millions of current dollars)

State	R&D Rank[a]	All performers	Federal	FFRDCs			Business				Higher education[b]							Nonprofit	State, internal[c]	GDP	GDP rank	R&D intensity[d]	
									Paid by others														
		All funding sources	Federal	Total	Federal	Nonfederal[e]	Total	Own	Nonfederal[f]	Federal	Total	Federal	Other government	Business	Higher education	Nonprofit	Other	Total	Total			Percent	Rank[a]
North Dakota	45	1,063	48	0	0	0	638	610	28	1	374	121	99	19	127	2	7	2	1	77,898	45	1.36	38
Ohio	12	20,398	1,776	0	0	0	13,387	9,815	2,550	1,022	3,392	1,983	102	232	855	149	71	1,841	1	883,957	7	2.31	22
Oklahoma	35	3,551	158	0	0	0	2,562	2,478	38	45	725	306	49	33	322	13	2	105	1	255,933	30	1.39	36
Oregon	21	11,325	127	0	0	0	10,045	9,775	221	49	1,095	741	71	64	113	54	52	38	20	314,895	26	3.60	11
Pennsylvania	8	28,665	556	130	130	0	21,087	18,370	2,253	464	5,955	3,379	124	380	1,618	297	156	920	17	966,444	6	2.97	16
Rhode Island	40	1,600	299	0	0	0	619	558	32	29	514	355	7	8	94	39	11	168	*	76,314	46	2.10	28
South Carolina	32	4,546	203	245	242	3	3,061	2,720	234	107	919	447	54	52	329	23	14	85	33	332,947	24	1.37	37
South Dakota	50	409	22	0	0	0	254	208	44	1	129	62	23	2	23	4	15	4	*	74,459	48	0.55	50
Tennessee	25	9,383	456	2,019	2,001	19	4,184	3,148	897	139	1,973	1,073	46	101	658	66	28	751	*	531,247	16	1.77	32
Texas	5	45,152	250	4	3	1	35,110	29,651	2,941	2,518	8,331	3,560	1,056	560	2,361	486	307	1,455	2	2,637,238	2	1.71	33
Utah	28	6,072	391	0	0	0	4,378	4,047	268	63	1,265	771	34	61	344	39	16	31	8	283,231	29	2.14	27
Vermont	47	863	13	0	0	0	602	548	33	21	238	133	1	5	86	8	7	8	2	43,932	51	1.97	29
Virginia	15	15,900	2,762	1,812	1,786	26	8,241	6,020	637	1,584	2,297	1,061	167	102	766	114	89	767	21	722,767	13	2.20	25
Washington	3	58,155	256	1,449	1,425	25	53,321	51,947	788	586	2,160	1,421	101	84	220	279	56	942	26	801,456	10	7.26	3
West Virginia	48	731	58	12	12	*	361	339	9	12	287	138	15	5	104	4	20	8	5	101,480	43	0.72	46
Wisconsin	23	10,738	79	0	0	0	8,230	7,030	1,141	59	2,216	1,030	149	91	693	191	62	208	5	431,914	21	2.49	20
Wyoming	51	237	14	0	0	0	68	62	2	3	150	68	7	3	68	2	2	1	4	51,350	50	0.46	51
U.S. undistributed[i]	na	4,156	3,418	0	0	0	738	680	49	9	0	0	0	0	0	0	0	0	0	0	na	na	na
Puerto Rico	na	388	7	0	0	0	235	215	NA	NA	116	83	1	4	26	1	*	0	31	122,889	na	NA	na
Other[j]	na	90	47	0	0	0	0	0	0	0	43	38	3	*	1	*	0	0	na	13,549	na	na	na

* = amount < $0.5 million; na = not applicable; NA = not available.

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

[a] Ranks are based on the point estimates for state R&D and do not consider sampling error, suppression, or the undistributed R&D.
[b] State-level higher education R&D data have not been adjusted to eliminate the double counting of funds passed through from an academic institution to subrecipients (other academic institutions, businesses, nonprofit organizations, and others). At the national level, funds passed through to such subrecipients accounted for 9% of total R&D expenditures reported by higher education institutions in FY 2023.
[c] Internal performers include state agency and department employees and services performed by others in support of an internal R&D project.
[d] R&D intensity is the ratio of total R&D performed in a state to its state GDP.
[e] Nonfederal sources of R&D expenditures reported by FFRDCs in FY 2023 included state and local governments, businesses, nonprofits, and other sources.
[f] R&D paid for by nonfederal sources included funding from other companies located inside or outside the United States; U.S. state government agencies; U.S. universities, colleges, and academic researchers; foreign universities, colleges, and academic researchers; and organizations located inside or outside the United States.
[g] U.S. R&D totals as reported by the *National Patterns of R&D Resources* series, 2023–24 edition. (See tables 1–9 in this report.)
[h] The states totals differ from U.S. totals for several reasons: (1) some R&D expenditures cannot be allocated to any 1 of the 50 states or the District of Columbia; (2) data are not available to allocate the portion of business R&D performed by companies with fewer than 10 employees ($5.7 billion in 2022) by state; (3) the state-level higher education data have not been adjusted to eliminate the double counting of funds passed through to other performers; (4) state-level R&D data are not converted from fiscal years to calendar years, and (5) some state-level data may be suppressed for data quality or to avoid disclosing confidential information.
[i] R&D expenditures that could not be assigned to any of the 50 states or the District of Columbia.
[j] GDP and R&D expenditures reported for outlying areas (Guam, U.S. Virgin Islands, American Samoa) and offices abroad but excluding Puerto Rico.

Note(s):
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.

Source(s):
State GDP data from Bureau of Economic Analysis, GDP by State, https://www.bea.gov/data/gdp/gdp-state, accessed 2 December 2025; R&D data from National Center for Science and Engineering Statistics, *National Patterns of R&D Resources* (annual series).