



National Center for Science and
Engineering Statistics

Data Tables Report

Survey of State Government Research and Development: FY 2024

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General Notes

These tables present the results of the FY 2024 Survey of State Government Research and Development (R&D), conducted by the Census Bureau under an interagency agreement with the National Center for Science and Engineering Statistics (NCSES) within the U.S. National Science Foundation. The Census Bureau employed a methodology similar to one they use to collect data from state and local governments on other surveys.

The survey was distributed to departments, agencies, commissions, public authorities, and other state-run entities within the 50 states, the District of Columbia, and Puerto Rico that were considered likely to conduct or fund R&D activities. (The District of Columbia and Puerto Rico are referred to as states and treated as state equivalents throughout this report.) Respondents that did not have a qualifying R&D activity were not required to complete the questionnaire beyond a screening question. All 50 states, the District of Columbia, and Puerto Rico participated in the survey. Respondents were asked to provide statistics on their total R&D expenditures and amounts for intramural and extramural performers; the amount of intramural R&D devoted to basic research, applied research, and experimental development activities by federal and nonfederal funds; the amount for which the federal government was an original source of funds for both intramural and extramural R&D and from which federal agency the funding came; and the amount of money allocated to particular government functions. An additional question asked for expenditures on construction and acquisition of R&D facilities and major equipment. Additional questions were asked about the number of employees (researchers, technicians, and support staff) and full-time equivalent personnel for intramural R&D.

NCSES has reviewed this product for unauthorized disclosure of confidential information and approved its release (NCSES-DRN25-050).

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State government expenditures for R&D and R&D plant: FY 2024

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Table 1. State government expenditures for R&D and R&D plant, by state: FY 2024

(Dollars)

State	R&D and R&D plant expenditures	R&D expenditures ^a	R&D plant expenditures ^b
United States ^c	3,368,244,783	3,344,696,717	23,548,066
Alabama	65,159,736	65,159,736	0
Alaska	18,477,002	18,477,002	0
Arizona	17,162,845	17,162,845	0
Arkansas	13,727,825	13,727,825	0
California	800,971,651	800,971,651	0
Colorado	42,146,785	42,146,785	0
Connecticut	59,935,851	59,935,851	0
Delaware	3,706,676	3,706,676	0
District of Columbia	8,243,133	8,243,133	0
Florida	328,519,996	326,433,033	2,086,963
Georgia	28,195,324	28,195,324	0
Hawaii	8,584,413	6,358,304	2,226,109
Idaho	14,897,781	14,897,781	0
Illinois	17,571,750	17,571,750	0
Indiana	32,777,869	32,777,869	0
Iowa	14,471,132	14,471,132	0
Kansas	12,652,250	12,652,250	0
Kentucky	31,186,521	31,186,521	0
Louisiana	45,656,537	45,656,537	0
Maine	41,659,612	41,400,506	259,106
Maryland	41,003,629	41,003,629	0
Massachusetts	66,447,234	58,755,361	7,691,873
Michigan	16,827,281	16,827,281	0
Minnesota	28,917,361	28,917,361	0
Mississippi	12,365,286	12,365,286	0
Missouri	17,580,231	17,580,231	0
Montana	14,667,731	14,667,731	0
Nebraska	31,562,589	31,562,589	0
Nevada	6,911,110	6,811,110	100,000
New Hampshire	1,257,547	1,257,547	0
New Jersey	114,110,735	114,110,735	0
New Mexico	3,543,922	3,543,922	0
New York	473,772,106	472,861,004	911,102
North Carolina	40,656,480	39,656,480	1,000,000
North Dakota	39,052,516	39,052,516	0
Ohio	73,535,535	73,535,535	0
Oklahoma	31,173,972	31,173,972	0
Oregon	34,898,696	34,898,696	0
Pennsylvania	95,489,670	95,489,670	0
Rhode Island	2,668,740	2,668,740	0
South Carolina	60,272,615	60,272,615	0
South Dakota	6,019,428	5,069,428	950,000
Tennessee	93,854,627	88,292,627	5,562,000
Texas	263,798,186	263,798,186	0
Utah	11,350,593	11,350,593	0
Vermont	1,724,837	1,724,837	0
Virginia	59,264,805	57,082,897	2,181,908
Washington	78,471,606	77,892,601	579,005
West Virginia	11,946,339	11,946,339	0
Wisconsin	15,612,828	15,612,828	0
Wyoming	13,781,859	13,781,859	0
Puerto Rico ^d	48,811,278	48,065,120	746,158

^a State R&D expenditures do not include R&D plant.

^b State R&D plant expenditures include acquisition of land, facilities, major equipment, and major building renovations intended primarily for R&D use.

^c U.S. total reflects all 50 states and the District of Columbia.

^d Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 2. State government expenditures for R&D and R&D plant, by state and performer: FY 2024

(Dollars)

State	R&D expenditures ^a								R&D plant expenditures ^h		
	All R&D expenditures	Intramural performers ^b	Extramural performers ^c					All R&D plant expenditures	Intramural	Extramural	
			Total	Higher education institutions	Companies and individuals ^d	Nonprofit organizations ^e	Other governments ^f				All other ^g
United States ⁱ	3,344,696,717	811,861,515	2,532,835,202	1,234,230,762	674,010,142	440,821,007	116,971,769	66,801,522	23,548,066	6,220,542	17,327,524
Alabama	65,159,736	9,263,588	55,896,148	12,345,893	1,499,040	17,244,865	24,806,350	0	0	0	0
Alaska	18,477,002	12,699,964	5,777,038	2,111,458	2,791,580	0	500,000	374,000	0	0	0
Arizona	17,162,845	2,696,089	14,466,756	6,304,774	8,017,082	0	144,900	0	0	0	0
Arkansas	13,727,825	1,397,218	12,330,607	11,809,957	345,070	30,901	144,679	0	0	0	0
California	800,971,651	106,617,344	694,354,307	269,502,011	230,419,565	99,320,735	45,439,536	49,672,460	0	0	0
Colorado	42,146,785	11,310,318	30,836,467	10,772,853	15,111,784	999,789	3,835,524	116,517	0	0	0
Connecticut	59,935,851	29,493,426	30,442,425	1,652,321	26,405,003	0	182,750	2,202,351	0	0	0
Delaware	3,706,676	1,676,651	2,030,025	865,514	1,084,511	0	80,000	0	0	0	0
District of Columbia	8,243,133	5,288,002	2,955,131	895,111	231,770	1,377,309	450,941	0	0	0	0
Florida	326,433,033	64,369,217	262,063,816	94,151,315	1,809,791	166,021,910	80,800	0	2,086,963	1,320,817	766,146
Georgia	28,195,324	2,783,700	25,411,624	14,458,949	7,796,344	1,854,665	1,091,666	210,000	0	0	0
Hawaii	6,358,304	399,469	5,958,835	3,989,355	1,638,038	225,000	106,442	0	2,226,109	2,226,109	0
Idaho	14,897,781	4,780,811	10,116,970	6,674,708	1,197,783	628,909	1,367,967	247,603	0	0	0
Illinois	17,571,750	368,541	17,203,209	16,749,209	0	454,000	0	0	0	0	0
Indiana	32,777,869	1,001,961	31,775,908	24,393,336	7,382,572	0	0	0	0	0	0
Iowa	14,471,132	3,146,055	11,325,077	8,856,324	2,424,124	44,629	0	0	0	0	0
Kansas	12,652,250	2,583,385	10,068,865	7,537,068	184,773	50,000	2,297,024	0	0	0	0
Kentucky	31,186,521	5,621,733	25,564,788	20,475,396	4,829,598	0	259,794	0	0	0	0
Louisiana	45,656,537	21,806,594	23,849,943	16,921,908	6,760,756	0	83,640	83,639	0	0	0
Maine	41,400,506	14,933,998	26,466,508	2,977,792	18,701,707	4,617,325	169,684	0	259,106	259,106	0
Maryland	41,003,629	831,311	40,172,318	35,406,320	4,765,998	0	0	0	0	0	0
Massachusetts	58,755,361	1,649,549	57,105,812	18,760,192	32,033,568	1,835,325	0	4,476,727	7,691,873	100,000	7,591,873
Michigan	16,827,281	190,798	16,636,483	12,409,282	879,775	579,487	2,767,939	0	0	0	0
Minnesota	28,917,361	3,926,669	24,990,692	16,559,360	5,025,803	149,555	3,255,974	0	0	0	0
Mississippi	12,365,286	3,023,466	9,341,820	5,976,941	264,176	0	3,100,703	0	0	0	0
Missouri	17,580,231	4,344,942	13,235,289	10,350,386	2,668,221	100,148	116,534	0	0	0	0
Montana	14,667,731	4,810,365	9,857,366	8,862,320	37,753	585,793	371,500	0	0	0	0
Nebraska	31,562,589	802,690	30,759,899	27,318,591	3,318,073	39,422	48,200	35,613	0	0	0
Nevada	6,811,110	642,255	6,168,855	3,835,551	40,368	0	2,292,936	0	100,000	0	100,000
New Hampshire	1,257,547	88,795	1,168,752	394,554	145,627	34,957	593,614	0	0	0	0
New Jersey	114,110,735	4,104,226	110,006,509	54,094,053	1,078,900	54,722,173	111,383	0	0	0	0
New Mexico	3,543,922	1,296,000	2,247,922	1,988,385	69,125	34,882	155,530	0	0	0	0
New York	472,861,004	304,438,429	168,422,575	84,119,950	44,529,027	30,247,214	637,797	8,888,587	911,102	911,102	0
North Carolina	39,656,480	17,211,359	22,445,121	14,761,790	7,135,451	135,780	412,100	0	1,000,000	1,000,000	0
North Dakota	39,052,516	1,437,702	37,614,814	20,355,333	13,287,802	290,548	3,681,131	0	0	0	0

Table 2. State government expenditures for R&D and R&D plant, by state and performer: FY 2024

(Dollars)

State	R&D expenditures ^a								R&D plant expenditures ^h		
	All R&D expenditures	Intramural performers ^b	Extramural performers ^c					All R&D plant expenditures	Intramural	Extramural	
			Total	Higher education institutions	Companies and individuals ^d	Nonprofit organizations ^e	Other governments ^f				All other ^g
Ohio	73,535,535	3,342,419	70,193,116	26,851,660	42,062,666	1,134,423	144,367	0	0	0	0
Oklahoma	31,173,972	1,157,820	30,016,152	19,173,654	5,703,522	3,144,324	1,994,652	0	0	0	0
Oregon	34,898,696	14,534,155	20,364,541	11,052,350	3,472,762	3,035,196	2,804,233	0	0	0	0
Pennsylvania	95,489,670	15,446,289	80,043,381	45,509,775	879,884	33,645,222	8,500	0	0	0	0
Rhode Island	2,668,740	342,028	2,326,712	566,772	1,086,473	580,000	93,467	0	0	0	0
South Carolina	60,272,615	37,802,089	22,470,526	6,300,865	793,300	14,257,246	625,090	494,025	0	0	0
South Dakota	5,069,428	319,204	4,750,224	3,413,940	1,039,187	72,097	225,000	0	950,000	0	950,000
Tennessee	88,292,627	0	88,292,627	16,698,320	69,825,540	1,318,767	450,000	0	5,562,000	0	5,562,000
Texas	263,798,186	1,529,174	262,269,012	196,749,730	63,778,677	590,168	1,150,437	0	0	0	0
Utah	11,350,593	8,312,136	3,038,457	1,671,526	868,740	0	498,191	0	0	0	0
Vermont	1,724,837	1,298,300	426,537	238,443	188,094	0	0	0	0	0	0
Virginia	57,082,897	19,597,013	37,485,884	24,221,300	10,741,915	269,615	2,253,054	0	2,181,908	403,408	1,778,500
Washington	77,892,601	42,774,429	35,118,172	18,928,050	10,747,405	873,863	4,568,854	0	579,005	0	579,005
West Virginia	11,946,339	4,775,295	7,171,044	6,403,396	24,000	5,000	738,648	0	0	0	0
Wisconsin	15,612,828	5,361,683	10,251,145	5,014,324	2,385,256	202,139	2,649,426	0	0	0	0
Wyoming	13,781,859	4,232,861	9,548,998	2,798,397	6,502,163	67,626	180,812	0	0	0	0
Puerto Rico ^j	48,065,120	34,169,608	13,895,512	6,092,033	4,147,021	0	3,656,458	0	746,158	698,801	47,357

^a R&D expenditures does not include R&D plant.^b Intramural performers includes a department's or agency's own employees who perform R&D and services performed by others in support of an internal R&D project.^c Extramural performers refers to those outside the department or agency who perform R&D.^d Companies and individuals includes individuals under contract for research projects.^e Nonprofit organizations includes foundations.^f Other governments includes federal government departments and agencies; other departments or agencies within the state; other state governments; and county, city, special district, or regional local governments.^g All other extramural performers includes all performers not elsewhere classified.^h R&D plant expenditures includes acquisition of land, facilities, major equipment, and major building renovations intended primarily for R&D use.ⁱ U.S. total reflects all 50 states and the District of Columbia.^j Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Source(s):**

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 3. State government expenditures for R&D, by state: FYs 2006–24

(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
United States ^a	1,059,104,585	1,161,477,543	NA	1,616,483,243	1,756,297,891	1,990,338,324	2,042,260,292	2,028,219,263	1,905,585,762	2,265,232,945	2,314,376,833	2,467,761,297	2,530,723,104	2,412,042,977	2,434,176,595	2,518,672,856	2,644,200,416	3,023,787,237	3,344,696,717
Alabama	7,269,319	9,065,725	NA	12,929,167	15,113,917	19,684,063	17,352,984	13,292,741	18,532,534	24,486,963	24,798,503	25,768,709	21,652,816	19,763,230	25,695,555	29,812,345	88,219,991	83,778,649	65,159,736
Alaska	10,019,060	9,526,100	NA	7,741,467	9,274,800	11,349,400	5,467,944	6,689,384	12,031,675	11,258,203	10,072,650	9,198,095	10,811,808	12,502,109	15,193,507	19,671,388	17,157,228	19,451,112	18,477,002
Arizona	37,151,471	20,442,635	NA	9,363,943	17,682,315	18,626,577	22,809,895	27,810,970	18,820,149	14,942,124	15,679,948	14,008,740	12,937,292	17,332,044	16,010,502	15,011,508	7,946,421	14,011,612	17,162,845
Arkansas	4,869,648	7,658,199	NA	11,465,214	14,446,084	14,705,327	15,518,374	16,518,947	14,994,903	16,642,711	17,242,823	15,891,579	16,325,049	21,098,863	19,921,168	9,908,767	9,759,708	9,513,651	13,727,825
California	145,880,736	120,641,324	NA	299,929,949	328,982,383	407,616,001	401,522,758	346,942,036	356,158,885	568,971,595	547,188,835	485,647,081	633,060,621	526,918,585	533,900,597	520,234,299	490,081,806	594,541,351	800,971,651
Colorado	8,997,236	11,924,981	NA	14,849,581	20,828,274	18,141,931	14,928,809	14,471,683	15,745,589	16,321,056	16,647,592	25,575,648	30,640,420	36,586,577	34,365,638	38,436,248	37,073,342	39,665,229	42,146,785
Connecticut	19,209,064	29,285,710	NA	28,559,052	40,065,786	39,192,091	40,017,523	41,023,368	47,405,244	55,816,528	49,460,236	55,586,487	54,492,430	57,241,037	58,810,853	55,050,702	60,578,799	55,924,506	59,935,851
Delaware	2,812,102	2,611,108	NA	1,683,562	2,389,720	2,609,902	4,635,720	4,729,141	2,243,868	2,199,635	2,694,787	3,267,034	3,856,775	3,826,318	3,598,156	3,338,773	3,446,375	3,584,063	3,706,676
District of Columbia	1,173,076	2,009,000	NA	487,411	696,198	1,221,108	2,018,447	1,848,800	3,136,271	3,216,073	4,059,615	3,724,444	4,632,564	4,222,412	5,860,668	8,128,666	10,560,754	10,563,918	8,243,133
Florida	42,329,624	51,968,573	NA	66,513,756	120,848,726	150,764,438	136,706,540	118,781,266	157,004,903	191,598,669	156,057,854	201,901,742	186,499,418	170,508,724	184,600,202	178,360,429	180,145,644	222,882,689	326,433,033
Georgia	10,620,188	4,886,946	NA	6,662,887	8,923,795	11,690,663	12,820,412	12,697,846	11,776,221	10,052,848	13,093,428	14,043,200	18,120,602	18,875,484	15,877,238	18,798,826	24,988,379	20,739,193	28,195,324
Hawaii	12,067,849	22,643,330	NA	13,976,364	14,233,186	13,103,983	11,145,520	13,094,794	13,125,455	11,520,961	18,032,316	11,414,756	12,981,754	7,325,591	11,122,545	10,315,823	6,337,851	5,280,407	6,358,304
Idaho	2,280,873	2,739,006	NA	8,552,058	9,059,568	9,366,052	11,785,529	12,929,174	12,862,935	12,935,976	14,501,235	15,029,122	15,690,791	17,828,263	21,882,976	18,210,054	20,444,262	18,670,602	14,897,781
Illinois	37,184,281	28,372,676	NA	9,570,893	16,553,689	17,207,125	17,859,438	17,999,229	24,988,306	30,817,406	19,774,448	18,582,210	17,501,801	17,548,556	16,055,917	32,739,430	32,230,820	45,892,027	17,571,750
Indiana	6,220,575	40,534,381	NA	47,549,928	8,444,832	6,983,364	7,667,988	10,167,120	23,590,723	9,987,058	13,279,466	16,966,067	19,814,418	12,357,151	9,591,408	10,485,205	12,104,856	24,179,311	32,777,869
Iowa	13,564,062	6,790,053	NA	37,976,643	12,950,176	36,992,222	16,147,249	19,365,308	10,357,010	11,277,534	12,296,647	9,343,267	9,710,381	9,386,675	11,877,131	10,579,028	10,636,720	10,137,542	14,471,132
Kansas	14,348,384	11,752,696	NA	12,305,385	6,509,225	6,635,626	6,160,680	5,708,223	5,326,455	6,462,317	7,385,081	10,358,152	14,274,887	12,355,458	13,152,904	15,002,554	17,633,236	10,389,303	12,652,250
Kentucky	17,558,997	11,960,634	NA	13,938,134	20,410,096	20,498,849	19,886,257	19,751,055	14,556,867	25,794,534	30,660,613	30,443,216	22,452,966	26,668,173	16,843,103	18,650,568	23,308,837	26,596,145	31,186,521
Louisiana	11,216,568	6,587,314	NA	8,285,478	9,165,144	14,979,079	18,143,396	15,713,110	18,778,159	32,175,199	27,268,166	41,455,247	37,057,152	35,142,225	31,965,852	32,115,461	31,843,839	31,663,714	45,656,537
Maine	17,509,051	27,525,552	NA	6,400,019	8,847,471	9,918,765	7,094,736	6,109,793	6,857,948	12,609,815	11,429,706	22,652,044	15,991,134	32,592,625	29,035,990	32,392,463	24,812,470	47,576,007	41,400,506
Maryland	24,945,119	40,298,691	NA	21,093,331	22,825,402	20,084,540	21,890,225	29,467,445	29,981,260	24,852,978	26,447,700	29,520,356	30,959,732	29,107,768	33,407,022	28,212,493	31,280,581	46,489,603	41,003,629
Massachusetts	10,729,419	5,600,189	NA	3,290,198	4,884,430	4,878,927	3,918,500	4,590,424	18,259,928	22,664,539	23,432,991	27,737,023	23,000,903	31,965,439	31,700,411	23,307,621	23,616,423	48,424,086	58,755,361
Michigan	75,016,589	32,849,159	NA	8,630,209	9,469,440	9,802,873	12,557,954	12,830,423	12,252,555	12,675,635	17,120,981	16,946,986	7,689,982	8,023,318	11,191,816	29,718,391	30,525,914	22,654,435	16,827,281
Minnesota	6,219,201	10,529,048	NA	16,655,913	12,212,546	11,653,327	11,524,686	14,855,954	19,378,825	21,455,746	22,861,457	18,344,346	18,502,324	20,150,907	20,511,698	22,483,420	25,093,959	22,769,570	28,917,361
Mississippi	2,744,882	7,343,892	NA	3,623,953	7,168,109	7,420,851	6,260,080	4,863,312	1,313,376	780,616	2,339,335	4,269,574	9,205,489	12,170,278	10,268,396	11,143,362	9,788,541	10,030,897	12,365,286
Missouri	18,465,303	15,567,277	NA	15,797,247	13,329,841	13,658,961	13,041,450	13,051,110	15,065,613	16,673,693	14,750,488	15,064,354	16,341,267	15,055,845	14,826,364	14,009,154	12,430,684	17,272,090	17,580,231
Montana	8,606,319	8,200,230	NA	7,200,442	7,543,860	6,474,190	6,841,897	6,570,018	10,428,010	10,362,726	17,990,469	18,230,275	8,867,208	8,794,140	13,131,022	8,447,295	9,752,216	9,956,071	14,667,731
Nebraska	5,602,163	4,043,480	NA	19,415,644	19,232,691	19,561,651	22,167,304	23,274,333	23,421,771	22,475,420	25,143,505	22,608,157	26,564,385	28,167,688	32,423,818	31,337,947	32,687,157	29,145,638	31,562,589
Nevada	1,397,463	1,748,776	NA	1,510,607	1,081,407	1,440,630	1,166,762	1,640,871	3,438,157	3,107,166	5,716,452	10,996,862	7,283,496	7,871,899	4,764,898	4,222,929	3,643,395	4,072,717	6,811,110
New Hampshire	2,040,544	1,685,178	NA	1,860,269	1,804,156	1,921,421	2,241,149	1,788,396	1,448,090	1,607,080	1,520,798	1,924,282	8,269,040	8,432,696	8,221,518	8,675,207	9,222,505	2,521,016	1,257,547
New Jersey	25,900,482	19,981,741	NA	25,146,838	38,639,539	27,868,781	29,818,258	34,413,516	30,384,821	33,756,028	30,483,309	37,415,121	51,295,009	23,886,758	23,754,925	59,793,415	65,020,915	99,832,733	114,110,735
New Mexico	3,105,000	672,921	NA	1,655,529	1,422,955	1,821,583	1,793,561	2,015,961	4,175,116	4,084,876	4,772,978	4,474,459	3,360,115	3,585,944	5,227,599	3,054,817	3,456,227	2,337,788	3,543,922
New York	103,597,135	128,361,166	NA	375,422,634	391,259,392	405,346,642	382,226,391	382,143,207	377,015,244	370,585,484	404,833,101	434,294,353	450,161,190	448,501,735	453,807,331	417,246,309	506,283,025	486,576,578	472,861,004
North Carolina	14,344,310	37,607,109	NA	41,404,202	27,342,380	29,611,785	32,529,885	30,649,974	22,614,350	34,502,384	37,142,044	32,513,098	33,719,142	32,754,090	35,892,185	36,870,713	38,818,576	36,106,613	39,656,480
North Dakota	21,062,090	9,908,722	NA	16,415,807	6,352,675	8,072,257	6,034,991	7,364,184	10,784,572	9,611,936	14,742,309	14,851,522	16,108,458	12,140,358	18,065,251	35,139,613	17,874,336	25,815,688	39,052,516
Ohio	55,068,629	114,086,509	NA	121,394,963	125,120,668	159,322,228	153,382,845	188,311,926	94,882,275	94,299,294	99,329,386	108,542,077	93,189,867	80,148,377	76,169,661	55,336,431	70,471,571	117,471,257	73,535,535
Oklahoma	8,922,036	10,731,050	NA	15,930,878	21,226,236	20,304,740	23,133,843	28,224,758	30,473,702	29,952,934	33,460,991	33,512,333	26,848,844	29,607,888	30,050,338	55,989,692	27,646,238	28,880,310	31,173,972

Table 3. State government expenditures for R&D, by state: FYs 2006–24

(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oregon	7,382,722	7,389,914	NA	11,120,140	18,013,730	20,001,272	22,003,035	23,083,506	29,679,288	31,990,073	24,831,090	30,549,080	31,254,046	44,222,659	30,486,113	37,419,218	33,801,166	40,257,488	34,898,696
Pennsylvania	117,320,158	103,973,448	NA	95,896,714	87,913,796	75,491,812	80,600,099	66,429,400	35,432,244	75,024,127	73,188,503	92,505,396	101,610,656	85,050,999	103,098,941	93,621,093	88,557,830	99,487,575	95,489,670
Rhode Island	150,000	1,771,949	NA	1,877,724	1,461,239	1,947,727	2,028,402	1,640,778	3,225,472	2,594,978	3,372,460	3,791,008	3,364,527	5,512,380	4,594,040	10,226,630	8,361,413	4,635,868	2,668,740
South Carolina	22,427,746	31,969,826	NA	28,599,885	71,290,446	84,692,653	72,467,293	47,732,177	22,311,739	27,419,285	30,512,353	34,686,268	34,291,703	46,983,243	46,800,816	44,557,581	50,056,315	53,419,952	60,272,615
South Dakota	5,791,586	5,473,603	NA	4,430,602	3,762,637	3,629,155	3,447,633	3,660,854	5,067,005	4,211,838	4,511,516	3,665,413	4,137,189	2,953,214	2,913,274	3,193,289	4,595,753	5,191,666	5,069,428
Tennessee	5,355,000	4,549,998	NA	3,752,587	1,064,262	3,642,490	4,293,334	3,430,476	4,363,565	3,828,567	7,040,422	9,433,779	9,231,710	7,439,395	7,039,923	9,587,206	38,959,330	67,457,255	88,292,627
Texas	28,019,645	29,650,947	NA	49,381,346	35,163,655	47,372,367	146,989,380	185,199,541	162,287,552	185,094,332	255,132,755	294,485,067	228,578,310	233,030,466	205,206,977	255,731,862	247,609,284	282,261,790	263,798,186
Utah	3,214,170	2,752,228	NA	26,442,711	30,812,205	34,418,764	47,388,335	53,636,842	36,466,790	38,168,197	31,465,580	32,673,333	27,593,284	7,985,508	9,205,399	8,316,189	8,837,531	10,119,476	11,350,593
Vermont	1,680,533	1,529,805	NA	738,707	1,665,079	1,711,673	1,653,315	1,827,562	2,039,520	2,199,082	1,041,249	1,140,267	1,841,754	2,730,591	1,669,900	1,535,157	1,460,157	2,833,206	1,724,837
Virginia	11,579,623	15,486,526	NA	22,662,519	28,961,491	29,376,417	33,295,328	36,017,935	38,439,643	43,645,755	33,556,333	29,624,941	30,596,207	29,951,353	35,552,565	44,445,646	40,253,504	57,260,560	57,082,897
Washington	22,834,218	23,333,431	NA	16,284,702	38,073,580	45,498,369	49,553,326	47,122,876	40,357,249	38,002,018	35,183,195	42,969,819	37,093,288	51,963,060	57,239,095	56,690,210	60,886,219	60,479,947	77,892,601
West Virginia	6,024,577	22,179,830	NA	10,357,006	23,867,732	35,475,338	33,580,156	19,027,684	11,216,042	10,840,665	8,233,431	11,193,344	10,492,922	11,068,061	10,862,315	9,013,091	9,180,282	8,731,717	11,946,339
Wisconsin	10,949,155	13,774,600	NA	24,942,415	12,435,548	21,128,936	17,861,390	21,212,446	14,643,835	14,517,671	13,442,158	13,300,449	15,879,688	17,473,890	14,340,014	15,239,075	19,060,693	16,366,530	15,612,828
Wyoming	6,326,604	19,500,357	NA	4,806,630	5,471,379	5,419,398	6,879,286	6,497,386	6,444,053	5,160,617	5,425,545	5,641,115	4,886,290	5,232,930	6,391,060	6,865,263	5,657,338	9,886,086	13,781,859
Puerto Rico ^b	1,458,790	2,326,241	NA	9,316,754	4,031,391	4,217,869	7,625,412	7,949,965	6,569,500	5,673,544	na	na	na	na	na	na	17,058,786	47,543,226	48,065,120

na = not applicable; did not report to survey. NA = not available; survey was not conducted for FY 2008.

^a U.S. total reflects all 50 states and the District of Columbia.^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Note(s):**

State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

Table 4. State government expenditures for R&D for all performers, by state and source of funds: FY 2024

(Dollars)

State	All R&D expenditures	Source of funds	
		Federal government	State and all others ^a
United States ^b	3,344,696,717	726,727,808	2,617,968,909
Alabama	65,159,736	14,276,152	50,883,584
Alaska	18,477,002	10,267,681	8,209,321
Arizona	17,162,845	4,491,477	12,671,368
Arkansas	13,727,825	4,305,361	9,422,464
California	800,971,651	22,058,608	778,913,043
Colorado	42,146,785	6,746,764	35,400,021
Connecticut	59,935,851	27,568,730	32,367,121
Delaware	3,706,676	1,897,241	1,809,435
District of Columbia	8,243,133	6,289,673	1,953,460
Florida	326,433,033	27,258,970	299,174,063
Georgia	28,195,324	22,866,593	5,328,731
Hawaii	6,358,304	2,839,012	3,519,292
Idaho	14,897,781	7,184,984	7,712,797
Illinois	17,571,750	7,426,437	10,145,313
Indiana	32,777,869	20,284,519	12,493,350
Iowa	14,471,132	7,697,318	6,773,814
Kansas	12,652,250	4,104,543	8,547,707
Kentucky	31,186,521	12,003,764	19,182,757
Louisiana	45,656,537	29,642,130	16,014,407
Maine	41,400,506	20,973,235	20,427,271
Maryland	41,003,629	1,715,671	39,287,958
Massachusetts	58,755,361	15,112,369	43,642,992
Michigan	16,827,281	7,824,233	9,003,048
Minnesota	28,917,361	11,049,227	17,868,134
Mississippi	12,365,286	10,091,295	2,273,991
Missouri	17,580,231	5,842,791	11,737,440
Montana	14,667,731	10,220,896	4,446,835
Nebraska	31,562,589	4,858,608	26,703,981
Nevada	6,811,110	3,996,024	2,815,086
New Hampshire	1,257,547	880,500	377,047
New Jersey	114,110,735	7,255,307	106,855,428
New Mexico	3,543,922	2,759,937	783,985
New York	472,861,004	182,565,089	290,295,915
North Carolina	39,656,480	10,675,391	28,981,089
North Dakota	39,052,516	3,282,943	35,769,573
Ohio	73,535,535	7,912,257	65,623,278
Oklahoma	31,173,972	8,868,965	22,305,007
Oregon	34,898,696	15,017,978	19,880,718
Pennsylvania	95,489,670	10,770,884	84,718,786
Rhode Island	2,668,740	1,468,800	1,199,940
South Carolina	60,272,615	33,026,390	27,246,225
South Dakota	5,069,428	1,483,401	3,586,027
Tennessee	88,292,627	14,928,353	73,364,274
Texas	263,798,186	25,352,494	238,445,692
Utah	11,350,593	1,631,793	9,718,800
Vermont	1,724,837	1,510,067	214,770
Virginia	57,082,897	22,432,942	34,649,955
Washington	77,892,601	18,223,736	59,668,865
West Virginia	11,946,339	5,973,233	5,973,106
Wisconsin	15,612,828	11,746,392	3,866,436
Wyoming	13,781,859	8,066,650	5,715,209

Table 4. State government expenditures for R&D for all performers, by state and source of funds: FY 2024

(Dollars)

State	All R&D expenditures	Source of funds	
		Federal government	State and all others ^a
Puerto Rico ^c	48,065,120	25,382,432	22,682,688

^a State and all others includes companies; nonprofit organizations; other state governments; and city, county, regional, or other local governments.

^b U.S. total reflects all 50 states and the District of Columbia.

^c Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 5. State government expenditures for R&D for intramural performers, by state and source of funds: FY 2024

(Dollars)

State	R&D expenditures for intramural performers	Source of funds					
		Federal government	Own state government	Other nonfederal governments	Nonprofit organizations	Businesses and individuals	Higher education institutions
United States ^a	811,861,515	339,587,256	414,911,127	14,120,855	20,147,785	19,246,148	3,848,344
Alabama	9,263,588	5,558,373	2,578,334	1,775	218,044	0	907,062
Alaska	12,699,964	5,903,653	4,890,861	1,905,450	0	0	0
Arizona	2,696,089	2,192,449	503,640	0	0	0	0
Arkansas	1,397,218	1,208,364	188,854	0	0	0	0
California	106,617,344	5,627,942	100,788,690	200,712	0	0	0
Colorado	11,310,318	2,772,233	8,503,556	0	0	34,529	0
Connecticut	29,493,426	13,477,159	16,016,267	0	0	0	0
Delaware	1,676,651	426,834	1,249,817	0	0	0	0
District of Columbia	5,288,002	4,267,155	1,020,847	0	0	0	0
Florida	64,369,217	18,447,616	40,884,360	4,927,897	105,778	0	3,566
Georgia	2,783,700	2,430,451	49,884	0	0	303,365	0
Hawaii	399,469	399,469	0	0	0	0	0
Idaho	4,780,811	3,177,276	998,623	604,912	0	0	0
Illinois	368,541	0	368,541	0	0	0	0
Indiana	1,001,961	745,859	256,102	0	0	0	0
Iowa	3,146,055	1,540,983	1,486,072	0	119,000	0	0
Kansas	2,583,385	1,481,225	1,007,129	0	0	0	95,031
Kentucky	5,621,733	3,826,727	1,795,006	0	0	0	0
Louisiana	21,806,594	18,661,515	3,145,079	0	0	0	0
Maine	14,933,998	6,345,174	7,214,389	0	772,772	0	601,663
Maryland	831,311	348,636	482,675	0	0	0	0
Massachusetts	1,649,549	655,313	694,236	300,000	0	0	0
Michigan	190,798	48,523	142,275	0	0	0	0
Minnesota	3,926,669	1,570,703	2,355,966	0	0	0	0
Mississippi	3,023,466	847,027	352,022	1,824,417	0	0	0
Missouri	4,344,942	1,770,172	2,557,770	0	17,000	0	0
Montana	4,810,365	3,131,915	1,675,285	0	3,165	0	0
Nebraska	802,690	409,086	393,604	0	0	0	0
Nevada	642,255	361,782	280,473	0	0	0	0
New Hampshire	88,795	71,036	17,759	0	0	0	0
New Jersey	4,104,226	742,040	3,362,186	0	0	0	0
New Mexico	1,296,000	1,025,500	270,500	0	0	0	0
New York	304,438,429	153,766,985	110,974,066	10,919	18,674,693	18,908,254	2,103,512
North Carolina	17,211,359	1,758,348	15,453,011	0	0	0	0
North Dakota	1,437,702	822,184	615,518	0	0	0	0
Ohio	3,342,419	514,089	2,828,330	0	0	0	0
Oklahoma	1,157,820	801,917	355,903	0	0	0	0
Oregon	14,534,155	10,516,643	3,967,376	50,136	0	0	0
Pennsylvania	15,446,289	8,204,747	7,185,542	56,000	0	0	0
Rhode Island	342,028	322,028	20,000	0	0	0	0
South Carolina	37,802,089	24,564,021	13,050,045	50,513	0	0	137,510
South Dakota	319,204	217,894	17,314	0	83,996	0	0
Tennessee	0	0	0	0	0	0	0
Texas	1,529,174	1,104,565	424,609	0	0	0	0
Utah	8,312,136	535,873	7,776,263	0	0	0	0
Vermont	1,298,300	1,177,674	120,626	0	0	0	0
Virginia	19,597,013	7,107,409	12,489,604	0	0	0	0
Washington	42,774,429	11,619,372	26,813,596	4,188,124	153,337	0	0

Table 5. State government expenditures for R&D for intramural performers, by state and source of funds: FY 2024

(Dollars)

State	R&D expenditures for intramural performers	Source of funds					
		Federal government	Own state government	Other nonfederal governments	Nonprofit organizations	Businesses and individuals	Higher education institutions
West Virginia	4,775,295	1,542,986	3,232,309	0	0	0	0
Wisconsin	5,361,683	4,552,004	809,679	0	0	0	0
Wyoming	4,232,861	986,327	3,246,534	0	0	0	0
Puerto Rico ^b	34,169,608	18,890,314	15,279,294	0	0	0	0

^a U.S. total reflects all 50 states and the District of Columbia.^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Note(s):**

Intramural performers includes a department's or agency's own employees who perform R&D and services performed by others in support of an internal R&D project.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 6. State government expenditures for R&D by intramural performers, by state: FYs 2006–24

(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
United States ^a	278,804,902	337,554,442	NA	544,768,301	666,474,213	715,619,606	671,902,599	657,514,410	582,262,610	585,025,545	604,530,902	638,536,132	630,788,241	660,308,336	694,421,461	675,326,278	695,882,555	741,613,066	811,861,515
Alabama	4,339,426	5,786,160	NA	9,138,896	9,749,394	14,250,319	8,612,718	9,160,769	4,589,652	6,167,637	11,438,924	13,806,194	11,465,666	7,412,961	13,704,571	17,295,499	12,081,222	8,885,851	9,263,588
Alaska	5,356,472	7,541,700	NA	6,387,016	7,885,200	9,004,800	5,346,296	5,963,195	9,399,991	9,464,543	7,791,729	6,608,776	7,376,047	8,920,501	10,745,451	13,677,498	11,600,345	14,118,929	12,699,964
Arizona	8,576,436	6,833,220	NA	6,869,506	7,545,171	7,410,362	13,303,829	16,141,770	8,953,596	8,268,168	5,938,520	3,742,746	1,618,025	761,096	1,562,435	3,522,494	2,039,798	2,901,013	2,696,089
Arkansas	1,073,285	420,340	NA	467,767	5,406,407	6,077,854	3,006,648	2,992,079	708,544	660,969	576,503	747,577	202,770	66,099	189,018	170,429	220,653	391,998	1,397,218
California	35,104,016	29,987,603	NA	48,407,683	59,744,655	69,864,773	59,490,293	57,262,060	53,984,295	55,223,244	68,155,837	80,243,824	80,750,013	75,581,146	83,587,677	83,800,192	87,712,398	97,801,248	106,617,344
Colorado	6,594,969	7,004,927	NA	9,395,554	7,108,498	6,942,978	8,170,313	8,248,707	8,178,672	8,467,517	7,733,398	9,193,948	9,119,788	11,900,858	12,047,699	11,957,421	8,651,485	10,548,105	11,310,318
Connecticut	14,519,731	13,979,139	NA	12,571,612	22,561,170	23,573,706	24,039,989	25,612,853	20,533,902	21,885,609	20,919,179	21,181,282	22,502,799	24,679,641	25,868,030	27,217,883	28,200,758	29,335,244	29,493,426
Delaware	1,207,011	2,011,600	NA	1,021,115	1,968,736	2,049,018	2,181,693	2,514,545	1,888,698	1,709,791	1,671,853	1,867,003	2,532,597	2,558,634	2,312,965	1,894,419	1,568,167	1,600,464	1,676,651
District of Columbia	302,000	2,009,000	NA	0	189,691	220,886	354,612	435,813	1,444,007	1,541,038	1,379,944	1,525,542	2,021,912	1,888,642	2,510,818	3,705,656	4,320,240	7,041,016	5,288,002
Florida	10,013,516	9,073,670	NA	10,356,355	50,546,200	48,327,623	48,910,954	47,372,831	44,017,593	45,015,557	44,254,939	44,546,892	51,598,115	50,604,692	52,430,371	50,793,339	51,395,556	53,921,437	64,369,217
Georgia	861,231	60,551	NA	3,500,000	3,200,000	3,600,000	4,145,859	2,041,101	1,766,014	1,709,229	2,303,714	2,608,350	2,345,600	3,539,835	2,648,196	2,016,590	2,884,258	2,930,709	2,783,700
Hawaii	2,329,186	7,617,547	NA	3,268,044	3,049,593	3,667,047	4,267,994	4,320,992	1,038,877	1,659,573	2,412,169	1,406,938	213,163	257,625	6,531,042	2,311,413	201,790	628,842	399,469
Idaho	257,926	1,127,217	NA	4,397,225	4,616,645	4,430,450	7,179,818	7,836,031	6,783,779	6,469,463	6,576,466	6,591,001	6,172,889	6,709,727	7,967,885	7,124,769	7,278,248	7,349,090	4,780,811
Illinois	17,617,332	18,022,400	NA	1,304,428	1,948,263	2,049,697	1,618,580	1,663,080	1,678,403	1,550,890	1,251,225	1,251,225	1,171,225	1,171,225	626,262	554,067	554,067	554,067	368,541
Indiana	2,364,046	36,349,207	NA	941,982	975,000	975,000	870,605	1,022,370	675,629	657,583	619,999	809,062	243,160	167,703	92,268	470,344	660,237	1,902,083	1,001,961
Iowa	5,754,032	363,153	NA	953,909	625,480	1,260,999	4,376,976	5,603,029	3,884,026	3,696,335	3,796,688	3,590,701	2,897,292	3,279,267	2,959,513	3,091,936	2,912,086	1,366,776	3,146,055
Kansas	2,137,741	1,636,784	NA	1,598,127	1,448,133	1,501,433	1,484,948	1,577,722	1,427,786	1,333,800	2,817,975	2,210,187	2,089,000	998,463	999,734	1,294,643	1,500,273	2,166,223	2,583,385
Kentucky	3,702,849	998,840	NA	6,241,919	1,635,906	2,137,354	2,893,270	2,962,965	454,669	734,444	1,547,014	4,414,627	2,135,186	2,038,186	1,752,643	1,946,017	4,434,431	4,842,218	5,621,733
Louisiana	7,530,897	4,259,147	NA	5,014,571	6,523,169	7,493,894	4,884,739	5,081,221	8,785,247	9,325,390	12,536,416	10,944,624	13,442,234	10,974,134	10,774,371	9,555,840	10,033,831	10,567,296	21,806,594
Maine	0	330,000	NA	1,566,832	1,542,846	1,883,123	1,071,798	1,154,177	2,048,918	2,911,504	2,970,210	2,999,641	2,802,497	3,051,263	4,038,999	10,370,488	12,208,306	12,319,129	14,933,998
Maryland	6,086,183	16,726,066	NA	5,683,023	1,962,000	1,928,700	513,661	572,247	906,472	846,300	327,732	1,077,744	2,744,392	989,368	659,436	878,718	864,022	622,465	831,311
Massachusetts	3,623,773	922,416	NA	831,202	862,331	785,738	917,177	1,083,202	10,934,792	11,254,392	12,613,509	9,071,354	8,362,815	8,798,238	9,681,990	1,208,652	1,636,998	1,690,736	1,649,549
Michigan	1,527,314	1,373,780	NA	1,800,696	1,688,930	1,509,097	2,277,811	2,651,063	626,768	702,187	1,249,998	1,287,328	0	336,227	527,096	237,018	254,848	143,576	190,798
Minnesota	2,132,277	2,904,128	NA	1,974,655	1,507,582	1,509,585	1,471,472	1,007,122	2,284,757	2,828,032	2,195,086	1,481,345	672,674	2,027,757	2,583,398	2,458,490	3,038,564	3,138,073	3,926,669
Mississippi	1,484,612	5,728,190	NA	2,884,940	3,933,046	4,028,133	1,890,566	2,094,537	510,446	252,513	190,826	1,192,864	1,791,073	1,755,759	1,236,050	2,005,582	2,820,168	2,030,108	3,023,466
Missouri	12,171,794	9,815,796	NA	9,289,817	8,065,733	7,546,964	7,274,626	6,696,607	6,922,875	7,284,056	7,900,361	7,593,953	7,809,676	8,242,424	8,112,983	6,455,476	4,338,958	4,589,925	4,344,942
Montana	2,404,391	1,007,000	NA	1,304,712	1,604,601	1,694,519	1,669,440	2,035,229	2,238,501	2,273,458	2,675,607	3,759,869	2,684,109	2,993,604	6,104,413	2,846,129	3,400,729	3,806,428	4,810,365
Nebraska	436,000	291,000	NA	125,000	327,845	320,392	303,472	368,009	769,135	534,852	465,732	373,809	6,000	17,116	2,342,783	2,128,727	2,114,433	74,500	802,690
Nevada	323,042	581,534	NA	342,744	295,579	364,476	376,301	366,804	9,927	3,893	5,000	3,950	140,823	184,774	188,146	237,064	208,642	256,192	642,255
New Hampshire	424,762	167,708	NA	1,018,069	502,616	591,869	760,392	683,882	84,253	82,781	367,680	460,000	151,247	131,672	49,309	27,186	136,953	89,546	88,795
New Jersey	5,483,784	5,093,922	NA	4,278,027	3,407,529	2,980,802	2,952,996	2,920,843	1,814,000	1,864,000	1,703,700	1,800,400	1,691,900	2,796,233	2,624,342	3,006,539	3,317,395	3,917,853	4,104,226
New Mexico	3,000,000	576,921	NA	535,531	560,955	494,193	671,314	768,893	2,462,904	2,539,877	1,390,991	860,774	1,240,504	900,212	2,594,660	1,535,533	1,110,427	781,067	1,296,000
New York	42,047,823	31,635,352	NA	266,188,075	311,702,575	318,563,367	277,561,513	267,002,282	259,604,368	243,064,412	237,318,047	246,099,969	240,591,998	276,773,893	278,751,443	259,432,614	274,950,816	286,453,348	304,438,429
North Carolina	3,789,289	27,479,434	NA	31,451,251	18,843,326	19,478,718	20,437,242	20,501,169	14,636,872	14,929,283	17,853,240	19,865,183	19,372,111	18,400,435	17,813,294	17,422,714	17,505,611	16,335,642	17,211,359
North Dakota	762,297	500,943	NA	568,135	591,770	366,294	530,023	429,670	1,373,563	1,189,828	588,458	1,784,624	1,827,872	421,989	346,342	294,748	131,121	981,502	1,437,702
Ohio	1,515,058	283,131	NA	3,883,347	1,754,417	2,645,393	2,246,092	2,040,795	965,440	864,161	2,096,469	2,741,052	1,247,811	733,326	2,005,523	1,808,996	1,106,388	641,094	3,342,419
Oklahoma	83,333	252,516	NA	2,709,663	9,250	9,850	1,057,822	1,074,816	370,925	350,570	2,394,381	6,079,694	935,686	1,685,458	2,015,986	2,575,950	1,946,574	1,434,856	1,157,820

Table 6. State government expenditures for R&D by intramural performers, by state: FYs 2006–24

(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oregon	3,318,194	2,851,734	NA	5,768,545	14,368,928	17,063,005	18,162,372	19,524,508	15,547,309	18,022,139	10,187,622	15,646,484	16,333,562	24,761,784	15,852,036	16,083,800	16,703,743	19,770,459	14,534,155
Pennsylvania	3,310,731	4,020,292	NA	2,992,367	5,052,858	5,826,832	5,632,495	6,675,458	7,012,137	7,387,261	6,451,626	9,100,618	7,237,397	8,579,205	7,874,722	8,172,000	13,041,479	16,987,160	15,446,289
Rhode Island	0	134,200	NA	67,000	53,547	80,000	20,000	225,050	389,829	281,200	175,000	6,000	1,638,664	2,767,111	3,098,833	8,118,721	5,438,324	236,546	342,028
South Carolina	15,780,585	26,968,153	NA	24,161,908	42,554,948	52,973,299	49,917,998	37,004,464	17,374,915	22,351,601	24,854,389	25,708,598	28,354,328	28,876,294	27,894,342	27,709,617	29,595,672	32,709,409	37,802,089
South Dakota	2,318,754	3,070,095	NA	424,407	722,906	652,055	60,976	114,425	220,000	240,000	432,788	437,052	330,492	361,072	327,346	359,853	237,313	273,454	319,204
Tennessee	704,000	595,010	NA	0	0	52,129	762,313	784,848	563,092	531,871	2,731,571	2,773,520	2,321,833	1,710,689	1,607,509	1,289,255	314,273	175,000	0
Texas	5,870,258	5,496,761	NA	4,763,897	2,813,346	9,823,374	12,375,067	11,746,259	2,673,588	2,745,383	4,289,841	4,135,685	3,201,472	3,855,855	3,165,023	2,686,856	2,368,161	1,993,899	1,529,174
Utah	964,170	1,333,630	NA	10,715,649	10,150,322	10,361,727	17,654,475	17,979,931	17,924,476	18,192,260	18,167,666	18,418,869	18,236,912	5,046,202	6,070,743	5,326,711	6,375,939	7,748,094	8,312,136
Vermont	848,787	847,350	NA	738,707	1,442,023	1,543,503	1,074,198	1,160,193	534,520	555,772	368,636	250,257	560,842	681,380	633,399	596,129	1,170,646	2,163,824	1,298,300
Virginia	5,045,794	7,577,630	NA	8,242,184	6,744,260	6,567,645	8,766,523	13,046,471	10,486,612	14,607,108	13,596,149	12,312,670	12,931,846	10,733,680	12,627,565	16,183,098	15,546,707	20,744,159	19,597,013
Washington	12,187,408	12,103,757	NA	8,136,939	10,916,316	11,745,788	12,875,297	12,820,150	9,824,415	10,470,091	14,446,035	14,515,938	15,395,106	19,986,935	23,415,061	21,349,303	24,507,566	26,263,518	42,774,429
West Virginia	1,767,688	2,414,915	NA	2,555,126	7,094,173	8,130,744	4,965,278	4,764,417	2,837,135	1,893,045	2,455,891	1,723,204	2,641,834	2,867,846	3,317,637	3,378,070	3,803,985	4,773,515	4,775,295
Wisconsin	5,534,273	4,766,000	NA	5,329,091	5,060,717	6,126,083	6,896,219	7,402,664	6,279,098	6,547,800	5,783,316	4,862,108	5,270,830	5,043,609	4,674,607	4,401,850	5,209,332	5,377,653	5,361,683
Wyoming	4,216,426	4,622,873	NA	2,601,053	3,609,627	3,134,016	3,615,536	3,001,092	1,837,188	1,883,135	2,560,853	2,821,077	2,362,454	1,286,491	2,875,496	2,339,942	2,228,619	4,237,727	4,232,861
Puerto Rico ^b	1,274,358	328,664	NA	8,352,468	2,300,000	2,500,000	6,360,716	6,084,344	5,193,888	4,454,166	na	na	na	na	na	na	11,176,340	30,716,521	34,169,608

na = not applicable; did not report to survey. NA = not available; survey was not conducted for FY 2008.

^a U.S. total reflects all 50 states and the District of Columbia.^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Note(s):**

Intramural performers includes a department's or agency's own employees who perform R&D and services performed by others in support of an internal R&D project. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

Table 7. State government expenditures for intramural R&D, by state and type of R&D: FY 2024

(Dollars)

State	All intramural R&D expenditures	Type of R&D		
		Basic research	Applied research	Experimental development
United States ^a	811,861,515	145,503,537	620,190,050	46,167,928
Alabama	9,263,588	105,000	8,926,408	232,180
Alaska	12,699,964	0	10,782,738	1,917,226
Arizona	2,696,089	192,324	2,486,265	17,500
Arkansas	1,397,218	104,321	953,777	339,120
California	106,617,344	2,995,687	97,744,339	5,877,318
Colorado	11,310,318	0	11,273,584	36,734
Connecticut	29,493,426	9,786,109	19,148,954	558,363
Delaware	1,676,651	0	1,676,651	0
District of Columbia	5,288,002	4,183,769	1,053,838	50,395
Florida	64,369,217	1,368,484	61,449,273	1,551,460
Georgia	2,783,700	1,102,218	1,206,886	474,596
Hawaii	399,469	0	147,469	252,000
Idaho	4,780,811	22,176	4,758,635	0
Illinois	368,541	92,135	184,271	92,135
Indiana	1,001,961	261,433	660,528	80,000
Iowa	3,146,055	0	3,046,055	100,000
Kansas	2,583,385	731,756	1,851,629	0
Kentucky	5,621,733	0	5,621,733	0
Louisiana	21,806,594	17,725,775	4,080,819	0
Maine	14,933,998	9,748,932	4,154,233	1,030,833
Maryland	831,311	0	50,000	781,311
Massachusetts	1,649,549	203,169	1,092,479	353,901
Michigan	190,798	35,000	155,798	0
Minnesota	3,926,669	0	3,851,669	75,000
Mississippi	3,023,466	5,136	666,989	2,351,341
Missouri	4,344,942	17,000	4,102,942	225,000
Montana	4,810,365	0	4,810,365	0
Nebraska	802,690	0	746,753	55,937
Nevada	642,255	136,717	403,079	102,459
New Hampshire	88,795	0	2,500	86,295
New Jersey	4,104,226	525,974	2,999,239	579,013
New Mexico	1,296,000	0	558,915	737,085
New York	304,438,429	68,758,233	231,625,945	4,054,251
North Carolina	17,211,359	2,068,112	14,065,952	1,077,295
North Dakota	1,437,702	0	1,297,702	140,000
Ohio	3,342,419	286,919	3,055,500	0
Oklahoma	1,157,820	394,051	741,515	22,254
Oregon	14,534,155	5,324,171	6,966,553	2,243,431
Pennsylvania	15,446,289	0	131,295	15,314,994
Rhode Island	342,028	272,028	70,000	0
South Carolina	37,802,089	1,870,616	35,346,917	584,556
South Dakota	319,204	5,771	307,661	5,772
Tennessee	0	0	0	0
Texas	1,529,174	50,262	1,478,912	0
Utah	8,312,136	0	8,312,136	0
Vermont	1,298,300	0	1,298,300	0
Virginia	19,597,013	2,477,542	14,558,168	2,561,303
Washington	42,774,429	13,711,774	26,855,785	2,206,870
West Virginia	4,775,295	690,735	4,084,560	0
Wisconsin	5,361,683	0	5,361,683	0
Wyoming	4,232,861	250,208	3,982,653	0

Table 7. State government expenditures for intramural R&D, by state and type of R&D: FY 2024

(Dollars)

State	All intramural R&D expenditures	Type of R&D		
		Basic research	Applied research	Experimental development
Puerto Rico ^b	34,169,608	21,191,407	4,572,216	8,405,985

^a U.S. total reflects all 50 states and the District of Columbia.^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Source(s):**

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 8. State government expenditures for R&D, by state and function of R&D: FY 2024

(Dollars)

State	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
United States ^b	3,344,696,717	188,178,712	503,270,221	615,568,273	1,455,608,217	344,791,030	237,280,264
Alabama	65,159,736	513,012	1,556,686	45,830,380	2,463,376	5,805,616	8,990,666
Alaska	18,477,002	178,293	582,223	10,752,476	122,970	6,841,040	0
Arizona	17,162,845	1,705,901	0	2,131,091	11,719,582	1,389,618	216,653
Arkansas	13,727,825	7,349,137	0	3,181,923	0	198,644	2,998,121
California	800,971,651	12,177,438	295,872,603	70,943,128	359,744,919	53,967,136	8,266,427
Colorado	42,146,785	975,693	2,903,750	11,926,882	6,870,833	5,129,531	14,340,096
Connecticut	59,935,851	4,887,351	5,700,000	12,644,615	20,465,360	3,566,574	12,671,951
Delaware	3,706,676	0	0	2,281,072	0	1,425,604	0
District of Columbia	8,243,133	0	0	1,850,270	5,492,578	496,322	403,963
Florida	326,433,033	45,123,731	179,287	83,757,827	182,599,063	14,773,125	0
Georgia	28,195,324	2,864,387	13,101,035	3,154,472	0	9,075,430	0
Hawaii	6,358,304	929,873	673,600	1,017,703	108,900	2,937,628	690,600
Idaho	14,897,781	6,201,382	0	6,062,574	0	2,633,825	0
Illinois	17,571,750	0	0	4,623,526	454,000	9,744,978	2,749,246
Indiana	32,777,869	400,000	548,358	2,815,311	0	24,294,542	4,719,658
Iowa	14,471,132	492,187	0	4,471,907	0	9,132,038	375,000
Kansas	12,652,250	3,879,038	234,164	3,907,840	0	3,630,258	1,000,950
Kentucky	31,186,521	626,035	360,605	9,036,158	9,479,065	9,991,432	1,693,226
Louisiana	45,656,537	524,409	851,261	26,537,429	968,435	54,281	16,720,722
Maine	41,400,506	10,174,122	0	5,534,422	14,374,011	1,854,258	9,463,693
Maryland	41,003,629	0	1,000,000	157,000	37,278,524	2,568,105	0
Massachusetts	58,755,361	0	33,754,301	3,001,382	7,258,818	8,177,210	6,563,650
Michigan	16,827,281	3,966,998	404,961	909,155	1,852,096	7,744,071	1,950,000
Minnesota	28,917,361	4,660,793	0	6,233,155	0	16,990,060	1,033,353
Mississippi	12,365,286	270,332	0	8,889,870	0	3,205,084	0
Missouri	17,580,231	2,040,575	1,979,775	7,637,047	1,893,865	4,028,969	0
Montana	14,667,731	5,587,028	0	7,102,438	0	1,978,265	0
Nebraska	31,562,589	3,558,668	218,017	3,232,300	19,898,274	1,788,598	2,866,732
Nevada	6,811,110	403,079	0	3,285,206	0	1,317,935	1,804,890
New Hampshire	1,257,547	146,922	10,000	149,472	0	871,739	79,414
New Jersey	114,110,735	0	0	7,671,387	91,773,563	5,097,040	9,568,745
New Mexico	3,543,922	0	0	1,357,029	0	2,106,925	79,968
New York	472,861,004	13,447,691	66,848,863	35,047,412	306,404,664	4,480,681	46,631,693
North Carolina	39,656,480	13,906,200	1,740,000	4,718,145	8,180,782	10,169,513	941,840
North Dakota	39,052,516	3,869,805	30,205,490	1,197,474	914,259	1,539,234	1,326,254
Ohio	73,535,535	0	5,975,652	46,317,006	13,345,000	6,007,875	1,890,002
Oklahoma	31,173,972	1,573,195	2,045,141	3,801,498	17,873,894	5,015,636	864,608
Oregon	34,898,696	599,070	3,516,670	20,121,499	5,501,925	3,802,532	1,357,000
Pennsylvania	95,489,670	5,580,750	2,461,597	18,974,193	56,496,720	4,086,264	7,890,146
Rhode Island	2,668,740	0	0	732,267	449,876	1,050,000	436,597
South Carolina	60,272,615	3,866,729	740,763	36,481,183	16,496,376	2,046,024	641,540
South Dakota	5,069,428	2,951,252	22,097	0	0	2,046,079	50,000
Tennessee	88,292,627	200,000	9,001,487	759,197	9,495,595	18,157,736	50,678,612
Texas	263,798,186	758,361	0	9,621,662	231,042,658	22,375,505	0
Utah	11,350,593	0	0	8,424,400	0	2,926,193	0
Vermont	1,724,837	0	0	35,450	798,646	890,741	0
Virginia	57,082,897	4,378,183	937,176	9,478,187	9,398,622	24,182,863	8,707,866
Washington	77,892,601	13,894,197	8,702,876	44,359,876	1,545,000	5,472,000	3,918,652
West Virginia	11,946,339	160,000	3,223,124	2,588,233	2,575,968	2,201,284	1,197,730
Wisconsin	15,612,828	2,599,764	0	7,355,100	0	4,157,964	1,500,000

Table 8. State government expenditures for R&D, by state and function of R&D: FY 2024

(Dollars)

State	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
Wyoming	13,781,859	757,131	7,918,659	3,469,044	270,000	1,367,025	0
Puerto Rico ^c	48,065,120	141,550	0	354,553	40,644,457	45,784	6,878,776

^a Other R&D functions includes but is not limited to corrections, criminal justice, education, forensic science, labor, public safety, and social services functions.

^b U.S. total reflects all 50 states and the District of Columbia.

^c Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 9. State government expenditures for agriculture-related R&D, by state: FYs 2009–24

(Dollars)

State	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
United States ^a	66,468,692	75,090,255	77,332,829	96,578,888	97,316,191	105,326,909	102,115,908	112,280,689	117,483,305	131,384,543	136,996,698	142,105,027	119,859,705	127,263,681	148,243,744	188,178,712
Alabama	0	0	0	0	0	0	250,000	0	0	0	0	0	104,373	326,726	584,939	513,012
Alaska	15,000	687,500	713,500	99,934	750,856	217,231	217,141	0	0	0	0	0	26,000	0	74,015	178,293
Arizona	220,751	142,816	732,254	616,827	549,556	944,617	718,324	945,226	887,874	723,371	1,054,913	1,041,995	1,071,301	1,311,266	1,810,237	1,705,901
Arkansas	6,755,483	6,643,460	7,945,440	8,803,765	8,857,097	8,483,250	8,248,838	7,513,291	9,063,778	7,087,642	12,519,460	12,606,385	6,614,526	5,336,054	4,796,832	7,349,137
California	6,235,149	3,091,420	4,057,537	5,640,401	5,039,599	7,470,645	8,225,669	7,475,484	6,695,567	5,834,873	7,705,454	7,116,436	6,934,080	7,753,869	11,794,814	12,177,438
Colorado	416,336	826,517	583,117	0	50,000	316,549	373,735	472,293	773,012	1,047,197	721,768	1,037,559	2,739,142	1,028,351	1,999,706	975,693
Connecticut	1,237,590	3,259,642	3,326,548	3,256,124	3,314,695	3,920,767	4,228,545	3,942,658	3,894,241	3,321,534	3,856,987	3,856,987	4,142,888	4,321,687	4,521,698	4,887,351
Delaware	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Florida	19,410,440	16,952,501	15,991,126	19,671,322	19,046,571	23,026,254	18,529,725	17,066,498	15,855,393	20,043,531	11,725,430	21,100,902	15,279,858	14,851,847	17,742,469	45,123,731
Georgia	0	0	0	0	0	0	0	0	0	0	633,607	255,642	0	0	2,513,762	2,864,387
Hawaii	233,394	505,967	914,799	1,516,064	1,516,064	80,000	60,000	2,179,089	1,544,443	3,700,895	1,680,702	1,977,000	524,528	932,423	1,007,998	929,873
Idaho	1,352,291	1,529,838	1,720,839	2,344,664	2,940,842	2,442,070	2,930,637	3,956,230	4,205,334	4,796,891	5,349,416	7,279,087	6,008,990	8,109,741	6,558,129	6,201,382
Illinois	18,096	0	0	0	0	0	139,697	2,839,551	2,975,635	2,975,635	3,989,560	3,140,385	2,019,400	1,977,021	0	0
Indiana	0	0	0	177,000	268,000	250,000	250,000	250,000	250,000	350,000	141,876	100,000	500,279	500,000	500,000	400,000
Iowa	0	0	0	0	0	0	0	0	0	0	0	60,000	170,448	179,657	441,684	492,187
Kansas	784,957	1,104,311	1,167,853	1,013,350	984,198	1,129,199	1,328,784	1,457,957	2,021,302	4,415,012	3,998,895	3,675,354	3,548,954	4,457,312	3,650,342	3,879,038
Kentucky	0	0	45,130	478,313	312,518	250,000	1,287,000	1,407,000	1,454,611	1,469,615	627,270	540,182	517,000	290,727	588,967	626,035
Louisiana	0	0	0	0	0	27,333	9,167	2,500	49,066	38,750	270,090	636,415	274,427	289,750	177,190	524,409
Maine	501,243	1,152,303	987,050	933,637	373,257	407,500	1,013,206	765,706	1,851,874	4,534,099	7,182,948	3,329,336	1,891,592	1,542,730	10,182,623	10,174,122
Maryland	336,650	228,000	451,700	300,000	384,771	200,000	200,000	245,456	379,919	352,432	357,910	269,157	0	0	235,327	0
Massachusetts	0	0	0	0	0	34,227	0	37,631	0	0	50,000	0	0	0	0	0
Michigan	206,282	36,910	82,793	493,895	548,396	3,190,880	3,150,111	1,279,134	1,444,252	1,437,876	1,246,732	3,316,092	1,216,089	2,756,984	4,028,064	3,966,998
Minnesota	987,608	1,301,382	1,387,590	1,721,463	1,981,417	2,725,197	2,938,310	5,516,597	4,972,707	3,929,309	3,701,150	5,526,168	4,789,550	4,545,874	4,606,074	4,660,793
Mississippi	0	0	0	0	0	84,209	0	49,896	0	1,027,288	599,632	1,213,684	1,564,195	114,017	207,791	270,332
Missouri	168,096	189,947	85,115	349,210	381,475	711,626	830,064	1,008,692	1,045,000	1,315,740	1,153,575	911,532	1,185,569	2,327,790	2,813,505	2,040,575
Montana	1,199,654	1,850,656	1,493,635	2,105,602	1,975,948	4,713,540	4,097,279	3,443,331	3,742,881	3,309,628	3,132,570	3,566,938	2,841,089	3,359,243	3,466,168	5,587,028
Nebraska	1,276,949	927,985	977,548	1,399,997	1,748,254	2,996,054	2,725,502	2,897,352	2,183,807	3,593,971	2,851,678	2,453,010	3,234,030	3,326,551	2,472,778	3,558,668
Nevada	0	0	0	0	0	10,000	0	0	0	140,823	184,774	188,146	237,064	208,642	204,134	403,079
New Hampshire	38,005	219,170	113,969	477,066	438,435	98,640	130,904	120,719	72,482	141,692	114,949	113,278	160,563	26,047	66,591	146,922
New Jersey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	81,699	88,062	0	0	0	0	0	0	0	0	0
New York	1,869,720	2,117,582	1,779,089	1,748,998	1,383,413	2,265,729	2,605,432	4,885,323	9,014,755	10,578,603	10,612,279	7,919,165	8,731,413	8,293,408	9,199,446	13,447,691
North Carolina	10,568,425	12,625,716	12,878,500	17,944,847	17,947,847	12,239,391	12,050,000	12,225,000	14,972,009	17,220,343	14,132,932	13,961,296	14,123,005	14,078,340	14,087,083	13,906,200
North Dakota	935,619	1,444,526	2,014,848	2,521,725	2,475,547	2,504,192	2,674,205	3,311,263	3,511,678	3,334,741	2,998,472	2,955,514	3,177,142	3,145,930	3,047,748	3,869,805
Ohio	0	0	0	0	0	0	0	200,000	0	0	0	0	0	0	0	0
Oklahoma	1,610,660	1,295,705	1,608,677	1,862,336	2,500,477	1,708,188	1,811,266	2,340,454	1,719,116	1,713,695	1,058,791	2,158,072	1,329,150	1,514,338	1,045,149	1,573,195

Table 9. State government expenditures for agriculture-related R&D, by state: FYs 2009–24

(Dollars)

State	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oregon	134,857	489,631	532,446	218,038	290,595	384,341	372,579	169,212	669,211	740,878	1,638,762	706,521	205,647	583,164	803,998	599,070
Pennsylvania	852,734	755,736	640,671	1,512,706	2,033,013	787,000	787,000	1,587,000	1,687,000	1,687,000	3,187,000	3,877,434	2,601,164	3,446,582	5,019,941	5,580,750
Rhode Island	0	0	0	166,820	40,000	0	0	0	43,868	50,000	49,042	45,615	53,000	99,985	150,000	0
South Carolina	421,699	0	92,305	62,024	157,702	534,646	498,748	354,516	665,133	931,700	1,013,153	809,303	1,839,876	1,770,038	2,902,813	3,866,729
South Dakota	50,000	25,000	0	75,000	75,000	3,219,622	2,928,142	2,777,400	2,029,617	2,285,632	1,690,563	1,526,155	2,013,292	2,486,260	3,215,229	2,951,252
Tennessee	0	0	0	0	0	0	0	0	0	150,000	0	0	0	0	0	200,000
Texas	1,972,975	3,618,361	2,877,596	2,758,683	2,650,989	3,557,354	808,544	1,761,471	688,365	1,053,502	1,229,300	1,151,413	932,510	1,353,356	2,086,663	758,361
Utah	1,000,000	3,589	113,336	4,508,902	3,989,111	1,688,670	2,035,321	1,096,257	1,326,188	435,393	0	0	0	305,965	1,317	0
Vermont	0	490,900	652,700	503,308	538,173	384,878	407,694	50,000	0	0	0	0	0	0	0	0
Virginia	806,328	2,285,378	2,213,361	1,633,434	1,631,509	730,636	1,120,676	3,142,288	2,679,432	2,560,373	2,765,452	2,445,328	3,118,841	3,267,434	3,598,429	4,378,183
Washington	4,587,406	8,340,489	8,317,099	8,098,988	8,954,794	10,769,035	11,203,711	12,385,554	11,904,380	11,663,031	17,797,227	17,505,768	11,882,329	13,620,631	12,929,594	13,894,197
West Virginia	0	0	151,428	206,137	93,033	0	0	0	0	25,000	25,000	10,000	166,685	244,126	43,500	160,000
Wisconsin	0	770,721	536,004	864,399	640,941	616,740	841,890	900,573	928,599	838,651	3,518,097	1,060,099	1,558,082	2,539,311	2,447,261	2,599,764
Wyoming	264,295	176,596	147,226	493,909	452,098	125,000	0	222,087	280,776	528,197	429,282	661,674	531,634	640,504	619,736	757,131
Puerto Rico ^b	649,048	0	0	507,174	649,048	550,000	683,157	na	na	na	na	na	na	258,249	140,343	141,550

na = not applicable; did not report to survey.

^a U.S. total reflects all 50 states and the District of Columbia.^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Note(s):**

State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

Table 10. State government expenditures for energy-related R&D, by state: FYs 2009–24

(Dollars)

State	2009 ^a	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
United States ^b	NA	227,404,238	265,645,943	238,545,588	192,380,008	157,200,057	383,145,992	368,028,147	307,574,426	397,036,953	323,076,738	390,847,851	410,273,614	325,615,797	373,458,008	503,270,221
Alabama	NA	988,806	1,279,672	788,212	509,974	386,692	688,913	134,432	206,926	282,748	255,807	117,181	178,809	667,842	751,370	1,556,686
Alaska	NA	1,359,100	1,301,000	1,438,817	1,799,951	35,860	53,202	1,020,450	1,002,160	2,120,127	1,102,206	500,000	500,000	731,152	742,896	582,223
Arizona	NA	267,174	1,702,776	6,243,529	7,630,643	1,547,000	658,000	216,988	0	0	0	0	0	0	0	0
Arkansas	NA	1,736,657	3,156,213	2,913,191	3,620,296	4,800,000	5,243,216	1,548,704	1,444,227	2,304,745	852,718	502,762	50,000	0	50,000	0
California	NA	105,072,000	95,975,000	75,756,774	55,577,129	52,593,000	263,254,000	251,116,066	184,568,270	243,987,483	202,262,559	256,532,543	267,900,000	191,774,566	225,709,133	295,872,603
Colorado	NA	1,464,536	409,252	313,762	254,860	1,934,715	2,241,216	1,839,587	2,304,024	1,099,099	3,184,039	3,347,250	2,846,991	2,602,115	3,247,418	2,903,750
Connecticut	NA	358,778	553,640	571,414	588,724	1,714,724	1,944,337	240,000	0	0	0	4,083,058	3,627,099	2,919,711	2,928,267	5,700,000
Delaware	NA	0	0	0	0	0	10,000	0	0	13,683	24,256	20,800	46,054	10,495	50,500	0
District of Columbia	NA	0	0	0	0	0	75,000	0	0	29,500	0	520,000	0	0	0	0
Florida	NA	3,571,447	4,158,768	8,476,266	990,320	355,629	1,117,124	2,371,453	716,664	585,190	557,060	784,693	554,984	1,012,306	188,602	179,287
Georgia	NA	1,000,000	1,200,000	800,000	0	3,096,465	3,148,268	5,976,273	6,235,488	9,382,400	6,335,903	5,825,649	9,067,079	7,759,750	8,294,642	13,101,035
Hawaii	NA	5,825,028	6,020,023	4,024,303	5,674,072	4,300,000	1,500,000	7,500,000	4,108,496	6,004,495	2,510,732	6,466,637	4,216,265	282,042	710,125	673,600
Idaho	NA	0	0	0	0	401,783	274,051	178,178	260,435	237,898	0	0	206,624	0	0	0
Illinois	NA	190,000	0	21,110	225,000	5,885,366	4,333,344	390,473	66,300	0	0	0	0	0	0	0
Indiana	NA	0	0	0	383,432	657,307	354,693	125,478	0	2,298,615	268,086	95,000	24,787	0	748,289	548,358
Iowa	NA	0	26,590,826	5,207,302	6,340,014	1,117,561	710,522	1,181,136	164,157	0	0	0	0	0	0	0
Kansas	NA	0	0	0	0	0	0	0	0	0	0	0	0	132,471	139,676	234,164
Kentucky	NA	4,256,458	3,372,112	4,809,927	5,976,089	2,403,100	2,443,000	774,052	296,900	301,357	2,020,000	171,000	386,000	140,000	143,957	360,605
Louisiana	NA	0	0	0	0	0	0	0	790,430	756,017	2,875,376	2,613,811	1,936,715	927,353	626,150	851,261
Maine	NA	5,000	5,000	821,675	480,594	415,000	986,000	1,311,000	0	0	0	0	31,830	0	0	0
Maryland	NA	40,000	25,000	300,000	300,000	200,000	200,000	200,000	189,999	646,989	1,181,872	1,168,566	0	2,000,000	188,034	1,000,000
Massachusetts	NA	0	0	0	0	2,640,446	4,998,471	3,982,930	6,660,272	3,906,259	5,049,247	4,183,011	5,044,038	7,048,706	27,660,771	33,754,301
Michigan	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	200,000	404,961
Minnesota	NA	1,243,965	249,201	1,702,500	122,084	327,995	897,117	387,372	0	0	0	0	0	0	153,294	0
Mississippi	NA	1,550,000	1,250,000	0	0	22,914	1,739	0	0	0	0	0	0	0	0	0
Missouri	NA	0	0	0	0	0	0	0	0	0	0	500,000	0	0	0	1,979,775
Montana	NA	835,942	405,260	187,163	1,200	332,678	0	0	178,300	0	0	0	0	0	0	0
Nebraska	NA	5,000	10,000	196,427	236,100	100,000	0	266,783	177,207	495,519	4,000	0	350,000	157,872	172,926	218,017
Nevada	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Hampshire	NA	0	0	0	0	0	0	19,920	86,235	0	8,938	0	15,000	0	0	10,000
New Jersey	NA	500,000	0	437,685	0	0	0	0	0	0	0	0	0	0	0	0
New Mexico	NA	0	0	0	57,083	0	0	0	0	83,198	82,970	169,166	79,323	0	0	0
New York	NA	29,744,916	45,608,891	41,789,076	27,061,407	36,809,190	45,627,241	50,958,594	55,855,216	86,541,730	51,407,945	65,977,562	60,426,855	65,172,565	52,943,590	66,848,863
North Carolina	NA	100,000	105,000	0	0	1,322,052	1,652,847	1,969,629	0	0	1,656,680	1,500,000	1,574,989	1,680,920	1,659,524	1,740,000
North Dakota	NA	4,153,800	5,200,850	2,778,935	3,931,762	6,858,556	5,705,731	3,826,839	8,098,449	9,031,575	6,229,265	10,111,495	24,409,679	9,398,767	18,378,646	30,205,490
Ohio	NA	41,236,142	47,150,392	62,348,681	52,267,399	6,472,561	11,048,550	14,930,905	15,281,674	15,071,024	14,557,578	11,929,919	8,291,260	9,364,131	5,992,718	5,975,652
Oklahoma	NA	387,401	149,201	330,000	323,800	1,246,000	1,625,000	2,733,540	1,390,000	977,210	684,211	599,094	550,284	883,335	1,459,455	2,045,141

Table 10. State government expenditures for energy-related R&D, by state: FYs 2009–24

(Dollars)

State	2009 ^a	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oregon	NA	175,000	50,000	0	0	7,099,464	7,467,172	3,774,000	3,000,000	2,250,000	4,550,000	1,590,000	2,400,000	1,659,775	1,250,000	3,516,670
Pennsylvania	NA	0	0	2,070,343	1,699,984	2,580,520	2,156,564	2,603,817	100,000	0	5,323,743	837,000	1,009,207	457,337	3,878,560	2,461,597
Rhode Island	NA	0	0	0	0	2,000	1,200	104,121	131,554	48,106	0	0	0	136,999	349,934	0
South Carolina	NA	863,890	871,078	484,124	251,410	56,129	163,885	213,958	206,826	92,280	86,506	125,624	474,350	562,345	587,345	740,763
South Dakota	NA	0	0	0	0	3,779	26,862	11,135	22,447	181,466	39,853	16,021	1,968	0	37,445	22,097
Tennessee	NA	0	35,764	6,553	0	0	0	213,026	0	106,514	106,514	106,514	0	0	50,851	9,001,487
Texas	NA	0	0	374,013	447,132	0	0	0	0	0	0	0	0	0	0	0
Utah	NA	7,375,546	7,209,348	4,125,214	4,558,744	2,076,936	4,835,743	1,213,403	2,525,845	1,909,139	0	500,540	0	0	0	0
Vermont	NA	300,000	300,000	167,769	179,391	223,802	239,382	0	0	0	0	0	0	0	0	0
Virginia	NA	10,301,835	8,564,304	8,321,652	10,400,000	5,789,258	6,263,600	549,281	528,160	360,108	350,000	179,664	409,898	412,180	438,598	937,176
Washington	NA	0	0	0	0	148,000	0	1,916,700	8,197,974	3,309,037	7,621,218	6,731,672	11,573,426	15,236,975	7,987,717	8,702,876
West Virginia	NA	2,495,817	2,737,372	102,719	159,332	857,387	820,450	1,689,433	1,456,024	2,486,309	1,703,058	1,390,229	872,617	1,333,732	1,640,120	3,223,124
Wisconsin	NA	0	0	250,000	150,000	30,000	30,000	0	0	66,000	0	0	0	0	500,000	0
Wyoming	NA	0	0	386,452	182,082	356,188	349,552	538,491	1,323,767	71,133	184,398	1,651,390	1,217,483	1,150,355	3,597,455	7,918,659
Puerto Rico ^c	NA	100,000	100,000	106,470	220,000	422,494	400,000	na	na	na	na	na	na	0	61,401	0

na = not applicable; did not report to survey. NA = not available; not collected as a separate R&D function for FY 2009.

^a Energy category was introduced with the FY 2010 and FY 2011 Survey of State Government Research and Development. Previously, energy-related R&D was reported primarily in the other category and in the environment and natural resources category.^b U.S. total reflects all 50 states and the District of Columbia.^c Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Note(s):**

State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

Table 11. State government expenditures for environment and natural resources-related R&D, by state: FYs 2009–24

(Dollars)

State	2009 ^a	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
United States ^b	328,102,718	356,603,823	380,376,738	357,528,082	380,245,106	369,242,699	416,120,534	411,765,467	450,709,184	418,889,511	440,269,973	448,489,450	444,593,349	556,643,092	591,276,952	615,568,273
Alabama	7,694,078	8,922,103	13,521,133	12,879,773	9,984,291	4,106,869	5,718,986	12,848,739	14,685,442	13,608,231	9,403,795	5,930,160	6,080,232	70,126,266	53,882,774	45,830,380
Alaska	6,449,300	5,833,600	6,767,900	3,702,011	3,662,664	9,001,900	8,987,200	7,617,940	5,324,200	7,104,800	8,392,100	8,878,600	9,713,200	10,015,251	12,740,515	10,752,476
Arizona	6,356,155	6,023,906	5,743,162	5,327,071	6,689,903	6,184,876	7,012,194	4,253,582	2,220,204	1,755,221	1,077,891	1,849,760	1,682,113	1,140,215	1,552,790	2,131,091
Arkansas	345,832	658,590	680,971	707,557	942,106	0	303,087	530,436	0	2,249,406	2,426,103	2,455,409	1,143,026	1,558,599	2,270,144	3,181,923
California	48,172,325	30,914,302	43,443,294	26,096,846	30,615,059	28,842,415	30,382,163	30,970,439	34,984,578	41,221,163	40,709,827	46,017,594	46,696,431	64,903,411	63,966,691	70,943,128
Colorado	8,317,796	7,142,396	7,185,567	6,957,024	6,576,449	8,449,733	8,630,632	7,187,484	9,718,770	9,097,135	10,798,678	11,609,704	11,287,126	7,762,275	10,539,540	11,926,882
Connecticut	5,814,050	13,081,012	12,517,073	12,661,538	13,780,616	10,592,603	10,303,327	10,527,008	9,545,714	10,218,069	10,599,160	11,473,607	11,706,792	11,877,203	12,908,890	12,644,615
Delaware	1,433,562	2,139,720	2,359,902	2,231,693	2,754,545	1,988,655	2,048,014	1,849,169	1,973,153	2,686,413	2,701,302	2,241,188	2,125,080	2,229,910	2,096,191	2,281,072
District of Columbia	0	0	0	0	0	1,740,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,920,000	1,821,400	1,976,600	1,848,077	1,850,270
Florida	17,934,886	50,262,488	47,437,237	48,709,314	47,462,678	51,191,986	57,934,383	51,313,340	52,812,260	50,929,717	52,486,202	56,851,522	57,586,211	57,744,843	66,897,373	83,757,827
Georgia	0	0	0	2,607,843	3,999,505	2,584,180	3,062,308	2,027,695	2,221,630	0	3,871,745	1,164,256	3,132,706	12,722,663	2,927,411	3,154,472
Hawaii	4,497,068	5,229,835	5,607,794	4,533,302	4,484,602	6,929,035	7,849,438	6,483,585	4,975,227	1,363,167	895,592	385,278	320,500	632,000	513,210	1,017,703
Idaho	5,881,390	6,123,012	6,064,901	8,072,165	8,059,032	7,827,527	8,164,676	7,991,169	8,495,485	8,049,677	8,364,544	10,831,981	9,473,386	9,482,216	9,232,224	6,062,574
Illinois	56,800	0	0	0	0	0	0	0	0	0	0	0	18,525,888	17,723,231	32,327,079	4,623,526
Indiana	1,821,645	1,700,000	1,700,000	15,000	2,500	37,694	124,964	790,356	309,601	100,000	0	141,764	720,153	352,281	3,866,329	2,815,311
Iowa	0	7,074,696	3,640,397	3,278,552	3,517,000	4,135,147	4,279,253	3,981,402	3,892,642	3,669,395	3,797,923	4,170,756	2,994,029	3,688,099	1,945,868	4,471,907
Kansas	365,000	365,000	465,000	0	0	166,000	258,099	747,974	3,190,713	4,145,270	3,645,223	4,840,882	7,217,311	8,280,611	1,716,521	3,907,840
Kentucky	2,874,829	2,005,156	2,137,523	5,902,607	6,074,737	688,300	768,100	2,021,103	3,610,436	2,897,000	2,531,000	2,237,368	2,406,089	7,261,361	7,622,379	9,036,158
Louisiana	1,567,596	2,522,697	8,005,483	10,305,857	8,174,868	7,750,826	21,166,032	18,265,666	16,653,861	12,451,900	11,751,729	12,455,929	10,483,689	10,092,683	11,664,250	26,537,429
Maine	1,969,352	2,527,524	3,728,729	1,615,411	1,434,954	2,127,448	3,129,609	4,737,000	4,913,480	3,399,559	12,055,909	7,070,173	7,542,075	7,605,622	7,640,976	5,534,422
Maryland	6,853,050	390,000	616,000	963,777	947,472	1,191,164	3,070,807	790,790	2,328,795	1,680,353	1,625,725	1,184,063	900,754	410,466	439,038	157,000
Massachusetts	1,082,161	1,116,916	842,629	928,129	1,031,320	11,503,702	12,416,317	13,432,781	9,621,224	8,926,019	8,938,925	10,052,872	2,752,268	3,522,905	3,317,234	3,001,382
Michigan	2,320,826	4,792,530	4,595,080	3,164,059	4,582,027	3,561,675	4,025,524	7,519,042	8,548,682	471,572	1,555,898	1,265,405	1,690,204	880,828	702,204	909,155
Minnesota	1,566,712	1,813,748	794,167	673,544	1,662,951	2,678,015	3,562,237	3,499,210	3,446,554	3,790,153	5,356,934	3,365,930	3,612,375	4,929,165	4,711,365	6,233,155
Mississippi	2,105,823	3,634,374	3,295,081	1,458,268	1,562,376	917,631	566,320	1,025,908	2,162,824	6,216,398	5,579,050	4,637,046	4,036,645	6,374,191	7,059,347	8,889,870
Missouri	10,133,435	9,482,088	8,530,764	9,502,232	9,297,498	10,347,414	11,728,858	12,524,705	12,672,628	13,159,754	11,968,316	11,624,124	10,111,070	7,213,438	7,666,807	7,637,047
Montana	1,871,061	2,185,884	2,343,724	2,920,932	2,479,271	3,247,491	3,688,918	3,336,125	4,888,356	4,140,091	4,146,533	7,753,095	3,873,284	4,371,611	4,658,143	7,102,438
Nebraska	2,048,838	2,214,924	1,902,385	1,818,917	2,040,414	219,783	529,071	928,291	400,154	679,369	4,757,681	6,941,251	5,465,378	4,079,403	2,068,739	3,232,300
Nevada	0	32,942	47,582	46,905	45,408	170,494	192,802	83,663	4,967	100,000	128,914	222,553	439,233	474,700	920,333	3,285,206
New Hampshire	155,000	100,000	111,000	0	0	262,850	331,476	744,520	642,613	74,981	101,215	113,525	593,070	1,406,171	1,641,411	149,472
New Jersey	2,974,000	4,305,318	1,988,395	2,837,940	3,192,669	3,162,639	2,721,846	2,591,814	2,487,857	1,823,000	2,192,254	2,206,594	2,940,457	5,608,633	7,057,203	7,671,387
New Mexico	0	0	0	312,918	502,068	1,274,000	1,156,279	1,595,891	1,283,998	1,727,331	2,108,672	2,147,277	1,550,674	1,950,400	1,566,851	1,357,029
New York	36,911,399	29,002,576	19,416,212	25,121,628	23,232,954	24,029,807	21,834,761	21,338,549	25,507,577	23,271,335	33,457,115	30,312,324	31,482,716	21,860,827	30,403,179	35,047,412
North Carolina	20,919,615	5,076,664	6,817,285	3,011,692	3,136,983	2,864,841	2,901,909	5,490,244	6,354,160	7,534,575	7,935,915	7,263,072	5,733,496	6,263,664	2,906,002	4,718,145
North Dakota	587,710	22,500	15,000	0	0	825,000	825,000	432,220	1,339,067	1,150,015	1,546,256	789,902	918,049	624,754	659,780	1,197,474
Ohio	6,306,109	38,137,758	38,596,214	15,477,600	38,073,964	36,843,569	42,606,559	46,302,620	61,383,778	50,609,867	46,098,202	50,405,927	31,774,578	49,888,407	49,445,763	46,317,006
Oklahoma	2,552,285	1,631,015	2,505,761	2,248,062	4,765,208	5,921,730	5,465,000	5,201,284	5,714,953	3,041,465	3,697,616	2,281,991	2,291,905	3,000,003	2,389,244	3,801,498

Table 11. State government expenditures for environment and natural resources-related R&D, by state: FYs 2009–24

(Dollars)

State	2009 ^a	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oregon	8,279,562	14,867,136	16,924,664	19,780,040	20,153,209	17,070,483	18,412,322	11,208,431	16,722,907	14,527,986	19,896,508	16,706,262	17,198,988	18,199,863	22,483,060	20,121,499
Pennsylvania	9,395,553	7,891,207	7,749,253	8,058,329	9,069,833	8,792,509	9,129,370	9,043,493	7,739,820	8,326,030	8,385,384	8,868,958	10,393,255	13,890,852	18,896,798	18,974,193
Rhode Island	446,347	401,045	590,282	927,489	1,059,308	861,501	869,042	1,342,772	1,320,932	2,476,653	3,507,663	3,868,806	9,014,506	6,658,944	2,199,338	732,267
South Carolina	25,183,342	34,711,576	45,163,028	46,038,125	36,316,203	17,608,196	23,516,239	24,859,330	26,168,247	29,097,570	28,245,560	27,721,566	27,217,435	29,745,041	31,915,915	36,481,183
South Dakota	2,311,292	1,638,739	1,628,888	1,894,989	1,774,517	45,000	20,000	0	62,998	0	0	50,000	0	0	34,950	0
Tennessee	0	0	320,000	856,000	866,500	583,092	571,871	1,085,874	863,020	901,162	906,097	919,243	233,025	314,273	0	759,197
Texas	24,750,247	6,351,022	4,805,152	5,492,140	6,428,787	13,206,103	14,491,269	13,099,100	16,408,555	9,895,119	9,797,876	7,456,321	11,309,543	6,661,241	11,126,708	9,621,662
Utah	6,149,899	6,329,203	7,943,186	17,978,580	18,312,681	17,125,000	18,245,765	17,814,501	18,126,510	17,282,000	4,537,659	5,558,311	4,995,663	5,847,503	7,388,968	8,424,400
Vermont	0	75,000	75,000	115,469	102,379	252,928	90,683	153,931	50,195	49,859	308,227	282,511	274,477	63,773	79,783	35,450
Virginia	4,005,964	3,947,713	3,829,525	4,874,529	5,709,773	9,017,423	9,630,219	7,583,316	5,564,985	6,068,610	7,210,949	5,985,898	7,597,646	10,742,492	18,131,290	9,478,187
Washington	6,993,436	10,782,537	11,087,560	10,712,941	10,953,130	9,118,095	9,698,425	11,991,928	14,779,468	12,726,589	16,415,784	23,572,042	20,929,359	22,916,358	28,731,394	44,359,876
West Virginia	1,804,769	1,818,077	1,873,514	1,501,719	1,611,130	279,478	305,196	1,709,742	3,335,151	2,967,206	4,141,682	3,939,496	3,183,300	2,433,225	3,460,082	2,588,233
Wisconsin	15,201,270	6,717,528	10,197,725	9,081,222	8,894,211	7,183,900	7,569,100	6,503,000	7,237,000	7,206,044	6,060,492	5,423,223	6,879,700	7,047,780	7,574,828	7,355,100
Wyoming	3,641,349	4,607,766	4,765,616	4,126,343	4,225,353	4,731,992	3,824,884	2,388,305	2,013,813	2,022,282	2,152,148	2,043,931	2,542,859	2,086,841	3,481,963	3,469,044
Puerto Rico ^c	136,021	100,000	100,000	201,685	244,845	205,623	150,000	na	na	na	na	na	na	796,996	276,257	354,553

na = not applicable; did not report to survey.

^a Energy category was introduced with the FY 2010 and FY 2011 Survey of State Government Research and Development. Previously, energy-related R&D was reported primarily in the other category and in the environment and natural resources category.^b U.S. total reflects all 50 states and the District of Columbia.^c Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Note(s):**

State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

Table 12. State government expenditures for health-related R&D, by state: FYs 2009–24

(Dollars)

State	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
United States ^a	655,232,591	706,857,175	807,478,439	928,730,622	917,012,571	857,841,801	953,278,196	982,391,978	1,102,800,942	1,103,231,515	1,081,355,223	1,017,817,515	1,066,237,251	1,087,918,824	1,281,631,030	1,455,608,217
Alabama	0	0	0	0	0	1,000,000	2,829,600	0	0	980,000	1,080,000	2,000,000	2,163,596	1,751,080	10,847,247	2,463,376
Alaska	0	0	0	0	0	0	0	930,260	1,591,735	506,881	320,476	474,542	866,695	534,187	268,294	122,970
Arizona	27,750	8,330,000	8,330,000	8,805,168	11,203,068	8,881,971	5,294,706	9,412,703	9,980,905	7,818,486	13,843,058	11,085,857	8,467,153	3,518,749	7,868,651	11,719,582
Arkansas	0	0	0	479,000	806,060	75,000	726,189	3,963,571	725,427	1,152,372	3,477,448	2,813,075	200,000	275,000	242,686	0
California	126,845,475	148,970,628	225,037,368	253,217,501	217,140,177	216,614,046	221,214,363	199,522,966	203,217,560	287,551,776	224,834,054	171,494,281	142,503,729	173,274,157	234,563,834	359,744,919
Colorado	4,029,968	8,527,268	6,759,774	5,131,657	4,261,796	1,640,750	1,248,410	3,389,071	6,359,827	9,708,144	10,026,796	8,061,107	9,548,470	8,813,647	8,971,048	6,870,833
Connecticut	17,730,124	19,337,597	18,783,202	19,510,447	19,239,333	20,966,024	28,803,862	26,312,600	29,158,735	29,361,070	29,921,946	29,124,362	27,271,532	26,085,781	24,164,742	20,465,360
Delaware	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District of Columbia	487,411	503,267	956,728	656,448	861,058	563,442	174,578	527,470	805,139	1,792,224	1,716,302	1,929,090	5,983,318	8,244,141	7,909,103	5,492,578
Florida	18,478,377	39,962,706	65,570,757	47,079,479	38,775,780	67,376,045	102,896,382	72,373,725	118,404,672	98,470,122	90,372,743	92,452,504	93,311,821	92,302,255	122,453,101	182,599,063
Georgia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	0	0	0	190,000	190,000	0	0	0	0	263,750	0	0	37,500	1,033,000	508,672	108,900
Idaho	0	0	0	0	0	30,226	130,045	148,927	111,453	376,277	338,288	212,000	0	0	0	0
Illinois	4,107,400	2,596,733	680,013	4,383,094	3,550,718	1,433,534	2,552,945	2,340,975	1,797,019	217,779	15,596	399,924	295,040	400,000	516,000	454,000
Indiana	20,304,740	0	0	135,000	708,497	10,000,000	0	0	2,849,998	299,865	600,000	0	300,000	0	0	0
Iowa	0	0	0	0	0	0	0	56,706	79,418	0	61,000	0	0	0	0	0
Kansas	1,040,411	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kentucky	3,150,948	7,371,306	7,136,813	4,695,084	4,793,049	4,461,800	13,390,238	13,781,476	11,429,613	10,071,322	14,469,601	5,084,557	4,996,055	5,256,867	8,553,439	9,479,065
Louisiana	0	0	0	0	0	0	0	0	1,287,883	1,231,812	1,532,501	2,800,226	1,160,113	1,196,008	1,139,543	968,435
Maine	1,187,173	349,014	1,082,201	414,740	1,115,608	1,040,000	2,210,000	266,000	11,422,764	2,427,890	2,467,740	9,463,845	12,612,119	9,873,473	11,660,337	14,374,011
Maryland	8,801,328	17,699,478	13,611,823	17,851,235	24,603,993	26,800,000	20,500,000	23,700,000	23,800,000	23,800,000	22,520,611	24,466,432	25,100,000	26,227,112	43,682,169	37,278,524
Massachusetts	2,208,037	2,130,489	2,045,865	2,990,371	3,559,104	4,081,553	5,249,751	5,979,649	5,003,259	5,043,625	6,632,267	6,849,528	6,574,962	7,689,115	7,473,568	7,258,818
Michigan	0	0	0	0	0	0	0	2,122,805	134,052	0	88,488	0	20,000,000	20,662,258	8,046,672	1,852,096
Minnesota	0	0	0	0	0	2,500,000	2,500,000	56,970	0	0	0	0	0	0	250,000	0
Mississippi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Missouri	0	0	0	0	0	21,534	48,741	26,867	56,987	509,035	103,760	233,307	592,500	242,500	3,449,500	1,893,865
Montana	822,627	822,299	848,774	202,778	39,483	577,157	642,384	389,076	491,415	311,826	311,826	0	0	0	0	0
Nebraska	15,035,043	15,097,864	15,548,482	16,056,068	16,245,250	18,200,000	17,312,977	18,084,908	18,473,914	20,240,268	18,986,705	19,977,610	19,480,431	19,918,950	20,069,625	19,898,274
Nevada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170,477	0
New Hampshire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Jersey	17,709,498	26,514,169	20,337,742	23,299,300	27,235,551	23,534,704	27,235,340	23,477,042	28,254,395	43,407,927	15,865,431	14,879,386	48,281,316	46,820,754	80,740,965	91,773,563
New Mexico	0	0	0	0	0	15,000	25,000	25,000	25,000	0	0	0	0	0	0	0
New York	280,837,508	283,069,421	282,851,404	277,519,794	270,756,889	256,559,541	243,968,723	269,492,703	284,862,343	267,111,534	315,479,125	313,857,986	289,740,653	308,203,902	295,176,385	306,404,664
North Carolina	0	50,000	50,000	0	0	0	7,966,618	6,899,677	3,686,679	0	778,247	3,810,296	3,665,704	5,202,825	8,484,484	8,180,782
North Dakota	100,000	0	0	0	0	0	0	0	0	0	29,510	349,127	5,182,820	3,313,396	874,605	914,259
Ohio	41,320,535	19,731,000	13,231,000	12,112,168	9,039,545	4,508,615	3,246,554	7,565,421	5,676,625	4,017,450	3,200,453	2,752,778	2,141,824	0	20,000,000	13,345,000
Oklahoma	5,796,835	5,049,251	5,478,209	12,107,346	14,185,074	14,455,147	14,970,721	15,661,166	16,552,610	14,673,618	16,263,121	17,420,143	17,077,727	16,139,607	17,774,197	17,873,894

Table 12. State government expenditures for health-related R&D, by state: FYs 2009–24

(Dollars)

State	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
Oregon	0	0	0	0	0	1,000,000	1,000,000	2,000,000	3,736,168	4,400,000	6,000,000	3,100,000	5,127,824	3,779,289	4,980,964	5,501,925	
Pennsylvania	66,341,905	70,998,595	59,182,594	56,902,179	44,055,514	11,421,718	52,398,628	51,364,919	47,614,029	52,933,326	53,335,777	73,605,865	72,166,914	61,719,253	62,664,377	56,496,720	
Rhode Island	984,944	776,356	912,363	400,000	0	305,066	179,946	307,601	351,000	299,864	150,000	139,519	411,325	363,485	249,596	449,876	
South Carolina	0	1,151,294	1,794,228	1,444,209	1,176,021	461,758	152,441	140,504	2,071,908	1,422,065	14,541,188	15,991,705	10,768,594	13,374,650	14,095,324	16,496,376	
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tennessee	0	0	0	0	0	0	0	0	0	450,000	0	0	0	0	0	9,495,595	
Texas	123,000	123,000	15,838,498	115,648,847	155,001,396	131,883,911	149,991,410	212,222,958	251,174,470	200,381,853	204,708,613	175,905,076	222,983,844	214,612,352	244,640,010	231,042,658	
Utah	10,409,824	12,853,867	14,602,894	18,745,639	24,346,306	8,226,438	8,531,383	4,418,669	6,739,754	4,592,665	12,780	4,850	5,350	0	0	0	
Vermont	0	132,198	190,117	160,853	170,780	170,047	252,706	139,055	166,047	166,047	210,747	215,000	163,373	553,199	1,818,036	798,646	
Virginia	1,560,000	611,496	4,370,815	4,273,179	1,806,000	6,113,236	6,250,104	3,723,667	3,065,856	3,458,734	3,183,007	3,829,173	4,132,097	2,963,275	5,142,800	9,398,622	
Washington	2,418,730	13,547,879	20,997,880	22,801,588	19,586,521	11,904,246	8,364,171	0	0	1,188,578	1,188,510	1,260,394	1,367,538	1,362,789	1,357,424	1,545,000	
West Virginia	0	0	0	0	0	179,292	179,280	566,871	892,283	1,050,330	1,296,852	712,330	293,814	241,625	250,155	2,575,968	
Wisconsin	3,373,000	550,000	1,248,895	1,517,450	2,560,000	840,000	840,000	1,000,000	750,000	1,543,000	1,140,656	1,000,000	1,000,000	1,314,143	503,000	0	
Wyoming	0	0	0	0	0	0	0	0	0	0	250,000	61,640	261,500	656,000	70,000	270,000	
Puerto Rico ^b	6,599,988	3,050,000	3,250,000	6,259,429	5,695,724	4,036,171	3,123,280	na	na	na	na	na	na	na	11,118,968	34,008,519	40,644,457

na = not applicable; did not report to survey.

^a U.S. total reflects all 50 states and the District of Columbia.^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Note(s):**

State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

Table 13. State government expenditures for transportation-related R&D, by state: FYs 2009–24

(Dollars)

State	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
United States ^a	242,284,805	247,322,194	265,500,923	252,070,334	265,514,142	254,719,885	246,570,344	264,596,307	265,470,160	258,418,727	260,024,511	279,442,920	300,352,569	290,871,093	315,134,417	344,791,030
Alabama	3,485,318	4,730,116	4,407,856	3,348,079	2,654,296	7,237,806	9,255,656	7,658,433	6,921,982	2,014,658	3,601,526	3,601,526	2,211,001	3,692,380	5,360,260	5,805,616
Alaska	1,277,167	1,394,600	2,567,000	227,182	475,913	2,776,684	2,000,660	504,000	1,280,000	1,080,000	2,687,327	5,340,365	8,565,493	4,808,710	5,625,392	6,841,040
Arizona	2,624,700	2,175,550	1,756,700	1,817,300	1,737,800	1,261,685	1,258,900	851,449	919,757	2,500,355	1,356,182	1,473,269	3,179,987	1,414,933	2,064,934	1,389,618
Arkansas	881,000	1,064,332	927,990	2,057,208	1,915,324	1,269,000	1,486,000	639,945	1,266,550	1,013,231	855,437	690,108	376,215	1,079,240	1,936,385	198,644
California	40,057,000	38,136,000	37,445,000	36,897,000	35,038,000	35,560,150	35,201,005	38,340,899	35,515,719	36,225,667	34,906,443	41,248,806	47,716,505	39,260,000	49,446,825	53,967,136
Colorado	1,424,481	1,930,506	2,270,155	1,623,980	2,338,837	2,099,101	1,881,210	1,476,466	1,128,528	1,750,822	3,288,163	3,268,633	3,791,995	3,395,841	4,408,335	5,129,531
Connecticut	3,777,288	4,028,757	4,011,628	4,018,000	4,100,000	3,936,126	5,409,867	2,370,317	3,516,438	3,150,000	3,283,420	2,734,495	2,408,289	2,971,742	3,907,816	3,566,574
Delaware	250,000	250,000	250,000	2,404,027	1,974,596	255,213	141,621	845,618	1,293,881	1,156,679	1,100,760	1,336,168	1,167,639	1,205,970	1,437,372	1,425,604
District of Columbia	0	192,931	264,380	1,361,999	987,742	754,327	828,377	1,532,145	919,305	723,440	422,412	239,295	289,382	245,919	623,962	496,322
Florida	9,830,053	9,804,294	15,645,022	11,836,984	10,300,582	15,054,989	11,121,055	12,932,838	14,112,753	16,470,858	15,367,289	13,322,175	11,527,555	14,134,393	15,501,144	14,773,125
Georgia	4,162,887	7,723,795	10,290,663	9,012,569	8,698,341	6,095,576	3,842,272	5,089,460	5,586,082	8,738,202	8,034,229	8,599,878	6,599,041	4,505,966	7,003,378	9,075,430
Hawaii	2,339,180	2,672,356	561,367	881,851	1,230,056	1,148,448	1,338,452	1,023,488	786,590	595,364	802,000	487,500	5,013,530	2,793,386	1,735,402	2,937,628
Idaho	1,318,377	1,406,718	1,580,312	1,368,700	1,929,300	2,161,329	1,436,567	2,015,633	1,956,415	1,861,276	3,339,242	3,317,794	2,144,749	2,852,305	2,862,749	2,633,825
Illinois	5,369,057	7,066,133	9,287,308	7,354,832	8,719,083	9,517,493	9,602,367	10,148,743	9,969,256	7,834,288	9,458,562	9,710,698	9,430,989	9,782,913	10,233,989	9,744,978
Indiana	4,000,000	5,616,545	4,074,838	6,927,051	8,444,691	10,584,435	7,483,614	5,021,323	6,477,522	10,641,648	8,495,933	8,734,644	8,261,486	9,312,575	12,624,242	24,294,542
Iowa	6,463,700	5,770,000	6,050,000	7,638,920	9,485,810	4,581,695	5,829,951	6,645,953	4,785,941	5,543,815	5,190,691	7,228,882	6,942,156	6,142,926	7,117,988	9,132,038
Kansas	7,416,636	5,039,914	5,002,773	5,147,330	4,724,025	3,923,777	3,749,587	3,872,000	3,049,000	3,960,800	3,714,875	3,637,912	3,237,535	3,765,115	3,882,450	3,630,258
Kentucky	4,228,240	4,042,181	4,425,113	3,324,600	1,964,500	5,769,400	6,294,300	8,442,000	7,461,167	7,152,574	7,020,302	7,158,996	8,931,685	8,781,665	8,125,749	9,991,432
Louisiana	6,717,882	6,642,447	6,396,052	6,975,472	6,965,116	11,000,000	11,000,000	9,000,000	9,000,000	9,500,000	10,000,000	9,200,000	9,185,327	10,065,406	8,562,086	54,281
Maine	563,379	709,306	505,860	354,463	521,444	868,000	1,003,000	1,253,000	903,000	780,000	1,136,000	824,000	1,500,000	1,558,635	1,185,950	1,854,258
Maryland	2,209,280	3,167,924	4,080,017	1,928,111	1,778,080	1,590,096	882,171	711,454	2,011,643	2,313,219	1,735,096	3,660,436	2,211,739	2,643,003	1,886,593	2,568,105
Massachusetts	0	1,637,025	1,504,260	0	0	0	0	0	3,480,037	1,700,000	4,425,000	3,840,000	3,767,017	4,050,000	7,849,400	8,177,210
Michigan	6,103,101	4,640,000	5,125,000	8,900,000	7,700,000	5,500,000	5,500,000	6,200,000	6,820,000	5,780,534	5,132,200	6,610,319	6,812,098	6,225,844	6,977,495	7,744,071
Minnesota	13,908,648	7,853,451	9,222,369	7,427,179	11,089,502	11,147,618	11,558,082	13,401,308	9,925,085	10,782,862	11,092,823	11,619,600	14,081,495	15,618,920	13,048,837	16,990,060
Mississippi	1,518,130	1,883,735	2,463,770	4,801,812	3,300,936	288,622	212,557	1,263,531	2,106,750	1,961,803	5,991,596	4,417,666	5,542,522	3,300,333	2,763,759	3,205,084
Missouri	5,495,716	3,657,806	5,043,082	3,190,008	3,372,137	3,985,039	4,066,030	1,190,224	1,289,739	1,356,738	1,830,194	1,557,401	2,120,015	2,646,956	3,342,278	4,028,969
Montana	876,558	917,662	1,168,956	1,418,422	2,061,516	1,418,000	1,663,000	2,886,974	1,215,380	722,979	820,527	1,810,989	1,732,922	1,971,362	1,831,760	1,978,265
Nebraska	1,014,814	986,918	1,123,236	1,647,512	1,721,453	1,708,434	1,810,483	2,966,171	1,373,075	1,355,258	1,409,861	1,985,947	1,735,953	1,270,607	1,239,135	1,788,598
Nevada	1,510,607	1,048,465	1,393,048	1,119,857	1,595,463	3,257,663	2,914,364	1,554,297	1,860,066	921,936	973,452	1,298,811	1,588,437	1,632,800	1,330,439	1,317,935
New Hampshire	1,167,264	1,009,986	1,196,452	1,380,083	1,226,961	786,600	844,700	260,640	673,806	669,797	807,378	661,587	605,207	734,656	723,467	871,739
New Jersey	4,153,340	6,570,052	5,542,644	3,243,333	3,985,296	3,687,478	3,798,842	4,414,453	6,672,869	6,064,082	2,717,094	3,125,627	5,440,354	7,239,506	2,596,557	5,097,040
New Mexico	1,655,529	1,422,955	1,821,583	941,856	1,249,365	1,648,017	1,577,835	1,352,087	502,000	1,403,431	1,377,302	2,808,156	1,316,767	1,400,300	770,937	2,106,925
New York	12,445,993	13,024,897	12,191,046	6,071,256	12,838,391	9,321,647	6,850,569	10,571,211	10,836,858	14,441,199	8,842,589	9,463,758	11,189,625	10,073,889	14,085,670	4,480,681
North Carolina	9,000,000	9,225,000	9,500,000	8,884,000	6,548,000	5,688,066	5,534,981	6,864,896	7,395,578	8,661,785	7,959,645	8,877,335	10,882,065	9,103,250	7,864,239	10,169,513
North Dakota	963,611	598,349	578,559	569,931	584,875	596,824	407,000	899,987	1,902,328	2,592,127	1,336,855	3,635,470	1,204,774	1,298,374	1,820,328	1,539,234
Ohio	10,308,223	13,111,393	17,281,878	20,745,056	22,035,664	16,507,471	10,142,447	12,713,029	12,015,510	7,078,867	6,886,766	6,249,317	6,276,848	6,349,868	5,432,652	6,007,875
Oklahoma	3,818,308	3,845,728	4,101,968	2,497,372	4,030,997	4,873,928	3,817,249	4,554,002	4,365,557	5,700,014	6,849,411	6,480,977	4,963,501	4,292,220	4,740,677	5,015,636

Table 13. State government expenditures for transportation-related R&D, by state: FYs 2009–24

(Dollars)

State	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oregon	2,705,721	2,481,963	2,494,162	2,004,957	2,639,702	2,290,000	2,938,000	1,960,000	3,120,794	3,445,111	5,411,595	2,460,479	3,638,363	7,385,549	8,590,054	3,802,532
Pennsylvania	5,815,684	2,979,258	3,919,294	4,034,828	3,842,683	3,095,997	2,438,279	3,889,274	2,714,547	1,714,300	3,913,899	3,934,697	5,576,553	4,100,235	4,800,272	4,086,264
Rhode Island	446,433	283,838	445,082	334,093	541,470	1,576,999	1,436,793	183,000	1,164,842	0	1,225,000	0	185,472	900,000	1,687,000	1,050,000
South Carolina	2,476,225	1,384,632	1,581,676	1,967,442	1,942,501	1,594,110	2,160,647	2,225,883	2,497,762	2,178,465	2,159,379	1,851,635	2,646,350	2,581,949	2,339,150	2,046,024
South Dakota	2,069,310	2,098,898	2,000,267	1,477,644	1,811,337	1,798,604	1,236,834	1,722,981	1,550,351	1,670,091	1,222,798	1,321,098	1,178,029	2,109,493	1,904,042	2,046,079
Tennessee	3,752,587	1,064,262	3,286,726	3,369,468	2,505,628	3,780,473	3,256,696	2,911,522	3,528,759	2,659,034	3,107,664	2,650,589	6,683,667	5,399,804	3,234,659	18,157,736
Texas	22,535,124	25,071,272	23,851,121	22,715,697	20,671,237	13,640,184	19,803,109	28,049,226	26,213,677	17,247,836	17,294,677	20,694,167	20,505,965	24,982,335	24,220,565	22,375,505
Utah	800,000	2,600,000	2,600,000	2,030,000	2,430,000	2,293,133	1,470,900	2,375,221	3,955,036	3,374,087	3,435,069	3,141,698	3,315,176	2,684,063	2,729,191	2,926,193
Vermont	738,707	666,981	493,856	705,916	836,839	1,007,865	793,005	698,263	924,025	1,625,848	2,211,617	1,081,391	1,097,307	843,185	935,387	890,741
Virginia	9,443,286	8,931,272	8,469,431	9,974,446	14,128,627	12,779,955	17,554,526	16,692,096	15,877,244	15,739,313	12,889,933	19,782,914	18,505,828	16,489,762	19,463,187	24,182,863
Washington	2,285,130	5,402,675	5,095,830	4,893,607	4,257,879	5,450,000	5,450,000	5,607,000	4,852,000	4,852,000	5,596,000	4,890,000	7,528,900	4,527,700	6,136,300	5,472,000
West Virginia	950,000	5,100,000	5,583,425	2,518,000	2,729,000	2,477,760	2,193,922	2,690,000	3,935,000	2,400,000	2,124,711	2,028,215	2,257,746	2,260,000	2,086,106	2,201,284
Wisconsin	5,030,145	3,572,299	4,115,612	4,828,319	6,215,294	3,843,195	3,106,681	3,038,585	2,884,850	4,084,993	3,754,645	4,106,692	2,176,168	4,217,027	4,310,941	4,157,964
Wyoming	900,986	687,017	506,556	1,872,582	1,637,853	1,230,873	986,181	1,085,282	955,106	1,227,341	1,428,942	1,240,805	1,105,147	768,083	746,932	1,367,025
Puerto Rico ^b	200,000	180,000	180,000	200,000	200,000	560,000	560,000	na	na	na	na	na	na	0	1,641,919	45,784

na = not applicable; did not report to survey.

^a U.S. total reflects all 50 states and the District of Columbia.^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Note(s):**

State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

Table 14. State government expenditures for other R&D functions not separately identified, by state: FYs 2009–24

(Dollars)

State	2009 ^a	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
United States ^b	324,394,437	143,020,206	194,003,452	168,806,778	175,751,245	161,254,411	164,001,971	175,314,245	223,723,280	221,761,855	170,319,834	155,473,832	177,356,368	255,887,929	314,043,086	237,280,264
Alabama	1,749,771	472,892	475,402	336,920	144,180	5,801,167	5,743,808	4,156,899	3,954,359	4,767,179	5,422,102	14,046,688	19,074,334	11,655,697	12,352,059	8,990,666
Alaska	0	0	0	0	0	0	0	0	0	0	0	0	0	1,067,928	0	0
Arizona	134,587	742,869	361,685	0	0	0	0	0	0	139,859	0	559,621	610,954	561,258	715,000	216,653
Arkansas	3,482,899	4,343,045	1,994,713	557,653	378,064	367,653	635,381	3,046,876	3,391,597	2,517,653	967,697	853,429	1,525,000	1,510,815	217,604	2,998,121
California	78,620,000	2,798,033	1,657,802	3,914,236	3,532,072	15,078,629	10,694,395	19,762,981	20,665,387	18,239,659	16,500,248	11,490,937	8,483,554	13,115,803	9,060,054	8,266,427
Colorado	661,000	937,051	934,066	902,386	989,741	1,304,741	1,945,853	2,282,691	5,291,487	7,938,023	8,567,133	7,041,385	8,222,524	13,471,113	10,499,182	14,340,096
Connecticut	0	0	0	0	0	6,275,000	5,126,590	6,067,653	9,471,359	8,441,757	9,579,524	7,538,344	5,894,102	12,402,675	7,493,093	12,671,951
Delaware	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	78,502	138,118	0	0	87,400	83,698	252,283	34,566	94,094	182,776	403,963
Florida	860,000	295,290	1,961,528	933,175	2,205,335	0	0	0	0	0	0	88,406	100,000	100,000	100,000	0
Georgia	2,500,000	200,000	200,000	400,000	0	0	0	0	0	0	0	31,813	0	0	0	0
Hawaii	6,906,722	0	0	0	0	667,972	773,071	846,154	0	1,054,083	1,436,565	1,806,130	203,500	665,000	805,000	690,600
Idaho	0	0	0	0	0	0	0	211,098	0	368,772	436,773	242,114	376,305	0	17,500	0
Illinois	19,540	6,700,823	7,239,804	6,100,402	5,504,428	8,151,913	14,189,053	4,054,706	3,774,000	6,474,099	4,084,838	2,804,910	2,468,113	2,347,655	2,814,959	2,749,246
Indiana	21,423,543	1,128,287	1,208,526	413,937	360,000	2,061,287	1,773,787	7,092,309	7,078,946	6,124,290	2,851,256	520,000	678,500	1,940,000	6,440,451	4,719,658
Iowa	31,512,943	105,480	710,999	22,475	22,484	522,607	457,808	431,450	421,109	497,171	337,061	417,493	472,395	626,038	632,002	375,000
Kansas	2,698,381	0	0	0	0	107,479	1,125,847	1,307,150	2,097,137	1,753,805	996,465	998,756	998,754	997,727	1,000,314	1,000,950
Kentucky	3,684,117	2,734,995	3,382,158	675,726	630,162	984,267	1,611,896	4,234,982	6,190,489	561,098	0	1,651,000	1,413,739	1,578,217	1,561,654	1,693,226
Louisiana	0	0	577,544	862,067	573,126	0	0	0	13,674,007	13,078,673	8,712,529	4,259,471	9,075,190	9,272,639	9,494,495	16,720,722
Maine	2,178,872	4,104,324	3,609,925	2,954,810	2,183,936	2,000,000	4,268,000	3,097,000	3,560,926	4,849,586	9,750,028	8,348,636	8,814,847	4,232,010	16,906,121	9,463,693
Maryland	2,893,023	1,300,000	1,300,000	547,102	1,453,129	0	0	800,000	810,000	2,166,739	1,686,554	2,658,368	0	0	58,442	0
Massachusetts	0	0	486,173	0	0	0	0	0	2,972,231	3,425,000	6,870,000	6,775,000	5,169,336	1,305,697	2,123,113	6,563,650
Michigan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,700,000	1,950,000
Minnesota	192,945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,033,353
Mississippi	0	100,000	412,000	0	0	0	0	0	0	0	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Montana	2,430,542	931,417	213,841	7,000	12,600	139,144	271,145	7,934,963	7,713,943	382,684	382,684	0	0	50,000	0	0
Nebraska	40,000	0	0	1,048,383	1,282,862	197,500	97,387	0	0	200,000	157,763	1,066,000	1,072,155	3,933,774	3,122,435	2,866,732
Nevada	0	0	0	0	0	0	0	4,078,492	9,131,829	6,120,737	6,584,759	3,055,388	1,958,195	1,327,253	1,447,334	1,804,890
New Hampshire	500,000	475,000	500,000	384,000	123,000	300,000	300,000	374,999	449,146	7,382,570	7,400,216	7,333,128	7,301,367	7,055,631	89,547	79,414
New Jersey	310,000	750,000	0	0	0	0	0	0	0	0	3,111,979	3,543,318	3,131,288	5,352,022	9,438,008	9,568,745
New Mexico	0	0	0	538,787	207,445	1,156,400	1,237,700	1,800,000	2,663,461	146,155	17,000	103,000	108,053	105,527	0	79,968
New York	43,358,014	34,300,000	43,500,000	29,975,639	46,870,153	48,029,330	49,698,758	47,586,721	48,217,604	48,216,789	28,702,682	26,276,536	15,675,047	92,678,434	84,768,308	46,631,693
North Carolina	916,162	265,000	261,000	2,689,346	3,017,144	500,000	4,396,029	3,692,598	104,672	302,439	290,671	480,186	891,454	2,489,577	1,105,281	941,840
North Dakota	13,828,867	133,500	263,000	164,400	372,000	0	0	0	0	0	0	223,743	247,149	93,115	1,034,581	1,326,254
Ohio	63,460,096	12,904,375	43,062,744	42,699,340	66,895,354	30,550,059	27,255,184	17,617,411	14,184,490	16,412,659	9,405,378	4,831,720	6,851,921	4,869,165	36,600,124	1,890,002
Oklahoma	2,152,790	9,017,136	6,460,924	4,088,727	2,419,202	2,268,709	2,263,698	2,970,545	3,770,097	742,842	1,054,738	1,110,061	29,777,125	1,816,735	1,471,588	864,608

Table 14. State government expenditures for other R&D functions not separately identified, by state: FYs 2009–24

(Dollars)

State	2009 ^a	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oregon	0	0	0	0	0	1,835,000	1,800,000	5,719,447	3,300,000	5,890,071	6,725,794	5,922,851	8,848,396	2,193,526	2,149,412	1,357,000
Pennsylvania	13,490,838	5,289,000	4,000,000	8,021,714	5,728,373	8,754,500	8,114,286	4,700,000	32,650,000	36,950,000	10,905,196	11,974,987	1,874,000	4,943,571	4,227,627	7,890,146
Rhode Island	0	0	0	200,000	0	479,906	107,997	1,434,966	778,812	489,904	580,675	540,100	562,327	202,000	0	436,597
South Carolina	518,619	33,179,054	35,190,338	22,471,369	7,888,340	2,056,900	927,325	2,718,162	3,076,392	569,623	937,457	300,983	1,610,976	2,022,292	1,579,405	641,540
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50,000
Tennessee	0	0	0	61,313	58,348	0	0	2,830,000	5,042,000	4,965,000	3,319,120	3,363,577	2,670,514	33,245,253	64,171,745	50,678,612
Texas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187,844	0
Utah	8,082,988	1,650,000	1,950,000	0	0	5,056,613	3,049,085	4,547,529	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	415,612	0	0	0	0	90,998	0	0	0	0
Virginia	6,846,941	2,883,797	1,928,981	4,218,088	2,342,026	4,009,135	2,826,630	1,865,685	1,909,264	2,409,069	3,552,012	3,329,588	10,681,336	6,378,361	10,486,256	8,707,866
Washington	0	0	0	3,046,202	3,370,552	2,967,873	3,285,711	3,282,013	3,235,997	3,354,053	3,344,321	3,279,219	3,408,658	3,221,766	3,337,518	3,918,652
West Virginia	7,602,237	14,453,838	25,129,599	29,251,581	14,435,189	7,422,125	7,341,817	1,577,385	1,574,886	1,564,077	1,776,758	2,782,045	2,238,929	2,667,574	1,251,754	1,197,730
Wisconsin	1,338,000	825,000	5,030,700	1,320,000	2,752,000	2,130,000	2,130,000	2,000,000	1,500,000	2,141,000	3,000,000	2,750,000	3,625,125	3,942,432	1,030,500	1,500,000
Wyoming	0	0	0	0	0	0	0	1,191,380	1,067,653	1,037,337	788,160	731,620	1,206,640	355,555	1,370,000	0
Puerto Rico ^c	1,731,697	601,391	587,869	350,654	940,348	795,212	757,107	na	na	na	na	na	na	4,884,573	11,414,787	6,878,776

na = not applicable; did not report to survey.

^a Energy category was introduced with the FY 2010 and FY 2011 Survey of State Government Research and Development. Previously, energy-related R&D was reported primarily in the other category and in the environment and natural resources category.^b U.S. total reflects all 50 states and the District of Columbia.^c Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Note(s):**

State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D. Other R&D functions includes but is not limited to corrections, criminal justice, education, forensic science, labor, public safety, and social services functions.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

Table 15. State government expenditures for R&D funded from federal sources, by state: FYs 2006–24

(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
United States ^a	255,400,683	279,267,900	NA	427,193,729	535,196,259	566,896,209	541,892,652	525,458,601	483,187,498	482,539,820	509,239,249	540,645,678	532,149,801	560,855,931	607,588,752	619,502,305	701,256,752	742,245,878	726,727,808
Alabama	3,636,117	4,968,557	NA	8,118,750	11,332,512	12,632,066	12,966,760	6,682,218	7,543,639	8,931,316	13,217,714	11,383,605	8,523,193	8,126,730	6,774,915	6,067,898	10,458,091	16,054,899	14,276,152
Alaska	5,647,941	4,945,800	NA	2,956,434	2,766,100	4,548,900	206,004	395,154	3,871,691	2,812,832	1,709,208	2,419,834	2,275,990	4,540,940	6,143,917	11,068,861	8,260,099	7,296,267	10,267,681
Arizona	5,659,756	5,436,201	NA	6,302,846	7,013,167	8,138,077	12,004,585	14,307,201	8,490,200	8,321,298	5,300,664	3,437,562	4,329,332	2,973,198	3,766,942	5,070,319	3,330,756	4,679,113	4,491,477
Arkansas	2,066,318	1,224,152	NA	3,578,975	2,473,992	4,465,149	8,031,452	8,588,120	5,015,200	6,238,800	7,575,244	6,581,901	6,295,667	5,674,217	4,966,349	983,181	1,840,818	3,269,056	4,305,361
California	27,867,854	13,491,703	NA	21,031,780	23,698,863	21,016,057	22,646,488	20,235,896	19,504,949	20,343,864	22,209,845	29,772,940	33,014,863	28,877,496	22,657,670	25,470,130	20,301,828	31,928,041	22,058,608
Colorado	4,044,780	4,684,285	NA	4,612,094	6,363,519	5,930,771	5,170,087	6,017,553	4,133,204	3,668,094	3,112,212	4,193,326	4,897,272	7,347,294	6,659,704	6,546,643	4,972,373	6,114,448	6,746,764
Connecticut	6,735,926	6,906,959	NA	6,507,528	11,067,425	11,158,166	11,904,666	13,751,916	12,150,832	13,036,055	13,926,972	13,638,682	13,800,338	15,827,200	15,873,807	15,879,739	14,622,416	21,341,245	27,568,730
Delaware	277,211	844,200	NA	566,184	796,963	847,732	1,687,502	1,684,136	691,432	862,471	1,210,192	1,548,842	1,742,603	1,572,165	1,476,864	1,355,648	1,533,976	1,721,282	1,897,241
District of Columbia	938,460	1,621,000	NA	487,411	657,612	1,168,232	1,712,507	1,467,091	1,277,405	1,035,397	848,770	1,249,571	2,359,043	2,025,098	2,560,026	6,245,794	8,368,175	8,515,771	6,289,673
Florida	9,887,481	9,439,483	NA	13,605,050	27,629,492	26,588,661	26,701,503	25,537,040	25,536,046	22,302,689	21,594,312	26,259,352	26,978,471	24,512,331	30,382,990	25,068,596	27,469,288	25,903,893	27,258,970
Georgia	5,545,780	2,763,180	NA	2,918,071	5,018,230	6,919,140	8,600,759	10,454,723	10,548,856	8,055,609	11,377,179	12,488,470	16,868,348	16,171,100	14,101,354	17,725,257	16,555,047	16,287,488	22,866,593
Hawaii	8,578,749	17,593,176	NA	10,716,399	11,483,268	10,343,631	8,180,435	9,594,181	9,214,342	6,940,018	13,543,956	8,424,072	6,649,466	3,667,466	7,330,911	8,334,826	3,397,342	2,563,321	2,839,012
Idaho	652,451	1,276,787	NA	3,986,193	4,716,185	4,925,050	6,959,273	7,971,555	8,208,360	7,130,703	8,670,010	8,699,138	7,910,743	10,596,005	12,620,448	9,698,956	11,009,398	11,364,333	7,184,984
Illinois	1,521,332	1,990,000	NA	3,414,851	4,851,170	7,033,966	5,421,531	6,176,896	7,032,929	6,913,774	9,304,530	6,902,678	5,330,301	6,900,290	7,641,755	17,876,553	17,698,320	25,771,315	7,426,437
Indiana	4,428,024	4,017,815	NA	4,681,045	6,559,869	5,428,287	6,187,545	7,252,510	9,738,835	7,358,178	5,189,705	5,270,053	6,000,000	6,100,000	7,126,764	6,875,499	7,098,396	9,162,767	20,284,519
Iowa	4,388,234	2,424,713	NA	1,949,200	4,210,203	3,391,265	3,370,143	3,960,205	5,481,288	5,615,415	5,714,200	4,745,317	5,823,675	5,215,707	7,734,114	4,841,194	5,359,474	5,714,355	7,697,318
Kansas	4,864,624	4,107,233	NA	5,619,610	3,625,557	3,675,258	3,356,770	2,983,235	2,360,850	2,138,068	4,036,102	4,875,065	5,768,271	5,465,441	6,612,890	8,343,437	9,188,967	2,627,935	4,104,543
Kentucky	6,823,866	6,315,996	NA	4,755,197	5,263,230	5,873,846	6,170,250	4,316,909	5,266,569	5,935,717	8,070,770	8,364,540	7,475,368	6,577,173	6,273,543	7,548,030	10,566,579	9,546,502	12,003,764
Louisiana	6,382,762	4,125,505	NA	4,539,936	4,929,033	5,536,833	7,295,467	7,412,982	9,900,000	10,012,449	14,853,950	24,199,118	21,892,547	21,317,872	19,251,675	19,523,775	17,690,354	18,445,998	29,642,130
Maine	0	65,000	NA	1,304,294	1,836,035	2,439,296	1,167,751	1,158,805	2,038,174	2,952,778	3,557,605	3,276,573	3,057,355	3,830,784	4,162,595	12,263,843	13,633,417	37,765,217	20,973,235
Maryland	5,053,001	7,228,749	NA	4,234,200	1,643,939	1,551,214	1,888,327	1,944,190	1,782,810	1,649,862	940,143	2,557,338	4,220,626	2,924,655	4,016,621	2,005,962	1,732,396	1,336,954	1,715,671
Massachusetts	1,125,989	1,200,525	NA	379,847	814,609	1,209,020	1,328,828	1,803,176	5,480,624	6,490,647	6,615,788	8,499,880	6,838,085	10,952,465	11,397,894	6,047,993	7,056,757	8,462,093	15,112,369
Michigan	4,127,849	3,910,171	NA	6,054,036	6,885,798	7,110,347	8,187,688	8,454,896	8,417,785	8,346,295	9,760,802	9,352,419	5,774,656	4,579,680	7,184,297	6,912,826	6,869,738	9,084,859	7,824,233
Minnesota	2,002,686	3,083,506	NA	4,864,789	3,457,202	3,782,840	3,718,840	3,652,840	4,827,540	4,814,486	6,772,202	4,757,077	4,443,333	6,020,868	6,272,311	7,689,513	8,566,979	8,729,109	11,049,227
Mississippi	2,285,202	6,272,085	NA	2,926,523	5,671,257	5,454,392	5,174,275	3,937,121	971,637	618,485	2,036,701	3,479,041	5,695,540	8,869,165	8,768,392	9,061,908	7,914,852	8,564,182	10,091,295
Missouri	5,473,754	4,962,973	NA	5,556,085	3,161,177	4,103,709	3,702,943	3,521,812	4,887,547	5,641,298	3,684,515	3,979,736	4,114,609	5,102,079	5,750,412	4,240,386	4,836,862	6,265,084	5,842,791
Montana	2,913,589	1,837,440	NA	2,249,403	2,659,895	2,868,954	2,907,039	3,463,568	3,254,014	3,672,296	4,640,449	5,546,645	4,365,342	4,577,231	6,777,890	5,600,354	5,647,319	6,762,205	10,220,896
Nebraska	1,940,130	1,275,191	NA	1,162,077	878,999	1,071,515	1,900,163	1,973,878	1,607,015	1,668,537	2,703,884	1,406,169	1,681,576	4,371,507	6,818,177	6,288,269	3,981,578	3,354,005	4,858,608
Nevada	505,000	1,115,700	NA	1,242,142	688,933	320,608	469,512	1,001,898	2,771,066	2,515,000	1,752,237	2,091,202	1,147,161	2,370,078	1,606,707	2,001,509	2,068,342	1,518,169	3,996,024
New Hampshire	1,793,026	1,599,228	NA	937,998	896,396	1,081,852	1,302,649	1,071,409	959,521	1,113,769	683,400	874,200	694,217	715,823	639,820	631,502	756,259	696,744	880,500
New Jersey	2,927,179	4,040,714	NA	4,293,720	3,735,882	4,387,432	3,628,894	3,989,987	3,453,756	4,041,326	4,398,146	6,367,385	5,773,046	2,890,436	3,299,908	5,466,394	6,943,253	3,174,803	7,255,307
New Mexico	0	538,337	NA	1,324,423	1,072,611	1,443,195	1,434,849	1,592,483	2,086,119	1,966,767	1,959,974	1,325,804	2,201,370	2,415,620	4,238,566	2,152,671	2,479,360	1,770,272	2,759,937
New York	11,175,919	7,858,707	NA	160,779,049	175,534,885	174,021,455	156,066,229	154,054,612	162,053,306	150,683,260	142,916,034	153,685,522	150,807,413	156,961,125	173,176,058	166,507,446	246,154,735	213,112,444	182,565,089
North Carolina	8,043,625	13,118,979	NA	8,477,435	10,223,740	11,187,114	7,904,917	6,075,886	6,418,931	15,605,925	15,392,504	7,949,309	9,085,073	8,477,781	9,125,937	11,005,615	9,627,170	7,435,519	10,675,391
North Dakota	5,957,704	3,713,936	NA	1,895,456	575,654	557,822	540,086	564,878	1,199,176	1,020,728	1,172,763	2,327,432	2,965,210	2,299,808	4,025,187	6,863,870	1,904,626	2,813,356	3,282,943
Ohio	8,767,534	8,253,286	NA	5,141,853	3,351,457	4,455,517	6,415,795	10,584,324	6,979,454	6,437,833	9,624,514	9,889,818	9,948,825	8,126,122	8,463,693	8,732,356	8,153,111	6,092,750	7,912,257
Oklahoma	643,333	3,296,216	NA	5,120,111	5,229,705	6,138,385	5,283,506	8,289,178	8,986,041	7,578,340	8,390,649	11,350,041	8,183,905	10,192,859	7,922,136	7,560,791	7,056,971	7,359,723	8,868,965

Table 15. State government expenditures for R&D funded from federal sources, by state: FYs 2006–24

(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oregon	2,245,190	2,470,211	NA	3,957,639	12,870,466	14,753,575	17,582,132	16,942,402	9,815,170	10,390,644	9,900,748	11,365,484	13,498,683	17,340,000	11,978,580	14,233,548	13,854,858	16,966,844	15,017,978
Pennsylvania	4,278,736	5,321,876	NA	5,975,911	5,882,402	6,652,868	6,442,990	6,002,259	5,353,083	4,830,151	5,686,837	7,498,785	6,801,366	9,903,377	19,656,077	10,315,593	10,203,586	12,247,746	10,770,884
Rhode Island	150,000	403,939	NA	396,154	281,728	515,480	487,305	664,190	1,251,398	1,114,694	1,361,000	1,470,052	852,644	2,473,315	1,918,239	6,631,735	5,740,186	3,666,349	1,468,800
South Carolina	19,731,986	29,773,259	NA	22,877,576	59,873,605	71,204,639	59,056,716	33,931,311	16,290,802	20,114,487	20,737,825	23,646,742	24,143,358	23,400,794	30,291,219	27,721,413	29,762,759	34,218,558	33,026,390
South Dakota	3,011,796	3,847,153	NA	3,522,778	3,145,143	2,882,410	2,618,318	2,840,315	1,427,976	1,003,921	1,255,737	909,739	1,150,602	754,880	752,592	725,396	1,338,277	1,549,087	1,483,401
Tennessee	4,658,000	3,638,000	NA	3,002,070	851,410	2,985,145	3,594,115	2,906,011	3,368,748	2,903,575	5,128,836	5,755,973	5,385,899	5,112,715	4,792,328	7,551,808	16,915,160	21,382,255	14,928,353
Texas	20,318,659	19,853,357	NA	22,174,250	21,943,248	21,488,561	20,949,356	20,382,696	17,280,822	21,106,336	28,647,673	28,163,945	20,766,503	21,003,405	23,192,709	23,447,625	27,162,975	29,590,735	25,352,494
Utah	1,800,000	1,880,823	NA	5,593,015	20,724,230	20,687,819	21,153,987	25,727,343	755,484	1,077,198	807,539	1,711,697	1,355,017	2,294,696	1,721,014	1,701,485	1,669,847	1,301,894	1,631,793
Vermont	1,282,280	783,845	NA	610,565	1,100,865	1,184,957	1,121,698	1,240,063	1,583,729	1,183,900	905,065	940,123	1,647,291	2,225,472	1,119,199	1,081,618	1,295,178	2,608,039	1,510,067
Virginia	6,387,630	9,427,028	NA	11,409,211	9,370,939	9,735,857	9,710,044	8,149,554	12,804,594	13,040,444	10,654,905	9,141,544	9,633,966	12,948,118	14,998,852	19,106,082	16,230,355	21,236,524	22,432,942
Washington	7,728,621	8,091,640	NA	5,925,432	9,841,190	9,420,257	8,462,965	8,292,342	11,078,789	12,398,340	11,677,113	9,374,759	11,948,543	14,915,365	14,747,139	17,162,043	15,068,376	16,343,423	18,223,736
West Virginia	2,663,801	5,008,707	NA	3,733,032	7,830,732	6,157,841	8,139,084	7,256,479	6,299,975	7,333,474	3,729,381	6,799,242	6,681,206	7,579,295	6,903,375	5,247,993	4,275,461	3,970,816	5,973,233
Wisconsin	4,772,502	6,316,820	NA	8,656,553	7,890,044	15,611,863	9,632,605	13,741,242	9,388,919	9,471,310	8,658,738	8,233,839	6,971,498	9,448,498	8,358,684	5,893,866	9,117,475	10,491,049	11,746,392
Wyoming	1,688,296	10,903,754	NA	1,068,548	815,693	809,183	1,345,319	1,457,932	2,346,866	2,100,967	1,620,007	2,464,097	2,380,392	2,290,192	3,555,506	3,124,556	3,516,837	4,067,042	8,066,650
Puerto Rico ^b	103,503	0	NA	4,946,080	1,702,000	1,850,000	4,070,151	3,931,918	1,489,553	1,561,588	na	na	na	na	na	na	6,129,178	23,575,491	25,382,432

na = not applicable; did not report to survey. NA = not available; survey was not conducted for FY 2008.

^a U.S. total reflects all 50 states and the District of Columbia.^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Note(s):**

State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

Table 16. State government expenditures for R&D funded from federal sources, by state and federal agency: FY 2024

(Dollars)

State	Total federal	DOC	DOD	DOE	DOI	DOT	ED	EPA	HHS	NSF	USDA	Other ^a
United States ^b	726,727,808	37,197,128	8,944,628	27,263,527	134,631,712	217,425,145	18,883,609	6,735,683	184,711,677	9,489,724	31,015,477	50,429,498
Alabama	14,276,152	442,351	230,052	308,667	2,935,104	4,999,506	3,455,433	0	0	603,075	100,276	1,201,688
Alaska	10,267,681	0	0	0	3,958,391	5,951,828	0	87,675	0	0	0	269,787
Arizona	4,491,477	0	0	0	1,786,414	1,137,694	0	0	0	0	1,567,369	0
Arkansas	4,305,361	0	0	0	2,201,270	158,915	0	0	0	1,905,468	39,708	0
California	22,058,608	0	0	20,000	1,650,837	19,855,792	0	262,034	0	0	100,471	169,474
Colorado	6,746,764	0	0	0	1,517,828	4,849,531	0	176,464	0	0	202,941	0
Connecticut	27,568,730	0	0	0	6,638,378	3,366,457	0	128,784	3,223,693	0	3,895,199	10,316,219
Delaware	1,897,241	254,885	0	0	460,626	1,097,505	0	84,225	0	0	0	0
District of Columbia	6,289,673	0	0	0	0	720,228	0	76,867	5,408,192	0	0	84,386
Florida	27,258,970	10,004,633	395,116	266,462	7,402,712	4,950,413	440,672	299,555	0	24,291	3,400,018	75,098
Georgia	22,866,593	0	0	13,213,649	1,764,852	7,888,092	0	0	0	0	0	0
Hawaii	2,839,012	0	252,000	0	0	2,210,308	0	0	138,184	0	238,520	0
Idaho	7,184,984	0	0	32,437	3,958,639	2,349,847	0	0	0	0	844,061	0
Illinois	7,426,437	0	0	0	0	7,426,437	0	0	0	0	0	0
Indiana	20,284,519	0	0	0	1,786,226	17,914,450	0	0	0	0	583,843	0
Iowa	7,697,318	0	0	0	2,277,289	5,016,796	0	0	0	0	278,233	125,000
Kansas	4,104,543	0	0	0	1,450,285	2,270,980	0	196,962	0	0	185,210	1,106
Kentucky	12,003,764	0	0	0	6,141,646	5,841,351	0	0	0	0	20,767	0
Louisiana	29,642,130	13,455	0	0	16,182,551	6,604,684	0	0	0	3,965,336	163,222	2,712,882
Maine	20,973,235	1,723,112	0	0	1,824,506	1,660,140	11,274	0	4,832,986	134,046	32,905	10,754,266
Maryland	1,715,671	0	0	0	0	1,715,671	0	0	0	0	0	0
Massachusetts	15,112,369	263,735	0	0	0	6,541,767	0	26,843	1,514,254	0	0	6,765,770
Michigan	7,824,233	0	0	666,906	0	5,670,482	0	32,720	852,096	0	206,682	395,347
Minnesota	11,049,227	0	0	0	1,365,230	8,138,927	0	100,000	0	0	1,307,070	138,000
Mississippi	10,091,295	1,371,375	0	0	4,440,399	3,106,505	0	0	0	0	270,332	902,684
Missouri	5,842,791	0	377,939	0	1,560,481	3,223,175	0	0	0	0	281,197	399,999
Montana	10,220,896	0	0	0	5,024,050	1,774,071	0	146,364	0	0	3,276,411	0
Nebraska	4,858,608	0	0	0	2,739,726	1,337,050	0	0	0	0	781,832	0
Nevada	3,996,024	0	0	0	70,442	1,434,242	0	144,314	0	0	147,026	2,200,000
New Hampshire	880,500	0	0	0	0	880,500	0	0	0	0	0	0
New Jersey	7,255,307	497,488	0	0	236,101	4,448,712	0	854,058	958,277	0	0	260,671
New Mexico	2,759,937	0	0	0	813,500	1,873,938	0	72,499	0	0	0	0
New York	182,565,089	8,265,274	6,334,134	177,600	750,759	3,149,432	500,000	888,935	158,610,481	323,805	2,387,200	1,177,469
North Carolina	10,675,391	535,607	0	0	834,103	9,305,681	0	0	0	0	0	0
North Dakota	3,282,943	0	0	0	1,793,003	1,489,940	0	0	0	0	0	0
Ohio	7,912,257	205,688	0	0	2,530,461	4,822,762	270,000	83,346	0	0	0	0
Oklahoma	8,868,965	0	0	0	2,609,822	4,179,110	0	0	1,275,333	0	804,700	0

Table 16. State government expenditures for R&D funded from federal sources, by state and federal agency: FY 2024

(Dollars)

State	Total federal	DOC	DOD	DOE	DOI	DOT	ED	EPA	HHS	NSF	USDA	Other ^a
Oregon	15,017,978	679,945	553,991	3,738,396	6,943,194	2,602,221	107,000	0	0	0	0	393,231
Pennsylvania	10,770,884	0	0	0	7,861,428	1,750,482	0	242,693	41,473	0	874,808	0
Rhode Island	1,468,800	272,028	0	0	366,772	830,000	0	0	0	0	0	0
South Carolina	33,026,390	10,513,523	583,066	142,136	14,088,809	1,336,003	0	13,455	5,101,416	0	1,177,777	70,205
South Dakota	1,483,401	0	0	0	0	1,483,401	0	0	0	0	0	0
Tennessee	14,928,353	0	0	5,892	0	1,573,231	13,349,230	0	0	0	0	0
Texas	25,352,494	0	0	0	0	18,417,384	0	0	0	0	705,148	6,229,962
Utah	1,631,793	0	0	0	0	1,303,789	0	328,004	0	0	0	0
Vermont	1,510,067	0	0	0	19,523	754,634	0	0	735,910	0	0	0
Virginia	22,432,942	761,668	0	163,239	3,789,419	9,164,317	750,000	314,056	693,558	0	1,249,581	5,547,104
Washington	18,223,736	1,392,361	218,330	2,893,212	4,426,294	2,568,000	0	1,876,908	1,325,824	0	3,522,807	0
West Virginia	5,973,233	0	0	0	1,439,352	1,761,028	0	0	0	2,533,703	0	239,150
Wisconsin	11,746,392	0	0	0	5,692,577	3,744,151	0	298,922	0	0	2,010,742	0
Wyoming	8,066,650	0	0	5,634,931	1,298,713	773,585	0	0	0	0	359,421	0
Puerto Rico ^c	25,382,432	0	0	0	0	0	0	456,172	6,766,015	0	72,517	18,087,728

DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; ED = Department of Education; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NSF = National Science Foundation; USDA = Department of Agriculture.

^a Other includes the Departments of Housing and Urban Development, Homeland Security, Justice, Labor, the Treasury, and Veterans Affairs; National Aeronautics and Space Administration; and others.

^b U.S. total reflects all 50 states and the District of Columbia.

^c Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

Note(s):

State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 17. State agency expenditures for R&D and R&D plant, by state department or agency and R&D performer: FY 2024

(Dollars)

State and department or agency	R&D performers ^a			R&D plant ^b		
	All	Intramural	Extramural	All	Intramural	Extramural
United States ^c	3,344,696,717	811,861,515	2,532,835,202	23,548,066	6,220,542	17,327,524
Alabama	65,159,736	9,263,588	55,896,148	0	0	0
Commerce, Department of	38,319,907	0	38,319,907	0	0	0
Conservation and Natural Resources, Department of; Wildlife and Freshwater Fisheries Division	2,735,751	0	2,735,751	0	0	0
Economic and Community Affairs, Department of	3,010,094	0	3,010,094	0	0	0
Education, Department of	3,899,855	1,880,279	2,019,576	0	0	0
Forensic Sciences, Department of	240,688	240,688	0	0	0	0
Geological Survey	3,631,424	3,631,424	0	0	0	0
Marine Environmental Science Consortium, Dauphin Island Sea Lab	3,261,291	3,261,291	0	0	0	0
Supercomputer Authority	4,500,525	0	4,500,525	0	0	0
Transportation, Department of	5,560,201	249,906	5,310,295	0	0	0
Alaska	18,477,002	12,699,964	5,777,038	0	0	0
Energy Authority	82,223	0	82,223	0	0	0
Environmental Conservation, Department of	122,970	64,051	58,919	0	0	0
Housing Finance Corporation	500,000	0	500,000	0	0	0
Natural Resources, Department of; Division of Geological and Geophysical Surveys	10,732,738	10,732,738	0	0	0	0
Railroad Corporation	3,007,378	1,375,175	1,632,203	0	0	0
Seafood Marketing Institute	178,293	0	178,293	0	0	0
Transportation and Public Facilities, Department of	3,853,400	528,000	3,325,400	0	0	0
Arizona	17,162,845	2,696,089	14,466,756	0	0	0
Agriculture, Department of	1,847,686	0	1,847,686	0	0	0
Game and Fish Department	1,989,306	1,685,239	304,067	0	0	0
Health Services, Department of	11,719,582	0	11,719,582	0	0	0
Juvenile Corrections, Department of	216,653	157,324	59,329	0	0	0
Transportation, Department of	1,389,618	853,526	536,092	0	0	0
Arkansas	13,727,825	1,397,218	12,330,607	0	0	0
Corn and Grain Sorghum Promotion Board	1,021,996	0	1,021,996	0	0	0
Economic Development Commission	2,998,121	0	2,998,121	0	0	0
Game and Fish Commission	3,142,997	1,354,449	1,788,548	0	0	0
Natural Heritage Commission	38,926	0	38,926	0	0	0
Rice Research and Promotion Board	2,927,141	0	2,927,141	0	0	0
Soybean Promotion Board	3,400,000	0	3,400,000	0	0	0
Transportation, Department of	198,644	42,769	155,875	0	0	0
California	800,971,651	106,617,344	694,354,307	0	0	0
Air Resources Board	19,974,359	11,961,830	8,012,529	0	0	0
Conservation, Department of	3,136,065	2,183,108	952,957	0	0	0
Corrections and Rehabilitation, Department of	2,226,717	0	2,226,717	0	0	0
Covered California	10,906,729	1,860,000	9,046,729	0	0	0
Dairy Council	100,000	0	100,000	0	0	0
Delta Stewardship Council	4,842,068	0	4,842,068	0	0	0
Earthquake Authority	75,000	75,000	0	0	0	0
Emergency Services Governor's Office	1,708,673	608,673	1,100,000	0	0	0
Energy Commission	246,371,838	31,186,420	215,185,418	0	0	0
Environmental Health Hazard Assessment, Office of	21,350,349	17,514,580	3,835,769	0	0	0
First 5 California	6,000,000	3,000,000	3,000,000	0	0	0
Food and Agriculture, Department of	6,164,999	0	6,164,999	0	0	0
Forestry and Fire Protection, Department of	14,178,000	2,678,000	11,500,000	0	0	0
Horse Racing Board	1,064,589	0	1,064,589	0	0	0
Housing and Community Development, Department of	500,350	500,350	0	0	0	0

Table 17. State agency expenditures for R&D and R&D plant, by state department or agency and R&D performer: FY 2024

(Dollars)

State and department or agency	R&D performers ^a			R&D plant ^b		
	All	Intramural	Extramural	All	Intramural	Extramural
Institute for Regenerative Medicine	297,497,898	0	297,497,898	0	0	0
Motor Vehicles, Department of	2,391,913	2,234,941	156,972	0	0	0
Parks and Recreation, Department of	3,297,352	0	3,297,352	0	0	0
Pesticide Regulation, Department of	21,928,190	14,540,898	7,387,292	0	0	0
Public Health, Department of	9,028,453	1,197,323	7,831,130	0	0	0
Public Utilities Commission, Executive Division	49,500,765	0	49,500,765	0	0	0
Resources Recycling and Recovery, Department of	258,397	0	258,397	0	0	0
San Diego River Conservancy	1,016,645	0	1,016,645	0	0	0
State Coastal Conservancy	850,449	0	850,449	0	0	0
State Water Resources Control Board	10,772,717	2,189,056	8,583,661	0	0	0
Toxic Substances Control, Department of	249,832	249,832	0	0	0	0
Transportation, Department of	53,871,866	14,537,333	39,334,533	0	0	0
Water Resources, Department of	11,707,438	100,000	11,607,438	0	0	0
Colorado	42,146,785	11,310,318	30,836,467	0	0	0
Agriculture, Department of	301,916	301,916	0	0	0	0
Economic Development and International Trade, Office of	21,935,844	0	21,935,844	0	0	0
Higher Education Competitive Research Authority	2,622,484	0	2,622,484	0	0	0
Natural Resources, Department of	7,222,995	7,128,671	94,324	0	0	0
Public Health and Environment, Department of	4,829,862	3,004,731	1,825,131	0	0	0
Transportation, Department of	4,849,531	875,000	3,974,531	0	0	0
Wine Industry Development Board	384,153	0	384,153	0	0	0
Connecticut	59,935,851	29,493,426	30,442,425	0	0	0
Agricultural Experiment Station	15,285,122	15,285,122	0	0	0	0
Energy and Environmental Protection, Department of	7,420,806	6,475,645	945,161	0	0	0
Innovation Inc.	26,085,650	0	26,085,650	0	0	0
Mental Health and Addiction Services, Department of	6,795,201	6,795,201	0	0	0	0
Social Services, Department of	691,588	416,588	275,000	0	0	0
Transportation, Department of	3,657,484	520,870	3,136,614	0	0	0
Delaware	3,706,676	1,676,651	2,030,025	0	0	0
Geological Survey	1,756,651	1,676,651	80,000	0	0	0
Natural Resources and Environmental Control, Department of	536,113	0	536,113	0	0	0
Transportation, Department of	1,413,912	0	1,413,912	0	0	0
District of Columbia	8,243,133	5,288,002	2,955,131	0	0	0
Energy and Environment, Department of	350,270	0	350,270	0	0	0
Health, Department of	5,492,578	4,183,769	1,308,809	0	0	0
Transportation, Department of	900,285	104,233	796,052	0	0	0
Water and Sewer Authority	1,500,000	1,000,000	500,000	0	0	0
Florida	326,433,033	64,369,217	262,063,816	2,086,963	1,320,817	766,146
Agriculture and Consumer Services, Department of	54,507,248	1,266,241	53,241,007	0	0	0
Citrus, Department of	3,049,833	102,243	2,947,590	766,146	0	766,146
Fish and Wildlife Conservation Commission	72,378,754	61,449,273	10,929,481	1,320,817	1,320,817	0
Health, Department of	181,724,073	0	181,724,073	0	0	0
Space Florida	1,235,000	0	1,235,000	0	0	0
Transportation, Department of	13,538,125	1,551,460	11,986,665	0	0	0
Georgia	28,195,324	2,783,700	25,411,624	0	0	0
Commodity Commission, Agriculture, Department of	2,864,387	0	2,864,387	0	0	0
Natural Resources, Department of	2,390,690	86,874	2,303,816	0	0	0
Southern States Energy Board	13,864,817	2,696,826	11,167,991	0	0	0
Transportation, Department of	9,075,430	0	9,075,430	0	0	0
Hawaii	6,358,304	399,469	5,958,835	2,226,109	2,226,109	0
Agriculture, Department of	748,473	147,469	601,004	0	0	0

Table 17. State agency expenditures for R&D and R&D plant, by state department or agency and R&D performer: FY 2024

(Dollars)

State and department or agency	R&D performers ^a			R&D plant ^b		
	All	Intramural	Extramural	All	Intramural	Extramural
Business, Economic Development, and Tourism, Department of	1,752,000	252,000	1,500,000	2,226,109	2,226,109	0
Land and Natural Resources, Department of	920,203	0	920,203	0	0	0
Transportation, Department of	2,937,628	0	2,937,628	0	0	0
Idaho	14,897,781	4,780,811	10,116,970	0	0	0
Agriculture, Department of	844,061	0	844,061	0	0	0
Barley Commission	293,740	0	293,740	0	0	0
Bean Commission	36,218	0	36,218	0	0	0
Dairy West	3,090,000	0	3,090,000	0	0	0
Fish and Game, Department of	6,062,574	4,540,179	1,522,395	0	0	0
Mint Commission	85,171	22,176	62,995	0	0	0
Oilseed Commission	68,064	0	68,064	0	0	0
Pea and Lentil Commission	68,766	0	68,766	0	0	0
Potato Commission	695,006	0	695,006	0	0	0
Transportation Department	2,633,825	218,456	2,415,369	0	0	0
Wheat Commission	1,020,356	0	1,020,356	0	0	0
Illinois	17,571,750	368,541	17,203,209	0	0	0
Children and Family Services, Department of	2,749,246	0	2,749,246	0	0	0
Nature Preserves Commission	500,000	0	500,000	0	0	0
Nutrient Research and Education Council	4,123,526	0	4,123,526	0	0	0
Public Health, Department of	454,000	0	454,000	0	0	0
Transportation, Department of	9,744,978	368,541	9,376,437	0	0	0
Indiana	32,777,869	1,001,961	31,775,908	0	0	0
Economic Development Corporation	7,300,000	0	7,300,000	0	0	0
Natural Resources, Department of	3,215,311	815,953	2,399,358	0	0	0
Transportation, Department of	22,262,558	186,008	22,076,550	0	0	0
Iowa	14,471,132	3,146,055	11,325,077	0	0	0
Beef Council	438,439	0	438,439	0	0	0
Management, Department of Data; Division of Planning and Improvement	375,000	375,000	0	0	0	0
Midwest Dairy Association, Iowa Division	53,748	0	53,748	0	0	0
Natural Resources, Department of	4,471,907	2,771,055	1,700,852	0	0	0
Transportation, Department of	9,132,038	0	9,132,038	0	0	0
Kansas	12,652,250	2,583,385	10,068,865	0	0	0
Corn Commission	365,705	0	365,705	0	0	0
Grain Sorghum Commission	1,245,590	0	1,245,590	0	0	0
Soybean Commission	1,091,882	0	1,091,882	0	0	0
State Board of Regents	1,000,950	7,685	993,265	0	0	0
Sunflower Commission	12,862	0	12,862	0	0	0
Transportation, Department of	3,630,258	1,192,892	2,437,366	0	0	0
Water Office	1,769,184	728,610	1,040,574	0	0	0
Wheat Commission	1,355,158	0	1,355,158	0	0	0
Wildlife and Parks, Department of	2,180,661	654,198	1,526,463	0	0	0
Kentucky	31,186,521	5,621,733	25,564,788	0	0	0
Economic Development, Cabinet for	3,577,283	0	3,577,283	0	0	0
Fish and Wildlife Resources, Department of	8,872,995	5,621,733	3,251,262	0	0	0
Nature Preserves, Office of Kentucky	20,767	0	20,767	0	0	0
Public Health, Department for	8,293,825	0	8,293,825	0	0	0
Soybean Promotion Board	430,219	0	430,219	0	0	0
Transportation Cabinet	9,991,432	0	9,991,432	0	0	0
Louisiana	45,656,537	21,806,594	23,849,943	0	0	0
Board of Regents	11,486,002	0	11,486,002	0	0	0

Table 17. State agency expenditures for R&D and R&D plant, by state department or agency and R&D performer: FY 2024

(Dollars)

State and department or agency	R&D performers ^a			R&D plant ^b		
	All	Intramural	Extramural	All	Intramural	Extramural
Coastal Protection and Restoration Authority	3,981,014	550,908	3,430,106	0	0	0
Transportation and Development, Department of	8,255,854	3,529,911	4,725,943	0	0	0
Wildlife and Fisheries, Department of	21,933,667	17,725,775	4,207,892	0	0	0
Maine	41,400,506	14,933,998	26,466,508	259,106	259,106	0
Agriculture, Conservation and Forestry, Department of	1,766,203	1,582,469	183,734	0	0	0
Aquaculture Innovation Center	511,217	511,217	0	0	0	0
Inland Fisheries and Wildlife, Department of	2,000,000	1,868,243	131,757	0	0	0
Marine Resources, Department of	1,170,818	889,657	281,161	0	0	0
MDI Biological Laboratory, Center for Biomedical Innovation	11,668,074	9,651,767	2,016,307	259,106	259,106	0
Technology Institute	22,429,936	0	22,429,936	0	0	0
Transportation, Department of	1,854,258	430,645	1,423,613	0	0	0
Maryland	41,003,629	831,311	40,172,318	0	0	0
Energy Administration	1,000,000	0	1,000,000	0	0	0
Environment, Department of	70,000	0	70,000	0	0	0
Health, Department of	15,000,000	0	15,000,000	0	0	0
Natural Resources, Department of	87,000	0	87,000	0	0	0
Technology Development Corporation	22,278,524	0	22,278,524	0	0	0
Transportation, Department of	2,568,105	831,311	1,736,794	0	0	0
Massachusetts	58,755,361	1,649,549	57,105,812	7,691,873	100,000	7,591,873
Clean Energy Technology Center	33,961,301	0	33,961,301	0	0	0
Environmental Protection, Department of	2,125,890	333,963	1,791,927	100,000	100,000	0
Fish and Game, Department of	280,312	157,441	122,871	0	0	0
Gaming Commission	1,359,461	248,637	1,110,824	0	0	0
MassVentures	195,000	0	195,000	0	0	0
Mental Health, Department of	2,971,914	0	2,971,914	0	0	0
Public Health, Department of	2,346,693	0	2,346,693	0	0	0
Technology Park Corporation	6,687,580	0	6,687,580	7,591,873	0	7,591,873
Transportation, Department of	8,177,210	609,508	7,567,702	0	0	0
Water Resources Authority	650,000	300,000	350,000	0	0	0
Michigan	16,827,281	190,798	16,636,483	0	0	0
Agriculture and Rural Development, Department of	3,785,298	35,000	3,750,298	0	0	0
Economic Development Corporation	4,500,000	0	4,500,000	0	0	0
Environmental, Great Lakes, and Energy, Department of	1,374,488	155,798	1,218,690	0	0	0
Health and Human Services, Department of	852,096	0	852,096	0	0	0
Transportation, Department of	6,315,399	0	6,315,399	0	0	0
Minnesota	28,917,361	3,926,669	24,990,692	0	0	0
Agriculture, Department of	7,141,691	1,189,010	5,952,681	0	0	0
Employment and Economic Development, Department of	100,000	100,000	0	0	0	0
Forest Resources Council	167,362	23,780	143,582	0	0	0
Labor and Industry, Department of	933,353	808,354	124,999	0	0	0
Midwest Dairy Association, Minnesota Division	292,250	0	292,250	0	0	0
Natural Resources, Department of	1,828,394	1,785,025	43,369	0	0	0
Pollution Control Agency	40,889	0	40,889	0	0	0
Transportation, Department of	18,413,422	20,500	18,392,922	0	0	0
Mississippi	12,365,286	3,023,466	9,341,820	0	0	0
Agriculture and Commerce, Department of	270,332	0	270,332	0	0	0
Environmental Quality, Department of	902,684	0	902,684	0	0	0
Gulf States Marine Fisheries Commission	1,430,001	58,626	1,371,375	0	0	0
Marine Resources, Department of	4,833,162	2,351,341	2,481,821	0	0	0
Transportation, Department of	3,205,084	5,136	3,199,948	0	0	0
Wildlife, Fisheries, and Parks, Department of	1,724,023	608,363	1,115,660	0	0	0

Table 17. State agency expenditures for R&D and R&D plant, by state department or agency and R&D performer: FY 2024

(Dollars)

State and department or agency	R&D performers ^a			R&D plant ^b		
	All	Intramural	Extramural	All	Intramural	Extramural
Missouri	17,580,231	4,344,942	13,235,289	0	0	0
Agriculture, Department of	984,588	0	984,588	0	0	0
Conservation, Department of	6,743,448	3,501,656	3,241,792	0	0	0
Mental Health, Department of	485,000	0	485,000	0	0	0
Midwest Dairy Association, Missouri Division	50,877	0	50,877	0	0	0
Natural Resources, Department of	849,546	0	849,546	0	0	0
Technology Corporation	3,538,639	0	3,538,639	0	0	0
Transportation, Department of	4,028,969	0	4,028,969	0	0	0
Wine and Grape Board	899,164	843,286	55,878	0	0	0
Montana	14,667,731	4,810,365	9,857,366	0	0	0
Agriculture, Department of	5,587,028	0	5,587,028	0	0	0
Environmental Quality, Department of	206,364	206,364	0	0	0	0
Fish, Wildlife and Parks, Department of	6,887,404	4,147,421	2,739,983	0	0	0
Natural Resources and Conservation, Department of	8,670	0	8,670	0	0	0
Transportation, Department of	1,978,265	456,580	1,521,685	0	0	0
Nebraska	31,562,589	802,690	30,759,899	0	0	0
Agriculture, Department of	949,078	0	949,078	0	0	0
Corn Board	786,777	0	786,777	0	0	0
Dry Bean Commission	154,550	0	154,550	0	0	0
Economic Development, Department of	4,867,332	0	4,867,332	0	0	0
Game and Parks Commission	3,146,687	716,073	2,430,614	0	0	0
Grain Sorghum Board	3,000	0	3,000	0	0	0
Health and Human Services, Department of	18,981,074	0	18,981,074	0	0	0
Natural Resources, Department of	50,000	0	50,000	0	0	0
Pea And Lentil Commission	34,292	0	34,292	0	0	0
Transportation, Department of	1,745,533	86,617	1,658,916	0	0	0
Wheat Board	844,266	0	844,266	0	0	0
Nevada	6,811,110	642,255	6,168,855	100,000	0	100,000
Agriculture, Department of	203,079	203,079	0	0	0	0
Conservation and Natural Resources, Department of	2,916,818	439,176	2,477,642	100,000	0	100,000
Economic Development, Governor's office of	2,164,225	0	2,164,225	0	0	0
Transportation, Department of	1,526,988	0	1,526,988	0	0	0
New Hampshire	1,257,547	88,795	1,168,752	0	0	0
Agriculture, Markets and Food, Department of	156,922	0	156,922	0	0	0
Transportation, Department of	1,100,625	88,795	1,011,830	0	0	0
New Jersey	114,110,735	4,104,226	110,006,509	0	0	0
Children and Families, Department of	1,377,857	179,345	1,198,512	0	0	0
Corrections, Department of	544,202	544,202	0	0	0	0
Environmental Protection, Department of	8,270,381	2,452,922	5,817,459	0	0	0
Health, Department of	90,391,750	0	90,391,750	0	0	0
Pinelands Commission	782,819	781,071	1,748	0	0	0
Secretary of Higher Education, Office of	7,500,000	0	7,500,000	0	0	0
State Parole Board	146,686	146,686	0	0	0	0
Transportation, Department of	5,097,040	0	5,097,040	0	0	0
New Mexico	3,543,922	1,296,000	2,247,922	0	0	0
Game and Fish, Department of	1,129,000	296,000	833,000	0	0	0
Transportation, Department of	2,342,423	1,000,000	1,342,423	0	0	0
Western State Air Resources Council	72,499	0	72,499	0	0	0
New York	472,861,004	304,438,429	168,422,575	911,102	911,102	0
Agriculture and Markets, Department of	12,594,295	2,395,000	10,199,295	0	0	0
Economic Development, Department of	61,938,660	0	61,938,660	0	0	0
Energy Research and Development Authority	57,430,498	9,342,472	48,088,026	0	0	0

Table 17. State agency expenditures for R&D and R&D plant, by state department or agency and R&D performer: FY 2024

(Dollars)

State and department or agency	R&D performers ^a			R&D plant ^b		
	All	Intramural	Extramural	All	Intramural	Extramural
Environmental Conservation, Department of	12,057,644	3,740,360	8,317,284	0	0	0
Health, Department of	42,057,299	28,078,903	13,978,396	0	0	0
Mental Health, Office of	169,554,913	152,569,872	16,985,041	911,102	911,102	0
People with Developmental Disabilities, Office of	2,593,058	2,593,058	0	0	0	0
Power Authority	10,882,017	3,806,379	7,075,638	0	0	0
Roswell Park Comprehensive Cancer Center	87,787,967	87,787,967	0	0	0	0
State Museum	11,605,969	11,094,406	511,563	0	0	0
Thoroughbred Breeding and Development Fund Corporation	421,894	0	421,894	0	0	0
Transportation, Department of	3,936,790	3,030,012	906,778	0	0	0
North Carolina	39,656,480	17,211,359	22,445,121	1,000,000	1,000,000	0
Agriculture and Consumer Services, Department of	14,714,600	13,214,600	1,500,000	1,000,000	1,000,000	0
Biotechnology Center	8,020,782	0	8,020,782	0	0	0
Environmental Quality, Department of	1,172,150	1,172,150	0	0	0	0
Natural and Cultural Resources, Department of	2,585,696	2,068,112	517,584	0	0	0
Science, Technology & Innovation, Office of	2,011,840	0	2,011,840	0	0	0
Transportation, Department of	11,019,812	756,497	10,263,315	0	0	0
Wine and Grape Growers Council	131,600	0	131,600	0	0	0
North Dakota	39,052,516	1,437,702	37,614,814	0	0	0
Agriculture, Department of	1,276,724	0	1,276,724	0	0	0
Dry Pea and Lentil Commission	332,940	0	332,940	0	0	0
Game and Fish, Department of	1,197,474	250,000	947,474	0	0	0
Historical Society of North Dakota	1,326,254	1,135,584	190,670	0	0	0
Industrial Commission	30,205,490	0	30,205,490	0	0	0
Soybean Council	1,944,108	0	1,944,108	0	0	0
Transportation, Department of	1,539,234	52,118	1,487,116	0	0	0
Wheat Commission	1,230,292	0	1,230,292	0	0	0
Ohio	73,535,535	3,342,419	70,193,116	0	0	0
Development, Department of	48,789,758	0	48,789,758	0	0	0
Education and Workforce, Department of	305,000	35,000	270,000	0	0	0
Mental Health and Addictions Services, Department of	13,345,000	2,345,000	11,000,000	0	0	0
Natural Resources, Department of	4,044,548	962,419	3,082,129	0	0	0
Transportation, Department of	6,007,875	0	6,007,875	0	0	0
Water Development Authority	1,043,354	0	1,043,354	0	0	0
Oklahoma	31,173,972	1,157,820	30,016,152	0	0	0
Advancement of Science and Technology, Center for the	7,911,543	0	7,911,543	0	0	0
Agriculture, Food, and Forestry, Department of	804,700	0	804,700	0	0	0
Grand River Dam Authority	410,000	250,000	160,000	0	0	0
Health, Department of	1,275,333	394,051	881,282	0	0	0
Tobacco Settlement Endowment Trust	13,430,000	0	13,430,000	0	0	0
Transportation, Department of	4,725,224	492,768	4,232,456	0	0	0
Wildlife Conservation, Department of	2,617,172	21,001	2,596,171	0	0	0
Oregon	34,898,696	14,534,155	20,364,541	0	0	0
Agriculture, Department of	307,403	0	307,403	0	0	0
Business Development Department	12,685,262	0	12,685,262	0	0	0
Education, Department of	107,000	107,000	0	0	0	0
Fish and Wildlife, Department of	15,842,487	12,536,982	3,305,505	0	0	0
Forestry, Department of	700,000	350,000	350,000	0	0	0
Geology and Mineral Industries, Department of	906,807	906,807	0	0	0	0
Transportation, Department of	2,677,532	237,892	2,439,640	0	0	0
Water Resources Department	710,934	384,093	326,841	0	0	0
Watershed Enhancement Board	961,271	11,381	949,890	0	0	0

Table 17. State agency expenditures for R&D and R&D plant, by state department or agency and R&D performer: FY 2024

(Dollars)

State and department or agency	R&D performers ^a			R&D plant ^b		
	All	Intramural	Extramural	All	Intramural	Extramural
Pennsylvania	95,489,670	15,446,289	80,043,381	0	0	0
Agriculture, Department of	2,837,000	0	2,837,000	0	0	0
Community and Economic Development, Department of	25,525,000	0	25,525,000	0	0	0
Conservation and Natural Resources, Department of	691,862	120,000	571,862	0	0	0
Environmental Protection, Department of	580,570	41,473	539,097	0	0	0
Fish and Boat Commission	133,434	89,822	43,612	0	0	0
Game Commission	15,488,147	15,018,344	469,803	0	0	0
Health, Department of	48,286,175	0	48,286,175	0	0	0
Susquehanna River Basin Commission	197,000	176,650	20,350	0	0	0
Transportation, Department of	1,750,482	0	1,750,482	0	0	0
Rhode Island	2,668,740	342,028	2,326,712	0	0	0
Commerce Corporation	886,473	0	886,473	0	0	0
Fish and Wildlife; Environmental Management, Department of	297,891	0	297,891	0	0	0
Marine Fisheries; Environmental Management, Department of	68,881	0	68,881	0	0	0
Narragansett Bay National Estuarine Research Reserve; Environmental Management, Department of	272,028	272,028	0	0	0	0
Transportation, Department of	1,050,000	70,000	980,000	0	0	0
Water Resources Board	93,467	0	93,467	0	0	0
South Carolina	60,272,615	37,802,089	22,470,526	0	0	0
Agriculture, Department of	1,371,340	0	1,371,340	0	0	0
Disabilities and Special Needs, Department of	14,169,753	0	14,169,753	0	0	0
Health and Environmental Control, Department of	1,578,338	1,578,338	0	0	0	0
Natural Resources, Department of	33,406,763	32,991,106	415,657	0	0	0
Public Service Authority	524,025	0	524,025	0	0	0
Research Authority	2,281,886	0	2,281,886	0	0	0
Sea Grant Consortium	5,249,736	2,922,829	2,326,907	0	0	0
Transportation, Department of	1,690,774	309,816	1,380,958	0	0	0
South Dakota	5,069,428	319,204	4,750,224	950,000	0	950,000
Corn Utilization Council	72,097	0	72,097	0	0	0
Midwest Dairy Association, South Dakota Division	159,219	0	159,219	0	0	0
Nutrient Research and Education Council	1,110,090	0	1,110,090	0	0	0
Oilseeds Council	130,003	0	130,003	0	0	0
Pulse Crop Council	34,292	0	34,292	0	0	0
Soybean Research and Promotion Council	833,323	17,314	816,009	950,000	0	950,000
Transportation, Department of	2,046,079	301,890	1,744,189	0	0	0
Weed and Pest Control Commission	47,000	0	47,000	0	0	0
Wheat Commission	637,325	0	637,325	0	0	0
Tennessee	88,292,627	0	88,292,627	5,562,000	0	5,562,000
Economic and Community Development, Department of	31,582,387	0	31,582,387	5,562,000	0	5,562,000
Education, Department of	49,478,612	0	49,478,612	0	0	0
Environment and Conservation, Department of	765,089	0	765,089	0	0	0
LaunchTN	4,500,000	0	4,500,000	0	0	0
Transportation, Department of	1,966,539	0	1,966,539	0	0	0
Texas	263,798,186	1,529,174	262,269,012	0	0	0
Agriculture, Department of	741,393	0	741,393	0	0	0
Animal Health Commission	16,968	16,968	0	0	0	0
Cancer Prevention and Research Institute	231,042,658	0	231,042,658	0	0	0
Environmental Quality, Commission on	2,625,587	69,773	2,555,814	0	0	0
Parks and Wildlife Department	5,793,793	1,442,433	4,351,360	0	0	0
Transportation, Department of	22,375,505	0	22,375,505	0	0	0

Table 17. State agency expenditures for R&D and R&D plant, by state department or agency and R&D performer: FY 2024

(Dollars)

State and department or agency	R&D performers ^a			R&D plant ^b		
	All	Intramural	Extramural	All	Intramural	Extramural
Water Development Board	1,202,282	0	1,202,282	0	0	0
Utah	11,350,593	8,312,136	3,038,457	0	0	0
Environmental Quality, Department of	1,956,435	537,957	1,418,478	0	0	0
Natural Resources, Department of	6,467,965	6,467,965	0	0	0	0
Transportation, Department of	2,926,193	1,306,214	1,619,979	0	0	0
Vermont	1,724,837	1,298,300	426,537	0	0	0
Agriculture, Food, and Markets, Agency of	9,419	0	9,419	0	0	0
Human Services, Agency of	798,646	798,646	0	0	0	0
Natural Resources, Agency of	26,031	0	26,031	0	0	0
Transportation, Agency of	890,741	499,654	391,087	0	0	0
Virginia	57,082,897	19,597,013	37,485,884	2,181,908	403,408	1,778,500
Agriculture and Consumer Services, Department of	3,728,575	0	3,728,575	0	0	0
Commonwealth Health Research Board	1,608,870	0	1,608,870	0	0	0
Education, Department of	1,000,000	750,000	250,000	0	0	0
Energy, Department of	1,664,444	1,592,500	71,944	0	0	0
Environmental Quality, Department of	449,060	153,998	295,062	0	0	0
Forensic Science, Department of	1,163,967	1,163,967	0	403,408	403,408	0
Forestry, Department of	823,618	823,618	0	0	0	0
Foundation for Healthy Youth	1,192,122	0	1,192,122	0	0	0
Innovation Partnership Authority	16,517,486	2,265,938	14,251,548	1,778,500	0	1,778,500
Marine Resources Commission	1,941,990	279,880	1,662,110	0	0	0
Natural History, Museum of	1,112,900	1,112,900	0	0	0	0
Rail and Public Transportation	525,000	125,000	400,000	0	0	0
Social Services, Department of	1,123,500	1,123,500	0	0	0	0
Transportation, Department of	20,297,649	9,660,310	10,637,339	0	0	0
Veterans Services, Department of	1,562,314	0	1,562,314	0	0	0
Wildlife Resources, Department of	2,371,402	545,402	1,826,000	0	0	0
Washington	77,892,601	42,774,429	35,118,172	579,005	0	579,005
Agriculture, Department of	3,545,097	0	3,545,097	0	0	0
Alfalfa Seed Commission	17,000	0	17,000	0	0	0
Asparagus Commission	33,000	0	33,000	0	0	0
Blueberry Commission	231,487	0	231,487	0	0	0
Commerce, Department of	7,989,275	0	7,989,275	562,191	0	562,191
Cranberry Commission	11,000	0	11,000	0	0	0
Ecology, Department of	2,724,112	1,810,625	913,487	0	0	0
Fish and Wildlife, Department of	22,265,674	21,880,775	384,899	0	0	0
Fruit Commission	60,000	0	60,000	0	0	0
Grain Commission	2,135,826	0	2,135,826	0	0	0
Health, Department of	1,485,000	1,411,000	74,000	0	0	0
Hop Commission	164,546	0	164,546	16,814	0	16,814
Integrated Pest Management, Commission on	432,913	0	432,913	0	0	0
Labor and Industries, Department of	3,918,652	3,918,652	0	0	0	0
Mint Commission	40,529	0	40,529	0	0	0
Natural Resources, Department of	16,368,691	11,714,701	4,653,990	0	0	0
Oilseeds Commission	118,784	0	118,784	0	0	0
Potato Commission	879,508	0	879,508	0	0	0
Puget Sound Partnership	3,715,000	115,000	3,600,000	0	0	0
Pulse Crops Commission	142,290	0	142,290	0	0	0
Red Raspberry Commission	209,188	0	209,188	0	0	0
Transportation, Department of	5,472,000	1,535,000	3,937,000	0	0	0
Tree Fruit Research Commission	5,482,677	388,676	5,094,001	0	0	0
Turfgrass Seed Commission	118,269	0	118,269	0	0	0

Table 17. State agency expenditures for R&D and R&D plant, by state department or agency and R&D performer: FY 2024

(Dollars)

State and department or agency	R&D performers ^a			R&D plant ^b		
	All	Intramural	Extramural	All	Intramural	Extramural
Wine Commission	332,083	0	332,083	0	0	0
West Virginia	11,946,339	4,775,295	7,171,044	0	0	0
Agriculture, Department of	160,000	160,000	0	0	0	0
Geological and Economic Survey	3,192,295	2,843,833	348,462	0	0	0
Higher Education Policy Commission	4,412,628	29,186	4,383,442	0	0	0
Justice and Community Services, Division of Administrative Services	416,939	416,939	0	0	0	0
Natural Resources, Division of	1,563,193	1,051,541	511,652	0	0	0
Transportation, Department of	2,201,284	273,796	1,927,488	0	0	0
Wisconsin	15,612,828	5,361,683	10,251,145	0	0	0
Agriculture, Trade and Consumer Protection, Department of	2,599,764	0	2,599,764	0	0	0
Economic Development Corporation	1,500,000	0	1,500,000	0	0	0
Natural Resources, Department of	7,355,100	4,990,353	2,364,747	0	0	0
Transportation, Department of	4,157,964	371,330	3,786,634	0	0	0
Wyoming	13,781,859	4,232,861	9,548,998	0	0	0
Agriculture, Department of	657,131	0	657,131	0	0	0
Business Council	1,044,968	0	1,044,968	0	0	0
Enhanced Oil Recovery Institute	6,445,631	550,834	5,894,797	0	0	0
Game and Fish Department	1,323,535	626,122	697,413	0	0	0
State Geological Survey	2,946,055	2,946,055	0	0	0	0
Transportation, Department of	967,025	109,850	857,175	0	0	0
Water Development Office	397,514	0	397,514	0	0	0
Puerto Rico ^d	48,065,120	34,169,608	13,895,512	746,158	698,801	47,357
Agriculture, Department of	141,550	0	141,550	0	0	0
Economic Development and Commerce, Department of	5,000,000	0	5,000,000	0	0	0
Comprehensive Cancer Center	21,142,003	13,377,000	7,765,003	746,158	698,801	47,357
Health, Department of	15,788,813	15,788,813	0	0	0	0
Institute of Statistics	2,113,301	2,113,301	0	0	0	0
Science, Technology and Research Trust	3,879,453	2,890,494	988,959	0	0	0

^a Intramural performers includes a department's or agency's own employees who perform R&D and services performed by others in support of an internal R&D project. Extramural performers are those outside the department or agency who perform R&D.

^b R&D plant expenditures includes acquisition of land, facilities, major equipment, and major building renovations intended primarily for R&D use.

^c U.S. total reflects all 50 states and the District of Columbia.

^d Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 18. State agency expenditures for R&D for all performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Source of funds	
		Federal government	State and all others ^a
United States ^b	3,344,696,717	726,727,808	2,617,968,909
Alabama	65,159,736	14,276,152	50,883,584
Commerce, Department of	38,319,907	0	38,319,907
Conservation and Natural Resources, Department of; Wildlife and Freshwater Fisheries Division	2,735,751	1,943,562	792,189
Economic and Community Affairs, Department of	3,010,094	0	3,010,094
Education, Department of	3,899,855	3,455,433	444,422
Forensic Sciences, Department of	240,688	0	240,688
Geological Survey	3,631,424	1,523,422	2,108,002
Marine Environmental Science Consortium, Dauphin Island Sea Lab	3,261,291	2,354,229	907,062
Supercomputer Authority	4,500,525	0	4,500,525
Transportation, Department of	5,560,201	4,999,506	560,695
Alaska	18,477,002	10,267,681	8,209,321
Energy Authority	82,223	0	82,223
Environmental Conservation, Department of	122,970	64,486	58,484
Housing Finance Corporation	500,000	0	500,000
Natural Resources, Department of; Division of Geological and Geophysical Surveys	10,732,738	4,073,074	6,659,664
Railroad Corporation	3,007,378	2,794,308	213,070
Seafood Marketing Institute	178,293	178,293	0
Transportation and Public Facilities, Department of	3,853,400	3,157,520	695,880
Arizona	17,162,845	4,491,477	12,671,368
Agriculture, Department of	1,847,686	1,709,154	138,532
Game and Fish Department	1,989,306	1,644,629	344,677
Health Services, Department of	11,719,582	0	11,719,582
Juvenile Corrections, Department of	216,653	0	216,653
Transportation, Department of	1,389,618	1,137,694	251,924
Arkansas	13,727,825	4,305,361	9,422,464
Corn and Grain Sorghum Promotion Board	1,021,996	0	1,021,996
Economic Development Commission	2,998,121	1,905,468	1,092,653
Game and Fish Commission	3,142,997	2,240,978	902,019
Natural Heritage Commission	38,926	0	38,926
Rice Research and Promotion Board	2,927,141	0	2,927,141
Soybean Promotion Board	3,400,000	0	3,400,000
Transportation, Department of	198,644	158,915	39,729
California	800,971,651	22,058,608	778,913,043
Air Resources Board	19,974,359	0	19,974,359
Conservation, Department of	3,136,065	786,474	2,349,591
Corrections and Rehabilitation, Department of	2,226,717	0	2,226,717
Covered California	10,906,729	0	10,906,729
Dairy Council	100,000	0	100,000
Delta Stewardship Council	4,842,068	1,052,397	3,789,671
Earthquake Authority	75,000	0	75,000
Emergency Services Governor's Office	1,708,673	0	1,708,673
Energy Commission	246,371,838	0	246,371,838
Environmental Health Hazard Assessment, Office of	21,350,349	0	21,350,349
First 5 California	6,000,000	0	6,000,000
Food and Agriculture, Department of	6,164,999	100,471	6,064,528
Forestry and Fire Protection, Department of	14,178,000	0	14,178,000
Horse Racing Board	1,064,589	0	1,064,589
Housing and Community Development, Department of	500,350	0	500,350

Table 18. State agency expenditures for R&D for all performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Source of funds	
		Federal government	State and all others ^a
Institute for Regenerative Medicine	297,497,898	0	297,497,898
Motor Vehicles, Department of	2,391,913	0	2,391,913
Parks and Recreation, Department of	3,297,352	0	3,297,352
Pesticide Regulation, Department of	21,928,190	100,000	21,828,190
Public Health, Department of	9,028,453	0	9,028,453
Public Utilities Commission, Executive Division	49,500,765	0	49,500,765
Resources Recycling and Recovery, Department of	258,397	0	258,397
San Diego River Conservancy	1,016,645	0	1,016,645
State Coastal Conservancy	850,449	5,511	844,938
State Water Resources Control Board	10,772,717	157,963	10,614,754
Toxic Substances Control, Department of	249,832	0	249,832
Transportation, Department of	53,871,866	19,855,792	34,016,074
Water Resources, Department of	11,707,438	0	11,707,438
Colorado	42,146,785	6,746,764	35,400,021
Agriculture, Department of	301,916	301,916	0
Economic Development and International Trade, Office of	21,935,844	0	21,935,844
Higher Education Competitive Research Authority	2,622,484	0	2,622,484
Natural Resources, Department of	7,222,995	1,517,828	5,705,167
Public Health and Environment, Department of	4,829,862	77,489	4,752,373
Transportation, Department of	4,849,531	4,849,531	0
Wine Industry Development Board	384,153	0	384,153
Connecticut	59,935,851	27,568,730	32,367,121
Agricultural Experiment Station	15,285,122	6,587,278	8,697,844
Energy and Environmental Protection, Department of	7,420,806	6,638,378	782,428
Innovation Inc.	26,085,650	10,316,219	15,769,431
Mental Health and Addiction Services, Department of	6,795,201	660,398	6,134,803
Social Services, Department of	691,588	0	691,588
Transportation, Department of	3,657,484	3,366,457	291,027
Delaware	3,706,676	1,897,241	1,809,435
Geological Survey	1,756,651	426,834	1,329,817
Natural Resources and Environmental Control, Department of	536,113	372,902	163,211
Transportation, Department of	1,413,912	1,097,505	316,407
District of Columbia	8,243,133	6,289,673	1,953,460
Energy and Environment, Department of	350,270	76,867	273,403
Health, Department of	5,492,578	5,492,578	0
Transportation, Department of	900,285	720,228	180,057
Water and Sewer Authority	1,500,000	0	1,500,000
Florida	326,433,033	27,258,970	299,174,063
Agriculture and Consumer Services, Department of	54,507,248	3,329,270	51,177,978
Citrus, Department of	3,049,833	0	3,049,833
Fish and Wildlife Conservation Commission	72,378,754	18,979,287	53,399,467
Health, Department of	181,724,073	0	181,724,073
Space Florida	1,235,000	0	1,235,000
Transportation, Department of	13,538,125	4,950,413	8,587,712
Georgia	28,195,324	22,866,593	5,328,731
Commodity Commission, Agriculture, Department of	2,864,387	0	2,864,387
Natural Resources, Department of	2,390,690	1,764,852	625,838
Southern States Energy Board	13,864,817	13,213,649	651,168
Transportation, Department of	9,075,430	7,888,092	1,187,338
Hawaii	6,358,304	2,839,012	3,519,292
Agriculture, Department of	748,473	345,973	402,500

Table 18. State agency expenditures for R&D for all performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Source of funds	
		Federal government	State and all others ^a
Business, Economic Development, and Tourism, Department of	1,752,000	252,000	1,500,000
Land and Natural Resources, Department of	920,203	30,731	889,472
Transportation, Department of	2,937,628	2,210,308	727,320
Idaho	14,897,781	7,184,984	7,712,797
Agriculture, Department of	844,061	844,061	0
Barley Commission	293,740	0	293,740
Bean Commission	36,218	0	36,218
Dairy West	3,090,000	0	3,090,000
Fish and Game, Department of	6,062,574	3,991,076	2,071,498
Mint Commission	85,171	0	85,171
Oilseed Commission	68,064	0	68,064
Pea and Lentil Commission	68,766	0	68,766
Potato Commission	695,006	0	695,006
Transportation Department	2,633,825	2,349,847	283,978
Wheat Commission	1,020,356	0	1,020,356
Illinois	17,571,750	7,426,437	10,145,313
Children and Family Services, Department of	2,749,246	0	2,749,246
Nature Preserves Commission	500,000	0	500,000
Nutrient Research and Education Council	4,123,526	0	4,123,526
Public Health, Department of	454,000	0	454,000
Transportation, Department of	9,744,978	7,426,437	2,318,541
Indiana	32,777,869	20,284,519	12,493,350
Economic Development Corporation	7,300,000	0	7,300,000
Natural Resources, Department of	3,215,311	2,370,069	845,242
Transportation, Department of	22,262,558	17,914,450	4,348,108
Iowa	14,471,132	7,697,318	6,773,814
Beef Council	438,439	0	438,439
Management, Department of Data; Division of Planning and Improvement	375,000	125,000	250,000
Midwest Dairy Association, Iowa Division	53,748	0	53,748
Natural Resources, Department of	4,471,907	2,555,522	1,916,385
Transportation, Department of	9,132,038	5,016,796	4,115,242
Kansas	12,652,250	4,104,543	8,547,707
Corn Commission	365,705	0	365,705
Grain Sorghum Commission	1,245,590	0	1,245,590
Soybean Commission	1,091,882	0	1,091,882
State Board of Regents	1,000,950	0	1,000,950
Sunflower Commission	12,862	0	12,862
Transportation, Department of	3,630,258	2,270,980	1,359,278
Water Office	1,769,184	198,068	1,571,116
Wheat Commission	1,355,158	0	1,355,158
Wildlife and Parks, Department of	2,180,661	1,635,495	545,166
Kentucky	31,186,521	12,003,764	19,182,757
Economic Development, Cabinet for	3,577,283	0	3,577,283
Fish and Wildlife Resources, Department of	8,872,995	6,141,646	2,731,349
Nature Preserves, Office of Kentucky	20,767	20,767	0
Public Health, Department for	8,293,825	0	8,293,825
Soybean Promotion Board	430,219	0	430,219
Transportation Cabinet	9,991,432	5,841,351	4,150,081
Louisiana	45,656,537	29,642,130	16,014,407
Board of Regents	11,486,002	4,749,364	6,736,638
Coastal Protection and Restoration Authority	3,981,014	743,939	3,237,075

Table 18. State agency expenditures for R&D for all performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Source of funds	
		Federal government	State and all others ^a
Transportation and Development, Department of	8,255,854	6,604,684	1,651,170
Wildlife and Fisheries, Department of	21,933,667	17,544,143	4,389,524
Maine	41,400,506	20,973,235	20,427,271
Agriculture, Conservation and Forestry, Department of	1,766,203	511,360	1,254,843
Aquaculture Innovation Center	511,217	409,619	101,598
Inland Fisheries and Wildlife, Department of	2,000,000	1,500,000	500,000
Marine Resources, Department of	1,170,818	1,170,818	0
MDI Biological Laboratory, Center for Biomedical Innovation	11,668,074	4,967,032	6,701,042
Technology Institute	22,429,936	10,754,266	11,675,670
Transportation, Department of	1,854,258	1,660,140	194,118
Maryland	41,003,629	1,715,671	39,287,958
Energy Administration	1,000,000	0	1,000,000
Environment, Department of	70,000	0	70,000
Health, Department of	15,000,000	0	15,000,000
Natural Resources, Department of	87,000	0	87,000
Technology Development Corporation	22,278,524	0	22,278,524
Transportation, Department of	2,568,105	1,715,671	852,434
Massachusetts	58,755,361	15,112,369	43,642,992
Clean Energy Technology Center	33,961,301	6,765,770	27,195,531
Environmental Protection, Department of	2,125,890	26,843	2,099,047
Fish and Game, Department of	280,312	263,735	16,577
Gaming Commission	1,359,461	0	1,359,461
MassVentures	195,000	0	195,000
Mental Health, Department of	2,971,914	361,818	2,610,096
Public Health, Department of	2,346,693	1,152,436	1,194,257
Technology Park Corporation	6,687,580	0	6,687,580
Transportation, Department of	8,177,210	6,541,767	1,635,443
Water Resources Authority	650,000	0	650,000
Michigan	16,827,281	7,824,233	9,003,048
Agriculture and Rural Development, Department of	3,785,298	236,169	3,549,129
Economic Development Corporation	4,500,000	0	4,500,000
Environmental, Great Lakes, and Energy, Department of	1,374,488	1,065,486	309,002
Health and Human Services, Department of	852,096	852,096	0
Transportation, Department of	6,315,399	5,670,482	644,917
Minnesota	28,917,361	11,049,227	17,868,134
Agriculture, Department of	7,141,691	1,307,070	5,834,621
Employment and Economic Development, Department of	100,000	100,000	0
Forest Resources Council	167,362	0	167,362
Labor and Industry, Department of	933,353	138,000	795,353
Midwest Dairy Association, Minnesota Division	292,250	0	292,250
Natural Resources, Department of	1,828,394	1,365,230	463,164
Pollution Control Agency	40,889	0	40,889
Transportation, Department of	18,413,422	8,138,927	10,274,495
Mississippi	12,365,286	10,091,295	2,273,991
Agriculture and Commerce, Department of	270,332	270,332	0
Environmental Quality, Department of	902,684	902,684	0
Gulf States Marine Fisheries Commission	1,430,001	1,430,001	0
Marine Resources, Department of	4,833,162	2,860,876	1,972,286
Transportation, Department of	3,205,084	3,106,505	98,579
Wildlife, Fisheries, and Parks, Department of	1,724,023	1,520,897	203,126
Missouri	17,580,231	5,842,791	11,737,440

Table 18. State agency expenditures for R&D for all performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Source of funds	
		Federal government	State and all others ^a
Agriculture, Department of	984,588	222,199	762,389
Conservation, Department of	6,743,448	1,983,418	4,760,030
Mental Health, Department of	485,000	0	485,000
Midwest Dairy Association, Missouri Division	50,877	0	50,877
Natural Resources, Department of	849,546	0	849,546
Technology Corporation	3,538,639	399,999	3,138,640
Transportation, Department of	4,028,969	3,223,175	805,794
Wine and Grape Board	899,164	14,000	885,164
Montana	14,667,731	10,220,896	4,446,835
Agriculture, Department of	5,587,028	3,035,577	2,551,451
Environmental Quality, Department of	206,364	146,364	60,000
Fish, Wildlife and Parks, Department of	6,887,404	5,256,214	1,631,190
Natural Resources and Conservation, Department of	8,670	8,670	0
Transportation, Department of	1,978,265	1,774,071	204,194
Nebraska	31,562,589	4,858,608	26,703,981
Agriculture, Department of	949,078	781,832	167,246
Corn Board	786,777	0	786,777
Dry Bean Commission	154,550	0	154,550
Economic Development, Department of	4,867,332	0	4,867,332
Game and Parks Commission	3,146,687	2,739,726	406,961
Grain Sorghum Board	3,000	0	3,000
Health and Human Services, Department of	18,981,074	0	18,981,074
Natural Resources, Department of	50,000	0	50,000
Pea And Lentil Commission	34,292	0	34,292
Transportation, Department of	1,745,533	1,337,050	408,483
Wheat Board	844,266	0	844,266
Nevada	6,811,110	3,996,024	2,815,086
Agriculture, Department of	203,079	143,079	60,000
Conservation and Natural Resources, Department of	2,916,818	2,418,703	498,115
Economic Development, Governor's office of	2,164,225	0	2,164,225
Transportation, Department of	1,526,988	1,434,242	92,746
New Hampshire	1,257,547	880,500	377,047
Agriculture, Markets and Food, Department of	156,922	0	156,922
Transportation, Department of	1,100,625	880,500	220,125
New Jersey	114,110,735	7,255,307	106,855,428
Children and Families, Department of	1,377,857	958,277	419,580
Corrections, Department of	544,202	113,985	430,217
Environmental Protection, Department of	8,270,381	1,257,936	7,012,445
Health, Department of	90,391,750	0	90,391,750
Pinelands Commission	782,819	329,711	453,108
Secretary of Higher Education, Office of	7,500,000	0	7,500,000
State Parole Board	146,686	146,686	0
Transportation, Department of	5,097,040	4,448,712	648,328
New Mexico	3,543,922	2,759,937	783,985
Game and Fish, Department of	1,129,000	813,500	315,500
Transportation, Department of	2,342,423	1,873,938	468,485
Western State Air Resources Council	72,499	72,499	0
New York	472,861,004	182,565,089	290,295,915
Agriculture and Markets, Department of	12,594,295	3,081,975	9,512,320
Economic Development, Department of	61,938,660	9,600,000	52,338,660
Energy Research and Development Authority	57,430,498	0	57,430,498

Table 18. State agency expenditures for R&D for all performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Source of funds	
		Federal government	State and all others ^a
Environmental Conservation, Department of	12,057,644	1,919,288	10,138,356
Health, Department of	42,057,299	18,857,684	23,199,615
Mental Health, Office of	169,554,913	83,270,377	86,284,536
People with Developmental Disabilities, Office of	2,593,058	2,331,915	261,143
Power Authority	10,882,017	177,600	10,704,417
Roswell Park Comprehensive Cancer Center	87,787,967	59,654,157	28,133,810
State Museum	11,605,969	522,661	11,083,308
Thoroughbred Breeding and Development Fund Corporation	421,894	0	421,894
Transportation, Department of	3,936,790	3,149,432	787,358
North Carolina	39,656,480	10,675,391	28,981,089
Agriculture and Consumer Services, Department of	14,714,600	0	14,714,600
Biotechnology Center	8,020,782	0	8,020,782
Environmental Quality, Department of	1,172,150	1,153,150	19,000
Natural and Cultural Resources, Department of	2,585,696	216,560	2,369,136
Science, Technology & Innovation, Office of	2,011,840	0	2,011,840
Transportation, Department of	11,019,812	9,305,681	1,714,131
Wine and Grape Growers Council	131,600	0	131,600
North Dakota	39,052,516	3,282,943	35,769,573
Agriculture, Department of	1,276,724	0	1,276,724
Dry Pea and Lentil Commission	332,940	0	332,940
Game and Fish, Department of	1,197,474	1,039,576	157,898
Historical Society of North Dakota	1,326,254	753,427	572,827
Industrial Commission	30,205,490	0	30,205,490
Soybean Council	1,944,108	0	1,944,108
Transportation, Department of	1,539,234	1,489,940	49,294
Wheat Commission	1,230,292	0	1,230,292
Ohio	73,535,535	7,912,257	65,623,278
Development, Department of	48,789,758	0	48,789,758
Education and Workforce, Department of	305,000	270,000	35,000
Mental Health and Addictions Services, Department of	13,345,000	0	13,345,000
Natural Resources, Department of	4,044,548	2,819,495	1,225,053
Transportation, Department of	6,007,875	4,822,762	1,185,113
Water Development Authority	1,043,354	0	1,043,354
Oklahoma	31,173,972	8,868,965	22,305,007
Advancement of Science and Technology, Center for the	7,911,543	0	7,911,543
Agriculture, Food, and Forestry, Department of	804,700	804,700	0
Grand River Dam Authority	410,000	0	410,000
Health, Department of	1,275,333	1,275,333	0
Tobacco Settlement Endowment Trust	13,430,000	0	13,430,000
Transportation, Department of	4,725,224	4,179,110	546,114
Wildlife Conservation, Department of	2,617,172	2,609,822	7,350
Oregon	34,898,696	15,017,978	19,880,718
Agriculture, Department of	307,403	0	307,403
Business Development Department	12,685,262	0	12,685,262
Education, Department of	107,000	107,000	0
Fish and Wildlife, Department of	15,842,487	11,495,504	4,346,983
Forestry, Department of	700,000	0	700,000
Geology and Mineral Industries, Department of	906,807	810,201	96,606
Transportation, Department of	2,677,532	2,602,221	75,311
Water Resources Department	710,934	0	710,934
Watershed Enhancement Board	961,271	3,052	958,219

Table 18. State agency expenditures for R&D for all performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Source of funds	
		Federal government	State and all others ^a
Pennsylvania	95,489,670	10,770,884	84,718,786
Agriculture, Department of	2,837,000	650,000	2,187,000
Community and Economic Development, Department of	25,525,000	0	25,525,000
Conservation and Natural Resources, Department of	691,862	110,693	581,169
Environmental Protection, Department of	580,570	41,473	539,097
Fish and Boat Commission	133,434	73,058	60,376
Game Commission	15,488,147	8,013,178	7,474,969
Health, Department of	48,286,175	0	48,286,175
Susquehanna River Basin Commission	197,000	132,000	65,000
Transportation, Department of	1,750,482	1,750,482	0
Rhode Island	2,668,740	1,468,800	1,199,940
Commerce Corporation	886,473	0	886,473
Fish and Wildlife; Environmental Management, Department of	297,891	297,891	0
Marine Fisheries; Environmental Management, Department of	68,881	68,881	0
Narragansett Bay National Estuarine Research Reserve; Environmental Management, Department of	272,028	272,028	0
Transportation, Department of	1,050,000	830,000	220,000
Water Resources Board	93,467	0	93,467
South Carolina	60,272,615	33,026,390	27,246,225
Agriculture, Department of	1,371,340	400,813	970,527
Disabilities and Special Needs, Department of	14,169,753	4,230,768	9,938,985
Health and Environmental Control, Department of	1,578,338	1,502,809	75,529
Natural Resources, Department of	33,406,763	21,319,538	12,087,225
Public Service Authority	524,025	0	524,025
Research Authority	2,281,886	0	2,281,886
Sea Grant Consortium	5,249,736	4,236,459	1,013,277
Transportation, Department of	1,690,774	1,336,003	354,771
South Dakota	5,069,428	1,483,401	3,586,027
Corn Utilization Council	72,097	0	72,097
Midwest Dairy Association, South Dakota Division	159,219	0	159,219
Nutrient Research and Education Council	1,110,090	0	1,110,090
Oilseeds Council	130,003	0	130,003
Pulse Crop Council	34,292	0	34,292
Soybean Research and Promotion Council	833,323	0	833,323
Transportation, Department of	2,046,079	1,483,401	562,678
Weed and Pest Control Commission	47,000	0	47,000
Wheat Commission	637,325	0	637,325
Tennessee	88,292,627	14,928,353	73,364,274
Economic and Community Development, Department of	31,582,387	0	31,582,387
Education, Department of	49,478,612	13,349,230	36,129,382
Environment and Conservation, Department of	765,089	5,892	759,197
LaunchTN	4,500,000	0	4,500,000
Transportation, Department of	1,966,539	1,573,231	393,308
Texas	263,798,186	25,352,494	238,445,692
Agriculture, Department of	741,393	441,591	299,802
Animal Health Commission	16,968	0	16,968
Cancer Prevention and Research Institute	231,042,658	0	231,042,658
Environmental Quality, Commission on	2,625,587	1,406,578	1,219,009
Parks and Wildlife Department	5,793,793	5,086,941	706,852
Transportation, Department of	22,375,505	18,417,384	3,958,121
Water Development Board	1,202,282	0	1,202,282

Table 18. State agency expenditures for R&D for all performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Source of funds	
		Federal government	State and all others ^a
Utah	11,350,593	1,631,793	9,718,800
Environmental Quality, Department of	1,956,435	328,004	1,628,431
Natural Resources, Department of	6,467,965	0	6,467,965
Transportation, Department of	2,926,193	1,303,789	1,622,404
Vermont	1,724,837	1,510,067	214,770
Agriculture, Food, and Markets, Agency of	9,419	0	9,419
Human Services, Agency of	798,646	735,910	62,736
Natural Resources, Agency of	26,031	19,523	6,508
Transportation, Agency of	890,741	754,634	136,107
Virginia	57,082,897	22,432,942	34,649,955
Agriculture and Consumer Services, Department of	3,728,575	524,165	3,204,410
Commonwealth Health Research Board	1,608,870	0	1,608,870
Education, Department of	1,000,000	750,000	250,000
Energy, Department of	1,664,444	1,001,122	663,322
Environmental Quality, Department of	449,060	314,056	135,004
Forensic Science, Department of	1,163,967	242,130	921,837
Forestry, Department of	823,618	603,708	219,910
Foundation for Healthy Youth	1,192,122	0	1,192,122
Innovation Partnership Authority	16,517,486	6,141,891	10,375,595
Marine Resources Commission	1,941,990	1,509,262	432,728
Natural History, Museum of	1,112,900	0	1,112,900
Rail and Public Transportation	525,000	25,000	500,000
Social Services, Department of	1,123,500	561,750	561,750
Transportation, Department of	20,297,649	9,139,317	11,158,332
Veterans Services, Department of	1,562,314	0	1,562,314
Wildlife Resources, Department of	2,371,402	1,620,541	750,861
Washington	77,892,601	18,223,736	59,668,865
Agriculture, Department of	3,545,097	3,256,692	288,405
Alfalfa Seed Commission	17,000	0	17,000
Asparagus Commission	33,000	0	33,000
Blueberry Commission	231,487	0	231,487
Commerce, Department of	7,989,275	0	7,989,275
Cranberry Commission	11,000	0	11,000
Ecology, Department of	2,724,112	323,284	2,400,828
Fish and Wildlife, Department of	22,265,674	7,715,336	14,550,338
Fruit Commission	60,000	0	60,000
Grain Commission	2,135,826	0	2,135,826
Health, Department of	1,485,000	923,000	562,000
Hop Commission	164,546	0	164,546
Integrated Pest Management, Commission on	432,913	0	432,913
Labor and Industries, Department of	3,918,652	439,824	3,478,828
Mint Commission	40,529	0	40,529
Natural Resources, Department of	16,368,691	911,878	15,456,813
Oilseeds Commission	118,784	0	118,784
Potato Commission	879,508	0	879,508
Puget Sound Partnership	3,715,000	1,845,000	1,870,000
Pulse Crops Commission	142,290	0	142,290
Red Raspberry Commission	209,188	0	209,188
Transportation, Department of	5,472,000	2,568,000	2,904,000
Tree Fruit Research Commission	5,482,677	173,722	5,308,955
Turfgrass Seed Commission	118,269	0	118,269

Table 18. State agency expenditures for R&D for all performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Source of funds	
		Federal government	State and all others ^a
Wine Commission	332,083	67,000	265,083
West Virginia	11,946,339	5,973,233	5,973,106
Agriculture, Department of	160,000	160,000	0
Geological and Economic Survey	3,192,295	266,957	2,925,338
Higher Education Policy Commission	4,412,628	2,533,703	1,878,925
Justice and Community Services, Division of Administrative Services	416,939	79,150	337,789
Natural Resources, Division of	1,563,193	1,172,395	390,798
Transportation, Department of	2,201,284	1,761,028	440,256
Wisconsin	15,612,828	11,746,392	3,866,436
Agriculture, Trade and Consumer Protection, Department of	2,599,764	1,995,742	604,022
Economic Development Corporation	1,500,000	0	1,500,000
Natural Resources, Department of	7,355,100	6,006,499	1,348,601
Transportation, Department of	4,157,964	3,744,151	413,813
Wyoming	13,781,859	8,066,650	5,715,209
Agriculture, Department of	657,131	359,421	297,710
Business Council	1,044,968	0	1,044,968
Enhanced Oil Recovery Institute	6,445,631	5,634,931	810,700
Game and Fish Department	1,323,535	948,540	374,995
State Geological Survey	2,946,055	350,173	2,595,882
Transportation, Department of	967,025	773,585	193,440
Water Development Office	397,514	0	397,514
Puerto Rico ^c	48,065,120	25,382,432	22,682,688
Agriculture, Department of	141,550	72,517	69,033
Economic Development and Commerce, Department of	5,000,000	0	5,000,000
Comprehensive Cancer Center	21,142,003	6,317,982	14,824,021
Health, Department of	15,788,813	15,788,813	0
Institute of Statistics	2,113,301	211,007	1,902,294
Science, Technology and Research Trust	3,879,453	2,992,113	887,340

^a State and all others includes primarily other state governments and city, county, regional, township, or other local governments; it also includes nonprofit organizations and companies.

^b U.S. total reflects all 50 states and the District of Columbia.

^c Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 19. State agency expenditures for R&D for intramural performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	R&D expenditures for intramural performers	Source of funds					
		Federal government	Own state government	Other nonfederal governments	Nonprofit organizations	Businesses and individuals	Higher education institutions
United States ^a	811,861,515	339,587,256	414,911,127	14,120,855	20,147,785	19,246,148	3,848,344
Alabama	9,263,588	5,558,373	2,578,334	1,775	218,044	0	907,062
Education, Department of	1,880,279	1,680,722	199,557	0	0	0	0
Forensic Sciences, Department of	240,688	0	240,688	0	0	0	0
Geological Survey	3,631,424	1,523,422	1,888,183	1,775	218,044	0	0
Marine Environmental Science Consortium, Dauphin Island Sea Lab	3,261,291	2,354,229	0	0	0	0	907,062
Transportation, Department of	249,906	0	249,906	0	0	0	0
Alaska	12,699,964	5,903,653	4,890,861	1,905,450	0	0	0
Environmental Conservation, Department of	64,051	43,921	20,130	0	0	0	0
Natural Resources, Department of; Division of Geological and Geophysical Surveys	10,732,738	4,073,074	4,754,214	1,905,450	0	0	0
Railroad Corporation	1,375,175	1,364,258	10,917	0	0	0	0
Transportation and Public Facilities, Department of	528,000	422,400	105,600	0	0	0	0
Arizona	2,696,089	2,192,449	503,640	0	0	0	0
Game and Fish Department	1,685,239	1,509,629	175,610	0	0	0	0
Juvenile Corrections, Department of	157,324	0	157,324	0	0	0	0
Transportation, Department of	853,526	682,820	170,706	0	0	0	0
Arkansas	1,397,218	1,208,364	188,854	0	0	0	0
Game and Fish Commission	1,354,449	1,174,149	180,300	0	0	0	0
Transportation, Department of	42,769	34,215	8,554	0	0	0	0
California	106,617,344	5,627,942	100,788,690	200,712	0	0	0
Air Resources Board	11,961,830	0	11,961,830	0	0	0	0
Conservation, Department of	2,183,108	786,474	1,396,634	0	0	0	0
Covered California	1,860,000	0	1,860,000	0	0	0	0
Earthquake Authority	75,000	0	0	75,000	0	0	0
Emergency Services Governor's Office	608,673	0	608,673	0	0	0	0
Energy Commission	31,186,420	0	31,186,420	0	0	0	0
Environmental Health Hazard Assessment, Office of	17,514,580	0	17,514,580	0	0	0	0
First 5 California	3,000,000	0	3,000,000	0	0	0	0
Forestry and Fire Protection, Department of	2,678,000	0	2,678,000	0	0	0	0
Housing and Community Development, Department of	500,350	0	500,350	0	0	0	0
Motor Vehicles, Department of	2,234,941	0	2,109,229	125,712	0	0	0
Pesticide Regulation, Department of	14,540,898	0	14,540,898	0	0	0	0
Public Health, Department of	1,197,323	0	1,197,323	0	0	0	0
State Water Resources Control Board	2,189,056	0	2,189,056	0	0	0	0
Toxic Substances Control, Department of	249,832	0	249,832	0	0	0	0

Table 19. State agency expenditures for R&D for intramural performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	R&D expenditures for intramural performers	Source of funds					
		Federal government	Own state government	Other nonfederal governments	Nonprofit organizations	Businesses and individuals	Higher education institutions
Transportation, Department of	14,537,333	4,841,468	9,695,865	0	0	0	0
Water Resources, Department of	100,000	0	100,000	0	0	0	0
Colorado	11,310,318	2,772,233	8,503,556	0	0	34,529	0
Agriculture, Department of	301,916	301,916	0	0	0	0	0
Natural Resources, Department of	7,128,671	1,517,828	5,576,314	0	0	34,529	0
Public Health and Environment, Department of	3,004,731	77,489	2,927,242	0	0	0	0
Transportation, Department of	875,000	875,000	0	0	0	0	0
Connecticut	29,493,426	13,477,159	16,016,267	0	0	0	0
Agricultural Experiment Station	15,285,122	6,587,278	8,697,844	0	0	0	0
Energy and Environmental Protection, Department of	6,475,645	5,812,787	662,858	0	0	0	0
Mental Health and Addiction Services, Department of	6,795,201	660,398	6,134,803	0	0	0	0
Social Services, Department of	416,588	0	416,588	0	0	0	0
Transportation, Department of	520,870	416,696	104,174	0	0	0	0
Delaware	1,676,651	426,834	1,249,817	0	0	0	0
Geological Survey	1,676,651	426,834	1,249,817	0	0	0	0
District of Columbia	5,288,002	4,267,155	1,020,847	0	0	0	0
Health, Department of	4,183,769	4,183,769	0	0	0	0	0
Transportation, Department of	104,233	83,386	20,847	0	0	0	0
Water and Sewer Authority	1,000,000	0	1,000,000	0	0	0	0
Florida	64,369,217	18,447,616	40,884,360	4,927,897	105,778	0	3,566
Agriculture and Consumer Services, Department of	1,266,241	1,172,679	93,562	0	0	0	0
Citrus, Department of	102,243	0	102,243	0	0	0	0
Fish and Wildlife Conservation Commission	61,449,273	17,274,937	39,137,095	4,927,897	105,778	0	3,566
Transportation, Department of	1,551,460	0	1,551,460	0	0	0	0
Georgia	2,783,700	2,430,451	49,884	0	0	303,365	0
Natural Resources, Department of	86,874	36,990	49,884	0	0	0	0
Southern States Energy Board	2,696,826	2,393,461	0	0	0	303,365	0
Hawaii	399,469	399,469	0	0	0	0	0
Agriculture, Department of	147,469	147,469	0	0	0	0	0
Business, Economic Development, and Tourism, Department of	252,000	252,000	0	0	0	0	0
Idaho	4,780,811	3,177,276	998,623	604,912	0	0	0
Fish and Game, Department of	4,540,179	3,002,511	932,756	604,912	0	0	0
Mint Commission	22,176	0	22,176	0	0	0	0
Transportation Department	218,456	174,765	43,691	0	0	0	0
Illinois	368,541	0	368,541	0	0	0	0
Transportation, Department of	368,541	0	368,541	0	0	0	0

Table 19. State agency expenditures for R&D for intramural performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	R&D expenditures for intramural performers	Source of funds					
		Federal government	Own state government	Other nonfederal governments	Nonprofit organizations	Businesses and individuals	Higher education institutions
Indiana	1,001,961	745,859	256,102	0	0	0	0
Natural Resources, Department of	815,953	597,053	218,900	0	0	0	0
Transportation, Department of	186,008	148,806	37,202	0	0	0	0
Iowa	3,146,055	1,540,983	1,486,072	0	119,000	0	0
Management, Department of Data; Division of Planning and Improvement	375,000	125,000	150,000	0	100,000	0	0
Natural Resources, Department of	2,771,055	1,415,983	1,336,072	0	19,000	0	0
Kansas	2,583,385	1,481,225	1,007,129	0	0	0	95,031
State Board of Regents	7,685	0	7,685	0	0	0	0
Transportation, Department of	1,192,892	792,509	400,383	0	0	0	0
Water Office	728,610	198,068	435,511	0	0	0	95,031
Wildlife and Parks, Department of	654,198	490,648	163,550	0	0	0	0
Kentucky	5,621,733	3,826,727	1,795,006	0	0	0	0
Fish and Wildlife Resources, Department of	5,621,733	3,826,727	1,795,006	0	0	0	0
Louisiana	21,806,594	18,661,515	3,145,079	0	0	0	0
Coastal Protection and Restoration Authority	550,908	29,671	521,237	0	0	0	0
Transportation and Development, Department of	3,529,911	2,823,930	705,981	0	0	0	0
Wildlife and Fisheries, Department of	17,725,775	15,807,914	1,917,861	0	0	0	0
Maine	14,933,998	6,345,174	7,214,389	0	772,772	0	601,663
Agriculture, Conservation and Forestry, Department of	1,582,469	382,414	1,200,055	0	0	0	0
Aquaculture Innovation Center	511,217	409,619	39,923	0	61,675	0	0
Inland Fisheries and Wildlife, Department of	1,868,243	1,368,243	500,000	0	0	0	0
Marine Resources, Department of	889,657	889,657	0	0	0	0	0
MDI Biological Laboratory, Center for Biomedical Innovation	9,651,767	2,950,725	5,388,282	0	711,097	0	601,663
Transportation, Department of	430,645	344,516	86,129	0	0	0	0
Maryland	831,311	348,636	482,675	0	0	0	0
Transportation, Department of	831,311	348,636	482,675	0	0	0	0
Massachusetts	1,649,549	655,313	694,236	300,000	0	0	0
Environmental Protection, Department of	333,963	26,843	307,120	0	0	0	0
Fish and Game, Department of	157,441	140,864	16,577	0	0	0	0
Gaming Commission	248,637	0	248,637	0	0	0	0
Transportation, Department of	609,508	487,606	121,902	0	0	0	0
Water Resources Authority	300,000	0	0	300,000	0	0	0
Michigan	190,798	48,523	142,275	0	0	0	0
Agriculture and Rural Development, Department of	35,000	35,000	0	0	0	0	0
Environmental, Great Lakes, and Energy, Department of	155,798	13,523	142,275	0	0	0	0
Minnesota	3,926,669	1,570,703	2,355,966	0	0	0	0

Table 19. State agency expenditures for R&D for intramural performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	R&D expenditures for intramural performers	Source of funds					
		Federal government	Own state government	Other nonfederal governments	Nonprofit organizations	Businesses and individuals	Higher education institutions
Agriculture, Department of	1,189,010	0	1,189,010	0	0	0	0
Employment and Economic Development, Department of	100,000	100,000	0	0	0	0	0
Forest Resources Council	23,780	0	23,780	0	0	0	0
Labor and Industry, Department of	808,354	138,000	670,354	0	0	0	0
Natural Resources, Department of	1,785,025	1,332,703	452,322	0	0	0	0
Transportation, Department of	20,500	0	20,500	0	0	0	0
Mississippi	3,023,466	847,027	352,022	1,824,417	0	0	0
Gulf States Marine Fisheries Commission	58,626	58,626	0	0	0	0	0
Marine Resources, Department of	2,351,341	379,055	147,869	1,824,417	0	0	0
Transportation, Department of	5,136	4,109	1,027	0	0	0	0
Wildlife, Fisheries, and Parks, Department of	608,363	405,237	203,126	0	0	0	0
Missouri	4,344,942	1,770,172	2,557,770	0	17,000	0	0
Conservation, Department of	3,501,656	1,756,172	1,745,484	0	0	0	0
Wine and Grape Board	843,286	14,000	812,286	0	17,000	0	0
Montana	4,810,365	3,131,915	1,675,285	0	3,165	0	0
Environmental Quality, Department of	206,364	146,364	60,000	0	0	0	0
Fish, Wildlife and Parks, Department of	4,147,421	2,620,287	1,523,969	0	3,165	0	0
Transportation, Department of	456,580	365,264	91,316	0	0	0	0
Nebraska	802,690	409,086	393,604	0	0	0	0
Game and Parks Commission	716,073	399,169	316,904	0	0	0	0
Transportation, Department of	86,617	9,917	76,700	0	0	0	0
Nevada	642,255	361,782	280,473	0	0	0	0
Agriculture, Department of	203,079	143,079	60,000	0	0	0	0
Conservation and Natural Resources, Department of	439,176	218,703	220,473	0	0	0	0
New Hampshire	88,795	71,036	17,759	0	0	0	0
Transportation, Department of	88,795	71,036	17,759	0	0	0	0
New Jersey	4,104,226	742,040	3,362,186	0	0	0	0
Children and Families, Department of	179,345	0	179,345	0	0	0	0
Corrections, Department of	544,202	113,985	430,217	0	0	0	0
Environmental Protection, Department of	2,452,922	152,394	2,300,528	0	0	0	0
Pinelands Commission	781,071	328,975	452,096	0	0	0	0
State Parole Board	146,686	146,686	0	0	0	0	0
New Mexico	1,296,000	1,025,500	270,500	0	0	0	0
Game and Fish, Department of	296,000	225,500	70,500	0	0	0	0
Transportation, Department of	1,000,000	800,000	200,000	0	0	0	0
New York	304,438,429	153,766,985	110,974,066	10,919	18,674,693	18,908,254	2,103,512

Table 19. State agency expenditures for R&D for intramural performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	R&D expenditures for intramural performers	Source of funds					
		Federal government	Own state government	Other nonfederal governments	Nonprofit organizations	Businesses and individuals	Higher education institutions
Agriculture and Markets, Department of	2,395,000	2,395,000	0	0	0	0	0
Energy Research and Development Authority	9,342,472	0	9,342,472	0	0	0	0
Environmental Conservation, Department of	3,740,360	1,691,190	2,049,170	0	0	0	0
Health, Department of	28,078,903	15,162,241	9,440,976	10,919	2,798,114	477,147	189,506
Mental Health, Office of	152,569,872	69,408,211	70,754,208	0	8,657,612	1,853,280	1,896,561
People with Developmental Disabilities, Office of	2,593,058	2,331,915	0	0	261,143	0	0
Power Authority	3,806,379	177,600	3,211,429	0	307,500	109,850	0
Roswell Park Comprehensive Cancer Center	87,787,967	59,654,157	4,998,064	0	6,650,324	16,467,977	17,445
State Museum	11,094,406	522,661	10,571,745	0	0	0	0
Transportation, Department of	3,030,012	2,424,010	606,002	0	0	0	0
North Carolina	17,211,359	1,758,348	15,453,011	0	0	0	0
Agriculture and Consumer Services, Department of	13,214,600	0	13,214,600	0	0	0	0
Environmental Quality, Department of	1,172,150	1,153,150	19,000	0	0	0	0
Natural and Cultural Resources, Department of	2,068,112	0	2,068,112	0	0	0	0
Transportation, Department of	756,497	605,198	151,299	0	0	0	0
North Dakota	1,437,702	822,184	615,518	0	0	0	0
Game and Fish, Department of	250,000	187,500	62,500	0	0	0	0
Historical Society of North Dakota	1,135,584	592,982	542,602	0	0	0	0
Transportation, Department of	52,118	41,702	10,416	0	0	0	0
Ohio	3,342,419	514,089	2,828,330	0	0	0	0
Education and Workforce, Department of	35,000	0	35,000	0	0	0	0
Mental Health and Addictions Services, Department of	2,345,000	0	2,345,000	0	0	0	0
Natural Resources, Department of	962,419	514,089	448,330	0	0	0	0
Oklahoma	1,157,820	801,917	355,903	0	0	0	0
Grand River Dam Authority	250,000	0	250,000	0	0	0	0
Health, Department of	394,051	394,051	0	0	0	0	0
Transportation, Department of	492,768	394,215	98,553	0	0	0	0
Wildlife Conservation, Department of	21,001	13,651	7,350	0	0	0	0
Oregon	14,534,155	10,516,643	3,967,376	50,136	0	0	0
Education, Department of	107,000	107,000	0	0	0	0	0
Fish and Wildlife, Department of	12,536,982	9,433,809	3,103,173	0	0	0	0
Forestry, Department of	350,000	0	350,000	0	0	0	0
Geology and Mineral Industries, Department of	906,807	810,201	96,606	0	0	0	0
Transportation, Department of	237,892	162,581	75,311	0	0	0	0
Water Resources Department	384,093	0	333,957	50,136	0	0	0
Watershed Enhancement Board	11,381	3,052	8,329	0	0	0	0

Table 19. State agency expenditures for R&D for intramural performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	R&D expenditures for intramural performers	Source of funds					
		Federal government	Own state government	Other nonfederal governments	Nonprofit organizations	Businesses and individuals	Higher education institutions
Pennsylvania	15,446,289	8,204,747	7,185,542	56,000	0	0	0
Conservation and Natural Resources, Department of	120,000	0	120,000	0	0	0	0
Environmental Protection, Department of	41,473	41,473	0	0	0	0	0
Fish and Boat Commission	89,822	29,446	60,376	0	0	0	0
Game Commission	15,018,344	8,013,178	7,005,166	0	0	0	0
Susquehanna River Basin Commission	176,650	120,650	0	56,000	0	0	0
Rhode Island	342,028	322,028	20,000	0	0	0	0
Narragansett Bay National Estuarine Research Reserve; Environmental Management, Department of	272,028	272,028	0	0	0	0	0
Transportation, Department of	70,000	50,000	20,000	0	0	0	0
South Carolina	37,802,089	24,564,021	13,050,045	50,513	0	0	137,510
Health and Environmental Control, Department of	1,578,338	1,502,809	0	0	0	0	75,529
Natural Resources, Department of	32,991,106	20,903,881	12,087,225	0	0	0	0
Sea Grant Consortium	2,922,829	1,926,094	884,241	50,513	0	0	61,981
Transportation, Department of	309,816	231,237	78,579	0	0	0	0
South Dakota	319,204	217,894	17,314	0	83,996	0	0
Soybean Research and Promotion Council	17,314	0	17,314	0	0	0	0
Transportation, Department of	301,890	217,894	0	0	83,996	0	0
Tennessee	0	0	0	0	0	0	0
Texas	1,529,174	1,104,565	424,609	0	0	0	0
Animal Health Commission	16,968	0	16,968	0	0	0	0
Environmental Quality, Commission on	69,773	0	69,773	0	0	0	0
Parks and Wildlife Department	1,442,433	1,104,565	337,868	0	0	0	0
Utah	8,312,136	535,873	7,776,263	0	0	0	0
Environmental Quality, Department of	537,957	328,004	209,953	0	0	0	0
Natural Resources, Department of	6,467,965	0	6,467,965	0	0	0	0
Transportation, Department of	1,306,214	207,869	1,098,345	0	0	0	0
Vermont	1,298,300	1,177,674	120,626	0	0	0	0
Human Services, Agency of	798,646	735,910	62,736	0	0	0	0
Transportation, Agency of	499,654	441,764	57,890	0	0	0	0
Virginia	19,597,013	7,107,409	12,489,604	0	0	0	0
Education, Department of	750,000	500,000	250,000	0	0	0	0
Energy, Department of	1,592,500	929,178	663,322	0	0	0	0
Environmental Quality, Department of	153,998	123,112	30,886	0	0	0	0
Forensic Science, Department of	1,163,967	242,130	921,837	0	0	0	0
Forestry, Department of	823,618	603,708	219,910	0	0	0	0

Table 19. State agency expenditures for R&D for intramural performers, by state department or agency and source of funds: FY 2024

(Dollars)

State and department or agency	R&D expenditures for intramural performers	Source of funds					
		Federal government	Own state government	Other nonfederal governments	Nonprofit organizations	Businesses and individuals	Higher education institutions
Innovation Partnership Authority	2,265,938	474,255	1,791,683	0	0	0	0
Marine Resources Commission	279,880	279,880	0	0	0	0	0
Natural History, Museum of	1,112,900	0	1,112,900	0	0	0	0
Rail and Public Transportation	125,000	25,000	100,000	0	0	0	0
Social Services, Department of	1,123,500	561,750	561,750	0	0	0	0
Transportation, Department of	9,660,310	3,003,855	6,656,455	0	0	0	0
Wildlife Resources, Department of	545,402	364,541	180,861	0	0	0	0
Washington	42,774,429	11,619,372	26,813,596	4,188,124	153,337	0	0
Ecology, Department of	1,810,625	323,284	1,480,741	0	6,600	0	0
Fish and Wildlife, Department of	21,880,775	7,715,336	9,991,156	4,027,546	146,737	0	0
Health, Department of	1,411,000	877,000	534,000	0	0	0	0
Labor and Industries, Department of	3,918,652	439,824	3,478,828	0	0	0	0
Natural Resources, Department of	11,714,701	911,878	10,642,245	160,578	0	0	0
Puget Sound Partnership	115,000	45,000	70,000	0	0	0	0
Transportation, Department of	1,535,000	1,269,000	266,000	0	0	0	0
Tree Fruit Research Commission	388,676	38,050	350,626	0	0	0	0
West Virginia	4,775,295	1,542,986	3,232,309	0	0	0	0
Agriculture, Department of	160,000	160,000	0	0	0	0	0
Geological and Economic Survey	2,843,833	266,957	2,576,876	0	0	0	0
Higher Education Policy Commission	29,186	29,186	0	0	0	0	0
Justice and Community Services, Division of Administrative Services	416,939	79,150	337,789	0	0	0	0
Natural Resources, Division of	1,051,541	788,656	262,885	0	0	0	0
Transportation, Department of	273,796	219,037	54,759	0	0	0	0
Wisconsin	5,361,683	4,552,004	809,679	0	0	0	0
Natural Resources, Department of	4,990,353	4,254,940	735,413	0	0	0	0
Transportation, Department of	371,330	297,064	74,266	0	0	0	0
Wyoming	4,232,861	986,327	3,246,534	0	0	0	0
Enhanced Oil Recovery Institute	550,834	92,169	458,665	0	0	0	0
Game and Fish Department	626,122	456,105	170,017	0	0	0	0
State Geological Survey	2,946,055	350,173	2,595,882	0	0	0	0
Transportation, Department of	109,850	87,880	21,970	0	0	0	0
Puerto Rico ^b	34,169,608	18,890,314	15,279,294	0	0	0	0
Comprehensive Cancer Center	13,377,000	0	13,377,000	0	0	0	0
Health, Department of	15,788,813	15,788,813	0	0	0	0	0
Institute of Statistics	2,113,301	211,007	1,902,294	0	0	0	0
Science, Technology and Research Trust	2,890,494	2,890,494	0	0	0	0	0

^a U.S. total reflects all 50 states and the District of Columbia.

^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

Note(s):

Intramural performers includes a department's or agency's own employees who perform R&D and services performed by others in support of an internal R&D project.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
United States ^g	3,344,696,717	811,861,515	2,532,835,202	1,234,230,762	674,010,142	440,821,007	116,971,769	66,801,522
Alabama	65,159,736	9,263,588	55,896,148	12,345,893	1,499,040	17,244,865	24,806,350	0
Commerce, Department of	38,319,907	0	38,319,907	1,000,000	319,907	17,000,000	20,000,000	0
Conservation and Natural Resources, Department of; Wildlife and Freshwater Fisheries Division	2,735,751	0	2,735,751	2,333,574	402,177	0	0	0
Economic and Community Affairs, Department of	3,010,094	0	3,010,094	2,432,815	577,279	0	0	0
Education, Department of	3,899,855	1,880,279	2,019,576	525,034	199,677	244,865	1,050,000	0
Forensic Sciences, Department of	240,688	240,688	0	0	0	0	0	0
Geological Survey	3,631,424	3,631,424	0	0	0	0	0	0
Marine Environmental Science Consortium, Dauphin Island Sea Lab	3,261,291	3,261,291	0	0	0	0	0	0
Supercomputer Authority	4,500,525	0	4,500,525	4,500,525	0	0	0	0
Transportation, Department of	5,560,201	249,906	5,310,295	1,553,945	0	0	3,756,350	0
Alaska	18,477,002	12,699,964	5,777,038	2,111,458	2,791,580	0	500,000	374,000
Energy Authority	82,223	0	82,223	0	82,223	0	0	0
Environmental Conservation, Department of	122,970	64,051	58,919	47,249	11,670	0	0	0
Housing Finance Corporation	500,000	0	500,000	0	0	0	500,000	0
Natural Resources, Department of; Division of Geological and Geophysical Surveys	10,732,738	10,732,738	0	0	0	0	0	0
Railroad Corporation	3,007,378	1,375,175	1,632,203	0	1,632,203	0	0	0
Seafood Marketing Institute	178,293	0	178,293	0	178,293	0	0	0
Transportation and Public Facilities, Department of	3,853,400	528,000	3,325,400	2,064,209	887,191	0	0	374,000
Arizona	17,162,845	2,696,089	14,466,756	6,304,774	8,017,082	0	144,900	0
Agriculture, Department of	1,847,686	0	1,847,686	1,709,354	138,332	0	0	0
Game and Fish Department	1,989,306	1,685,239	304,067	289,167	0	0	14,900	0
Health Services, Department of	11,719,582	0	11,719,582	3,866,502	7,853,080	0	0	0
Juvenile Corrections, Department of	216,653	157,324	59,329	33,659	25,670	0	0	0
Transportation, Department of	1,389,618	853,526	536,092	406,092	0	0	130,000	0
Arkansas	13,727,825	1,397,218	12,330,607	11,809,957	345,070	30,901	144,679	0
Corn and Grain Sorghum Promotion Board	1,021,996	0	1,021,996	1,021,996	0	0	0	0
Economic Development Commission	2,998,121	0	2,998,121	2,998,121	0	0	0	0
Game and Fish Commission	3,142,997	1,354,449	1,788,548	1,281,824	339,120	22,925	144,679	0
Natural Heritage Commission	38,926	0	38,926	25,000	5,950	7,976	0	0
Rice Research and Promotion Board	2,927,141	0	2,927,141	2,927,141	0	0	0	0
Soybean Promotion Board	3,400,000	0	3,400,000	3,400,000	0	0	0	0
Transportation, Department of	198,644	42,769	155,875	155,875	0	0	0	0
California	800,971,651	106,617,344	694,354,307	269,502,011	230,419,565	99,320,735	45,439,536	49,672,460
Air Resources Board	19,974,359	11,961,830	8,012,529	5,203,041	1,791,270	552,500	465,718	0

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
Conservation, Department of	3,136,065	2,183,108	952,957	933,957	19,000	0	0	0
Corrections and Rehabilitation, Department of	2,226,717	0	2,226,717	0	2,226,717	0	0	0
Covered California	10,906,729	1,860,000	9,046,729	1,100,051	7,946,678	0	0	0
Dairy Council	100,000	0	100,000	100,000	0	0	0	0
Delta Stewardship Council	4,842,068	0	4,842,068	3,511,975	634,247	58,537	637,309	0
Earthquake Authority	75,000	75,000	0	0	0	0	0	0
Emergency Services Governor's Office	1,708,673	608,673	1,100,000	1,100,000	0	0	0	0
Energy Commission	246,371,838	31,186,420	215,185,418	20,341,476	133,300,614	36,143,338	25,399,990	0
Environmental Health Hazard Assessment, Office of	21,350,349	17,514,580	3,835,769	3,592,481	243,288	0	0	0
First 5 California	6,000,000	3,000,000	3,000,000	1,500,000	500,000	0	1,000,000	0
Food and Agriculture, Department of	6,164,999	0	6,164,999	5,808,925	0	94,539	261,535	0
Forestry and Fire Protection, Department of	14,178,000	2,678,000	11,500,000	9,700,000	0	0	1,800,000	0
Horse Racing Board	1,064,589	0	1,064,589	1,064,589	0	0	0	0
Housing and Community Development, Department of	500,350	500,350	0	0	0	0	0	0
Institute for Regenerative Medicine	297,497,898	0	297,497,898	164,950,961	78,736,545	53,810,392	0	0
Motor Vehicles, Department of	2,391,913	2,234,941	156,972	156,972	0	0	0	0
Parks and Recreation, Department of	3,297,352	0	3,297,352	3,297,352	0	0	0	0
Pesticide Regulation, Department of	21,928,190	14,540,898	7,387,292	2,275,000	0	5,112,292	0	0
Public Health, Department of	9,028,453	1,197,323	7,831,130	7,373,586	457,544	0	0	0
Public Utilities Commission, Executive Division	49,500,765	0	49,500,765	0	0	0	0	49,500,765
Resources Recycling and Recovery, Department of	258,397	0	258,397	0	258,397	0	0	0
San Diego River Conservancy	1,016,645	0	1,016,645	0	0	1,016,645	0	0
State Coastal Conservancy	850,449	0	850,449	235,297	44,217	426,779	144,156	0
State Water Resources Control Board	10,772,717	2,189,056	8,583,661	1,806,060	1,615,330	2,105,713	2,884,863	171,695
Toxic Substances Control, Department of	249,832	249,832	0	0	0	0	0	0
Transportation, Department of	53,871,866	14,537,333	39,334,533	25,342,850	2,645,718	0	11,345,965	0
Water Resources, Department of	11,707,438	100,000	11,607,438	10,107,438	0	0	1,500,000	0
Colorado	42,146,785	11,310,318	30,836,467	10,772,853	15,111,784	999,789	3,835,524	116,517
Agriculture, Department of	301,916	301,916	0	0	0	0	0	0
Economic Development and International Trade, Office of	21,935,844	0	21,935,844	5,076,970	14,447,568	999,789	1,300,000	111,517
Higher Education Competitive Research Authority	2,622,484	0	2,622,484	2,622,484	0	0	0	0
Natural Resources, Department of	7,222,995	7,128,671	94,324	42,000	0	0	47,324	5,000
Public Health and Environment, Department of	4,829,862	3,004,731	1,825,131	1,577,246	247,885	0	0	0
Transportation, Department of	4,849,531	875,000	3,974,531	1,090,000	396,331	0	2,488,200	0
Wine Industry Development Board	384,153	0	384,153	364,153	20,000	0	0	0
Connecticut	59,935,851	29,493,426	30,442,425	1,652,321	26,405,003	0	182,750	2,202,351

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
Agricultural Experiment Station	15,285,122	15,285,122	0	0	0	0	0	0
Energy and Environmental Protection, Department of	7,420,806	6,475,645	945,161	443,058	319,353	0	182,750	0
Innovation Inc.	26,085,650	0	26,085,650	0	26,085,650	0	0	0
Mental Health and Addiction Services, Department of	6,795,201	6,795,201	0	0	0	0	0	0
Social Services, Department of	691,588	416,588	275,000	275,000	0	0	0	0
Transportation, Department of	3,657,484	520,870	3,136,614	934,263	0	0	0	2,202,351
Delaware	3,706,676	1,676,651	2,030,025	865,514	1,084,511	0	80,000	0
Geological Survey	1,756,651	1,676,651	80,000	0	0	0	80,000	0
Natural Resources and Environmental Control, Department of	536,113	0	536,113	393,826	142,287	0	0	0
Transportation, Department of	1,413,912	0	1,413,912	471,688	942,224	0	0	0
District of Columbia	8,243,133	5,288,002	2,955,131	895,111	231,770	1,377,309	450,941	0
Energy and Environment, Department of	350,270	0	350,270	0	181,770	68,500	100,000	0
Health, Department of	5,492,578	4,183,769	1,308,809	0	0	1,308,809	0	0
Transportation, Department of	900,285	104,233	796,052	445,111	0	0	350,941	0
Water and Sewer Authority	1,500,000	1,000,000	500,000	450,000	50,000	0	0	0
Florida	326,433,033	64,369,217	262,063,816	94,151,315	1,809,791	166,021,910	80,800	0
Agriculture and Consumer Services, Department of	54,507,248	1,266,241	53,241,007	13,244,027	225,483	39,744,042	27,455	0
Citrus, Department of	3,049,833	102,243	2,947,590	202,570	0	2,745,020	0	0
Fish and Wildlife Conservation Commission	72,378,754	61,449,273	10,929,481	3,928,508	0	6,947,628	53,345	0
Health, Department of	181,724,073	0	181,724,073	65,138,853	0	116,585,220	0	0
Space Florida	1,235,000	0	1,235,000	90,000	1,145,000	0	0	0
Transportation, Department of	13,538,125	1,551,460	11,986,665	11,547,357	439,308	0	0	0
Georgia	28,195,324	2,783,700	25,411,624	14,458,949	7,796,344	1,854,665	1,091,666	210,000
Commodity Commission, Agriculture, Department of	2,864,387	0	2,864,387	2,864,387	0	0	0	0
Natural Resources, Department of	2,390,690	86,874	2,303,816	2,303,816	0	0	0	0
Southern States Energy Board	13,864,817	2,696,826	11,167,991	3,354,056	7,796,344	17,591	0	0
Transportation, Department of	9,075,430	0	9,075,430	5,936,690	0	1,837,074	1,091,666	210,000
Hawaii	6,358,304	399,469	5,958,835	3,989,355	1,638,038	225,000	106,442	0
Agriculture, Department of	748,473	147,469	601,004	462,966	138,038	0	0	0
Business, Economic Development, and Tourism, Department of	1,752,000	252,000	1,500,000	0	1,500,000	0	0	0
Land and Natural Resources, Department of	920,203	0	920,203	588,761	0	225,000	106,442	0
Transportation, Department of	2,937,628	0	2,937,628	2,937,628	0	0	0	0
Idaho	14,897,781	4,780,811	10,116,970	6,674,708	1,197,783	628,909	1,367,967	247,603
Agriculture, Department of	844,061	0	844,061	441,751	0	154,707	0	247,603
Barley Commission	293,740	0	293,740	262,637	0	31,103	0	0
Bean Commission	36,218	0	36,218	36,218	0	0	0	0

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
Dairy West	3,090,000	0	3,090,000	3,090,000	0	0	0	0
Fish and Game, Department of	6,062,574	4,540,179	1,522,395	595,132	790,717	7,930	128,616	0
Mint Commission	85,171	22,176	62,995	0	14,600	48,395	0	0
Oilseed Commission	68,064	0	68,064	68,064	0	0	0	0
Pea and Lentil Commission	68,766	0	68,766	68,766	0	0	0	0
Potato Commission	695,006	0	695,006	657,094	37,912	0	0	0
Transportation Department	2,633,825	218,456	2,415,369	460,105	354,554	386,774	1,213,936	0
Wheat Commission	1,020,356	0	1,020,356	994,941	0	0	25,415	0
Illinois	17,571,750	368,541	17,203,209	16,749,209	0	454,000	0	0
Children and Family Services, Department of	2,749,246	0	2,749,246	2,749,246	0	0	0	0
Nature Preserves Commission	500,000	0	500,000	500,000	0	0	0	0
Nutrient Research and Education Council	4,123,526	0	4,123,526	4,123,526	0	0	0	0
Public Health, Department of	454,000	0	454,000	0	0	454,000	0	0
Transportation, Department of	9,744,978	368,541	9,376,437	9,376,437	0	0	0	0
Indiana	32,777,869	1,001,961	31,775,908	24,393,336	7,382,572	0	0	0
Economic Development Corporation	7,300,000	0	7,300,000	0	7,300,000	0	0	0
Natural Resources, Department of	3,215,311	815,953	2,399,358	2,316,786	82,572	0	0	0
Transportation, Department of	22,262,558	186,008	22,076,550	22,076,550	0	0	0	0
Iowa	14,471,132	3,146,055	11,325,077	8,856,324	2,424,124	44,629	0	0
Beef Council	438,439	0	438,439	438,439	0	0	0	0
Management, Department of Data; Division of Planning and Improvement	375,000	375,000	0	0	0	0	0	0
Midwest Dairy Association, Iowa Division	53,748	0	53,748	53,748	0	0	0	0
Natural Resources, Department of	4,471,907	2,771,055	1,700,852	1,503,222	153,001	44,629	0	0
Transportation, Department of	9,132,038	0	9,132,038	6,860,915	2,271,123	0	0	0
Kansas	12,652,250	2,583,385	10,068,865	7,537,068	184,773	50,000	2,297,024	0
Corn Commission	365,705	0	365,705	315,823	0	0	49,882	0
Grain Sorghum Commission	1,245,590	0	1,245,590	1,245,590	0	0	0	0
Soybean Commission	1,091,882	0	1,091,882	1,071,882	20,000	0	0	0
State Board of Regents	1,000,950	7,685	993,265	993,265	0	0	0	0
Sunflower Commission	12,862	0	12,862	12,862	0	0	0	0
Transportation, Department of	3,630,258	1,192,892	2,437,366	854,122	104,773	0	1,478,471	0
Water Office	1,769,184	728,610	1,040,574	271,903	0	0	768,671	0
Wheat Commission	1,355,158	0	1,355,158	1,245,158	60,000	50,000	0	0
Wildlife and Parks, Department of	2,180,661	654,198	1,526,463	1,526,463	0	0	0	0
Kentucky	31,186,521	5,621,733	25,564,788	20,475,396	4,829,598	0	259,794	0
Economic Development, Cabinet for	3,577,283	0	3,577,283	1,648,739	1,928,544	0	0	0

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
Fish and Wildlife Resources, Department of	8,872,995	5,621,733	3,251,262	348,414	2,901,054	0	1,794	0
Nature Preserves, Office of Kentucky	20,767	0	20,767	20,767	0	0	0	0
Public Health, Department for	8,293,825	0	8,293,825	8,293,825	0	0	0	0
Soybean Promotion Board	430,219	0	430,219	430,219	0	0	0	0
Transportation Cabinet	9,991,432	0	9,991,432	9,733,432	0	0	258,000	0
Louisiana	45,656,537	21,806,594	23,849,943	16,921,908	6,760,756	0	83,640	83,639
Board of Regents	11,486,002	0	11,486,002	11,486,002	0	0	0	0
Coastal Protection and Restoration Authority	3,981,014	550,908	3,430,106	656,403	2,606,424	0	83,640	83,639
Transportation and Development, Department of	8,255,854	3,529,911	4,725,943	4,575,943	150,000	0	0	0
Wildlife and Fisheries, Department of	21,933,667	17,725,775	4,207,892	203,560	4,004,332	0	0	0
Maine	41,400,506	14,933,998	26,466,508	2,977,792	18,701,707	4,617,325	169,684	0
Agriculture, Conservation and Forestry, Department of	1,766,203	1,582,469	183,734	4,800	178,934	0	0	0
Aquaculture Innovation Center	511,217	511,217	0	0	0	0	0	0
Inland Fisheries and Wildlife, Department of	2,000,000	1,868,243	131,757	56,306	0	75,451	0	0
Marine Resources, Department of	1,170,818	889,657	281,161	223,445	39,284	18,432	0	0
MDI Biological Laboratory, Center for Biomedical Innovation	11,668,074	9,651,767	2,016,307	1,528,406	0	487,901	0	0
Technology Institute	22,429,936	0	22,429,936	415,000	18,333,276	3,680,660	1,000	0
Transportation, Department of	1,854,258	430,645	1,423,613	749,835	150,213	354,881	168,684	0
Maryland	41,003,629	831,311	40,172,318	35,406,320	4,765,998	0	0	0
Energy Administration	1,000,000	0	1,000,000	1,000,000	0	0	0	0
Environment, Department of	70,000	0	70,000	70,000	0	0	0	0
Health, Department of	15,000,000	0	15,000,000	15,000,000	0	0	0	0
Natural Resources, Department of	87,000	0	87,000	87,000	0	0	0	0
Technology Development Corporation	22,278,524	0	22,278,524	18,045,694	4,232,830	0	0	0
Transportation, Department of	2,568,105	831,311	1,736,794	1,203,626	533,168	0	0	0
Massachusetts	58,755,361	1,649,549	57,105,812	18,760,192	32,033,568	1,835,325	0	4,476,727
Clean Energy Technology Center	33,961,301	0	33,961,301	1,972,423	27,656,926	0	0	4,331,952
Environmental Protection, Department of	2,125,890	333,963	1,791,927	996,986	784,941	10,000	0	0
Fish and Game, Department of	280,312	157,441	122,871	0	36,197	86,674	0	0
Gaming Commission	1,359,461	248,637	1,110,824	746,772	364,052	0	0	0
MassVentures	195,000	0	195,000	195,000	0	0	0	0
Mental Health, Department of	2,971,914	0	2,971,914	1,040,838	563,800	1,367,276	0	0
Public Health, Department of	2,346,693	0	2,346,693	2,147,306	54,612	0	0	144,775
Technology Park Corporation	6,687,580	0	6,687,580	4,093,165	2,573,040	21,375	0	0
Transportation, Department of	8,177,210	609,508	7,567,702	7,567,702	0	0	0	0
Water Resources Authority	650,000	300,000	350,000	0	0	350,000	0	0

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
Michigan	16,827,281	190,798	16,636,483	12,409,282	879,775	579,487	2,767,939	0
Agriculture and Rural Development, Department of	3,785,298	35,000	3,750,298	3,710,445	0	75	39,778	0
Economic Development Corporation	4,500,000	0	4,500,000	4,357,000	0	143,000	0	0
Environmental, Great Lakes, and Energy, Department of	1,374,488	155,798	1,218,690	1,156,708	13,222	0	48,760	0
Health and Human Services, Department of	852,096	0	852,096	852,096	0	0	0	0
Transportation, Department of	6,315,399	0	6,315,399	2,333,033	866,553	436,412	2,679,401	0
Minnesota	28,917,361	3,926,669	24,990,692	16,559,360	5,025,803	149,555	3,255,974	0
Agriculture, Department of	7,141,691	1,189,010	5,952,681	5,128,867	140,417	149,555	533,842	0
Employment and Economic Development, Department of	100,000	100,000	0	0	0	0	0	0
Forest Resources Council	167,362	23,780	143,582	143,582	0	0	0	0
Labor and Industry, Department of	933,353	808,354	124,999	99,999	25,000	0	0	0
Midwest Dairy Association, Minnesota Division	292,250	0	292,250	292,250	0	0	0	0
Natural Resources, Department of	1,828,394	1,785,025	43,369	33,018	10,351	0	0	0
Pollution Control Agency	40,889	0	40,889	27,549	13,340	0	0	0
Transportation, Department of	18,413,422	20,500	18,392,922	10,834,095	4,836,695	0	2,722,132	0
Mississippi	12,365,286	3,023,466	9,341,820	5,976,941	264,176	0	3,100,703	0
Agriculture and Commerce, Department of	270,332	0	270,332	270,332	0	0	0	0
Environmental Quality, Department of	902,684	0	902,684	902,684	0	0	0	0
Gulf States Marine Fisheries Commission	1,430,001	58,626	1,371,375	982,859	0	0	388,516	0
Marine Resources, Department of	4,833,162	2,351,341	2,481,821	2,481,821	0	0	0	0
Transportation, Department of	3,205,084	5,136	3,199,948	247,960	239,801	0	2,712,187	0
Wildlife, Fisheries, and Parks, Department of	1,724,023	608,363	1,115,660	1,091,285	24,375	0	0	0
Missouri	17,580,231	4,344,942	13,235,289	10,350,386	2,668,221	100,148	116,534	0
Agriculture, Department of	984,588	0	984,588	960,770	14,104	9,714	0	0
Conservation, Department of	6,743,448	3,501,656	3,241,792	3,054,824	0	90,434	96,534	0
Mental Health, Department of	485,000	0	485,000	485,000	0	0	0	0
Midwest Dairy Association, Missouri Division	50,877	0	50,877	50,877	0	0	0	0
Natural Resources, Department of	849,546	0	849,546	849,546	0	0	0	0
Technology Corporation	3,538,639	0	3,538,639	1,979,775	1,558,864	0	0	0
Transportation, Department of	4,028,969	0	4,028,969	2,933,716	1,095,253	0	0	0
Wine and Grape Board	899,164	843,286	55,878	35,878	0	0	20,000	0
Montana	14,667,731	4,810,365	9,857,366	8,862,320	37,753	585,793	371,500	0
Agriculture, Department of	5,587,028	0	5,587,028	5,587,028	0	0	0	0
Environmental Quality, Department of	206,364	206,364	0	0	0	0	0	0
Fish, Wildlife and Parks, Department of	6,887,404	4,147,421	2,739,983	2,739,983	0	0	0	0
Natural Resources and Conservation, Department of	8,670	0	8,670	8,670	0	0	0	0

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
Transportation, Department of	1,978,265	456,580	1,521,685	526,639	37,753	585,793	371,500	0
Nebraska	31,562,589	802,690	30,759,899	27,318,591	3,318,073	39,422	48,200	35,613
Agriculture, Department of	949,078	0	949,078	821,507	108,149	19,422	0	0
Corn Board	786,777	0	786,777	786,777	0	0	0	0
Dry Bean Commission	154,550	0	154,550	154,550	0	0	0	0
Economic Development, Department of	4,867,332	0	4,867,332	1,973,252	2,894,080	0	0	0
Game and Parks Commission	3,146,687	716,073	2,430,614	2,164,770	265,844	0	0	0
Grain Sorghum Board	3,000	0	3,000	3,000	0	0	0	0
Health and Human Services, Department of	18,981,074	0	18,981,074	18,981,074	0	0	0	0
Natural Resources, Department of	50,000	0	50,000	0	50,000	0	0	0
Pea And Lentil Commission	34,292	0	34,292	34,292	0	0	0	0
Transportation, Department of	1,745,533	86,617	1,658,916	1,595,103	0	0	28,200	35,613
Wheat Board	844,266	0	844,266	804,266	0	20,000	20,000	0
Nevada	6,811,110	642,255	6,168,855	3,835,551	40,368	0	2,292,936	0
Agriculture, Department of	203,079	203,079	0	0	0	0	0	0
Conservation and Natural Resources, Department of	2,916,818	439,176	2,477,642	1,247,962	0	0	1,229,680	0
Economic Development, Governor's office of	2,164,225	0	2,164,225	2,164,225	0	0	0	0
Transportation, Department of	1,526,988	0	1,526,988	423,364	40,368	0	1,063,256	0
New Hampshire	1,257,547	88,795	1,168,752	394,554	145,627	34,957	593,614	0
Agriculture, Markets and Food, Department of	156,922	0	156,922	121,965	0	34,957	0	0
Transportation, Department of	1,100,625	88,795	1,011,830	272,589	145,627	0	593,614	0
New Jersey	114,110,735	4,104,226	110,006,509	54,094,053	1,078,900	54,722,173	111,383	0
Children and Families, Department of	1,377,857	179,345	1,198,512	1,014,512	0	120,000	64,000	0
Corrections, Department of	544,202	544,202	0	0	0	0	0	0
Environmental Protection, Department of	8,270,381	2,452,922	5,817,459	2,895,717	428,824	2,445,535	47,383	0
Health, Department of	90,391,750	0	90,391,750	41,235,112	0	49,156,638	0	0
Pinelands Commission	782,819	781,071	1,748	0	1,748	0	0	0
Secretary of Higher Education, Office of	7,500,000	0	7,500,000	4,500,000	0	3,000,000	0	0
State Parole Board	146,686	146,686	0	0	0	0	0	0
Transportation, Department of	5,097,040	0	5,097,040	4,448,712	648,328	0	0	0
New Mexico	3,543,922	1,296,000	2,247,922	1,988,385	69,125	34,882	155,530	0
Game and Fish, Department of	1,129,000	296,000	833,000	813,000	20,000	0	0	0
Transportation, Department of	2,342,423	1,000,000	1,342,423	1,102,886	49,125	34,882	155,530	0
Western State Air Resources Council	72,499	0	72,499	72,499	0	0	0	0
New York	472,861,004	304,438,429	168,422,575	84,119,950	44,529,027	30,247,214	637,797	8,888,587
Agriculture and Markets, Department of	12,594,295	2,395,000	10,199,295	10,199,295	0	0	0	0

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
Economic Development, Department of	61,938,660	0	61,938,660	40,035,660	6,500,000	15,403,000	0	0
Energy Research and Development Authority	57,430,498	9,342,472	48,088,026	2,294,921	36,904,518	0	0	8,888,587
Environmental Conservation, Department of	12,057,644	3,740,360	8,317,284	7,654,733	14,000	469,353	179,198	0
Health, Department of	42,057,299	28,078,903	13,978,396	8,666,812	1,067,227	4,219,630	24,727	0
Mental Health, Office of	169,554,913	152,569,872	16,985,041	13,862,166	43,282	3,079,593	0	0
People with Developmental Disabilities, Office of	2,593,058	2,593,058	0	0	0	0	0	0
Power Authority	10,882,017	3,806,379	7,075,638	0	0	7,075,638	0	0
Roswell Park Comprehensive Cancer Center	87,787,967	87,787,967	0	0	0	0	0	0
State Museum	11,605,969	11,094,406	511,563	511,563	0	0	0	0
Thoroughbred Breeding and Development Fund Corporation	421,894	0	421,894	421,894	0	0	0	0
Transportation, Department of	3,936,790	3,030,012	906,778	472,906	0	0	433,872	0
North Carolina	39,656,480	17,211,359	22,445,121	14,761,790	7,135,451	135,780	412,100	0
Agriculture and Consumer Services, Department of	14,714,600	13,214,600	1,500,000	1,300,000	200,000	0	0	0
Biotechnology Center	8,020,782	0	8,020,782	2,905,771	4,890,011	50,000	175,000	0
Environmental Quality, Department of	1,172,150	1,172,150	0	0	0	0	0	0
Natural and Cultural Resources, Department of	2,585,696	2,068,112	517,584	258,999	0	21,485	237,100	0
Science, Technology & Innovation, Office of	2,011,840	0	2,011,840	0	2,011,840	0	0	0
Transportation, Department of	11,019,812	756,497	10,263,315	10,252,020	0	11,295	0	0
Wine and Grape Growers Council	131,600	0	131,600	45,000	33,600	53,000	0	0
North Dakota	39,052,516	1,437,702	37,614,814	20,355,333	13,287,802	290,548	3,681,131	0
Agriculture, Department of	1,276,724	0	1,276,724	0	1,178,565	98,159	0	0
Dry Pea and Lentil Commission	332,940	0	332,940	332,940	0	0	0	0
Game and Fish, Department of	1,197,474	250,000	947,474	885,310	0	62,164	0	0
Historical Society of North Dakota	1,326,254	1,135,584	190,670	0	0	30,225	160,445	0
Industrial Commission	30,205,490	0	30,205,490	14,775,567	12,109,237	0	3,320,686	0
Soybean Council	1,944,108	0	1,944,108	1,944,108	0	0	0	0
Transportation, Department of	1,539,234	52,118	1,487,116	1,287,116	0	0	200,000	0
Wheat Commission	1,230,292	0	1,230,292	1,130,292	0	100,000	0	0
Ohio	73,535,535	3,342,419	70,193,116	26,851,660	42,062,666	1,134,423	144,367	0
Development, Department of	48,789,758	0	48,789,758	8,514,649	40,275,109	0	0	0
Education and Workforce, Department of	305,000	35,000	270,000	270,000	0	0	0	0
Mental Health and Addictions Services, Department of	13,345,000	2,345,000	11,000,000	10,000,000	0	1,000,000	0	0
Natural Resources, Department of	4,044,548	962,419	3,082,129	3,066,929	15,200	0	0	0
Transportation, Department of	6,007,875	0	6,007,875	4,056,728	1,772,357	34,423	144,367	0
Water Development Authority	1,043,354	0	1,043,354	943,354	0	100,000	0	0
Oklahoma	31,173,972	1,157,820	30,016,152	19,173,654	5,703,522	3,144,324	1,994,652	0

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
Advancement of Science and Technology, Center for the	7,911,543	0	7,911,543	2,058,021	5,703,522	150,000	0	0
Agriculture, Food, and Forestry, Department of	804,700	0	804,700	804,700	0	0	0	0
Grand River Dam Authority	410,000	250,000	160,000	160,000	0	0	0	0
Health, Department of	1,275,333	394,051	881,282	881,282	0	0	0	0
Tobacco Settlement Endowment Trust	13,430,000	0	13,430,000	10,550,000	0	2,880,000	0	0
Transportation, Department of	4,725,224	492,768	4,232,456	2,237,804	0	0	1,994,652	0
Wildlife Conservation, Department of	2,617,172	21,001	2,596,171	2,481,847	0	114,324	0	0
Oregon	34,898,696	14,534,155	20,364,541	11,052,350	3,472,762	3,035,196	2,804,233	0
Agriculture, Department of	307,403	0	307,403	269,903	37,500	0	0	0
Business Development Department	12,685,262	0	12,685,262	5,700,000	3,360,262	2,250,000	1,375,000	0
Education, Department of	107,000	107,000	0	0	0	0	0	0
Fish and Wildlife, Department of	15,842,487	12,536,982	3,305,505	2,409,113	0	0	896,392	0
Forestry, Department of	700,000	350,000	350,000	50,000	75,000	75,000	150,000	0
Geology and Mineral Industries, Department of	906,807	906,807	0	0	0	0	0	0
Transportation, Department of	2,677,532	237,892	2,439,640	2,383,640	0	0	56,000	0
Water Resources Department	710,934	384,093	326,841	0	0	0	326,841	0
Watershed Enhancement Board	961,271	11,381	949,890	239,694	0	710,196	0	0
Pennsylvania	95,489,670	15,446,289	80,043,381	45,509,775	879,884	33,645,222	8,500	0
Agriculture, Department of	2,837,000	0	2,837,000	2,597,323	0	239,677	0	0
Community and Economic Development, Department of	25,525,000	0	25,525,000	6,100,000	0	19,425,000	0	0
Conservation and Natural Resources, Department of	691,862	120,000	571,862	146,002	0	425,860	0	0
Environmental Protection, Department of	580,570	41,473	539,097	0	539,097	0	0	0
Fish and Boat Commission	133,434	89,822	43,612	43,612	0	0	0	0
Game Commission	15,488,147	15,018,344	469,803	469,803	0	0	0	0
Health, Department of	48,286,175	0	48,286,175	34,731,490	0	13,554,685	0	0
Susquehanna River Basin Commission	197,000	176,650	20,350	0	11,850	0	8,500	0
Transportation, Department of	1,750,482	0	1,750,482	1,421,545	328,937	0	0	0
Rhode Island	2,668,740	342,028	2,326,712	566,772	1,086,473	580,000	93,467	0
Commerce Corporation	886,473	0	886,473	0	886,473	0	0	0
Fish and Wildlife; Environmental Management, Department of	297,891	0	297,891	297,891	0	0	0	0
Marine Fisheries; Environmental Management, Department of	68,881	0	68,881	68,881	0	0	0	0
Narragansett Bay National Estuarine Research Reserve; Environmental Management, Department of	272,028	272,028	0	0	0	0	0	0
Transportation, Department of	1,050,000	70,000	980,000	200,000	200,000	580,000	0	0
Water Resources Board	93,467	0	93,467	0	0	0	93,467	0
South Carolina	60,272,615	37,802,089	22,470,526	6,300,865	793,300	14,257,246	625,090	494,025

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
Agriculture, Department of	1,371,340	0	1,371,340	1,371,340	0	0	0	0
Disabilities and Special Needs, Department of	14,169,753	0	14,169,753	0	0	14,169,753	0	0
Health and Environmental Control, Department of	1,578,338	1,578,338	0	0	0	0	0	0
Natural Resources, Department of	33,406,763	32,991,106	415,657	350,200	8,300	6,393	50,764	0
Public Service Authority	524,025	0	524,025	30,000	0	0	0	494,025
Research Authority	2,281,886	0	2,281,886	1,496,886	785,000	0	0	0
Sea Grant Consortium	5,249,736	2,922,829	2,326,907	1,955,403	0	81,100	290,404	0
Transportation, Department of	1,690,774	309,816	1,380,958	1,097,036	0	0	283,922	0
South Dakota	5,069,428	319,204	4,750,224	3,413,940	1,039,187	72,097	225,000	0
Corn Utilization Council	72,097	0	72,097	0	0	72,097	0	0
Midwest Dairy Association, South Dakota Division	159,219	0	159,219	159,219	0	0	0	0
Nutrient Research and Education Council	1,110,090	0	1,110,090	1,067,190	42,900	0	0	0
Oilseeds Council	130,003	0	130,003	130,003	0	0	0	0
Pulse Crop Council	34,292	0	34,292	34,292	0	0	0	0
Soybean Research and Promotion Council	833,323	17,314	816,009	591,009	0	0	225,000	0
Transportation, Department of	2,046,079	301,890	1,744,189	747,902	996,287	0	0	0
Weed and Pest Control Commission	47,000	0	47,000	47,000	0	0	0	0
Wheat Commission	637,325	0	637,325	637,325	0	0	0	0
Tennessee	88,292,627	0	88,292,627	16,698,320	69,825,540	1,318,767	450,000	0
Economic and Community Development, Department of	31,582,387	0	31,582,387	5,240,000	25,392,387	500,000	450,000	0
Education, Department of	49,478,612	0	49,478,612	8,732,584	39,927,261	818,767	0	0
Environment and Conservation, Department of	765,089	0	765,089	759,197	5,892	0	0	0
LaunchTN	4,500,000	0	4,500,000	0	4,500,000	0	0	0
Transportation, Department of	1,966,539	0	1,966,539	1,966,539	0	0	0	0
Texas	263,798,186	1,529,174	262,269,012	196,749,730	63,778,677	590,168	1,150,437	0
Agriculture, Department of	741,393	0	741,393	391,426	0	349,967	0	0
Animal Health Commission	16,968	16,968	0	0	0	0	0	0
Cancer Prevention and Research Institute	231,042,658	0	231,042,658	167,614,588	63,428,070	0	0	0
Environmental Quality, Commission on	2,625,587	69,773	2,555,814	2,264,366	291,448	0	0	0
Parks and Wildlife Department	5,793,793	1,442,433	4,351,360	4,106,974	0	240,201	4,185	0
Transportation, Department of	22,375,505	0	22,375,505	21,706,253	0	0	669,252	0
Water Development Board	1,202,282	0	1,202,282	666,123	59,159	0	477,000	0
Utah	11,350,593	8,312,136	3,038,457	1,671,526	868,740	0	498,191	0
Environmental Quality, Department of	1,956,435	537,957	1,418,478	808,901	111,386	0	498,191	0
Natural Resources, Department of	6,467,965	6,467,965	0	0	0	0	0	0
Transportation, Department of	2,926,193	1,306,214	1,619,979	862,625	757,354	0	0	0

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
Vermont	1,724,837	1,298,300	426,537	238,443	188,094	0	0	0
Agriculture, Food, and Markets, Agency of	9,419	0	9,419	0	9,419	0	0	0
Human Services, Agency of	798,646	798,646	0	0	0	0	0	0
Natural Resources, Agency of	26,031	0	26,031	26,031	0	0	0	0
Transportation, Agency of	890,741	499,654	391,087	212,412	178,675	0	0	0
Virginia	57,082,897	19,597,013	37,485,884	24,221,300	10,741,915	269,615	2,253,054	0
Agriculture and Consumer Services, Department of	3,728,575	0	3,728,575	3,728,575	0	0	0	0
Commonwealth Health Research Board	1,608,870	0	1,608,870	1,608,870	0	0	0	0
Education, Department of	1,000,000	750,000	250,000	250,000	0	0	0	0
Energy, Department of	1,664,444	1,592,500	71,944	15,994	0	55,950	0	0
Environmental Quality, Department of	449,060	153,998	295,062	104,118	0	0	190,944	0
Forensic Science, Department of	1,163,967	1,163,967	0	0	0	0	0	0
Forestry, Department of	823,618	823,618	0	0	0	0	0	0
Foundation for Healthy Youth	1,192,122	0	1,192,122	1,192,122	0	0	0	0
Innovation Partnership Authority	16,517,486	2,265,938	14,251,548	4,193,183	10,044,700	13,665	0	0
Marine Resources Commission	1,941,990	279,880	1,662,110	0	0	0	1,662,110	0
Natural History, Museum of	1,112,900	1,112,900	0	0	0	0	0	0
Rail and Public Transportation	525,000	125,000	400,000	0	0	0	400,000	0
Social Services, Department of	1,123,500	1,123,500	0	0	0	0	0	0
Transportation, Department of	20,297,649	9,660,310	10,637,339	10,637,339	0	0	0	0
Veterans Services, Department of	1,562,314	0	1,562,314	1,265,099	297,215	0	0	0
Wildlife Resources, Department of	2,371,402	545,402	1,826,000	1,226,000	400,000	200,000	0	0
Washington	77,892,601	42,774,429	35,118,172	18,928,050	10,747,405	873,863	4,568,854	0
Agriculture, Department of	3,545,097	0	3,545,097	2,382,150	571,176	404,137	187,634	0
Alfalfa Seed Commission	17,000	0	17,000	17,000	0	0	0	0
Asparagus Commission	33,000	0	33,000	0	33,000	0	0	0
Blueberry Commission	231,487	0	231,487	146,116	85,371	0	0	0
Commerce, Department of	7,989,275	0	7,989,275	0	5,324,115	469,726	2,195,434	0
Cranberry Commission	11,000	0	11,000	0	11,000	0	0	0
Ecology, Department of	2,724,112	1,810,625	913,487	913,487	0	0	0	0
Fish and Wildlife, Department of	22,265,674	21,880,775	384,899	0	384,899	0	0	0
Fruit Commission	60,000	0	60,000	60,000	0	0	0	0
Grain Commission	2,135,826	0	2,135,826	2,135,826	0	0	0	0
Health, Department of	1,485,000	1,411,000	74,000	74,000	0	0	0	0
Hop Commission	164,546	0	164,546	123,425	41,121	0	0	0
Integrated Pest Management, Commission on	432,913	0	432,913	432,913	0	0	0	0

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
Labor and Industries, Department of	3,918,652	3,918,652	0	0	0	0	0	0
Mint Commission	40,529	0	40,529	40,529	0	0	0	0
Natural Resources, Department of	16,368,691	11,714,701	4,653,990	1,939,213	1,931,229	0	783,548	0
Oilseeds Commission	118,784	0	118,784	108,334	10,450	0	0	0
Potato Commission	879,508	0	879,508	632,270	68,000	0	179,238	0
Puget Sound Partnership	3,715,000	115,000	3,600,000	1,500,000	900,000	0	1,200,000	0
Pulse Crops Commission	142,290	0	142,290	142,290	0	0	0	0
Red Raspberry Commission	209,188	0	209,188	125,067	61,121	0	23,000	0
Transportation, Department of	5,472,000	1,535,000	3,937,000	3,717,000	220,000	0	0	0
Tree Fruit Research Commission	5,482,677	388,676	5,094,001	3,988,078	1,105,923	0	0	0
Turfgrass Seed Commission	118,269	0	118,269	118,269	0	0	0	0
Wine Commission	332,083	0	332,083	332,083	0	0	0	0
West Virginia	11,946,339	4,775,295	7,171,044	6,403,396	24,000	5,000	738,648	0
Agriculture, Department of	160,000	160,000	0	0	0	0	0	0
Geological and Economic Survey	3,192,295	2,843,833	348,462	348,462	0	0	0	0
Higher Education Policy Commission	4,412,628	29,186	4,383,442	4,354,442	24,000	5,000	0	0
Justice and Community Services, Division of Administrative Services	416,939	416,939	0	0	0	0	0	0
Natural Resources, Division of	1,563,193	1,051,541	511,652	511,652	0	0	0	0
Transportation, Department of	2,201,284	273,796	1,927,488	1,188,840	0	0	738,648	0
Wisconsin	15,612,828	5,361,683	10,251,145	5,014,324	2,385,256	202,139	2,649,426	0
Agriculture, Trade and Consumer Protection, Department of	2,599,764	0	2,599,764	945,284	1,449,692	201,812	2,976	0
Economic Development Corporation	1,500,000	0	1,500,000	1,500,000	0	0	0	0
Natural Resources, Department of	7,355,100	4,990,353	2,364,747	1,541,733	419,725	327	402,962	0
Transportation, Department of	4,157,964	371,330	3,786,634	1,027,307	515,839	0	2,243,488	0
Wyoming	13,781,859	4,232,861	9,548,998	2,798,397	6,502,163	67,626	180,812	0
Agriculture, Department of	657,131	0	657,131	275,806	132,887	67,626	180,812	0
Business Council	1,044,968	0	1,044,968	0	1,044,968	0	0	0
Enhanced Oil Recovery Institute	6,445,631	550,834	5,894,797	596,139	5,298,658	0	0	0
Game and Fish Department	1,323,535	626,122	697,413	671,763	25,650	0	0	0
State Geological Survey	2,946,055	2,946,055	0	0	0	0	0	0
Transportation, Department of	967,025	109,850	857,175	857,175	0	0	0	0
Water Development Office	397,514	0	397,514	397,514	0	0	0	0
Puerto Rico ^h	48,065,120	34,169,608	13,895,512	6,092,033	4,147,021	0	3,656,458	0
Agriculture, Department of	141,550	0	141,550	141,550	0	0	0	0
Economic Development and Commerce, Department of	5,000,000	0	5,000,000	2,500,000	2,500,000	0	0	0
Comprehensive Cancer Center	21,142,003	13,377,000	7,765,003	2,661,524	1,447,021	0	3,656,458	0

Table 20. State agency expenditures for R&D, by state department or agency and performer: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b					
			Total	Higher education institutions	Companies and individuals ^c	Nonprofit organizations ^d	Other governments ^e	All other ^f
Health, Department of	15,788,813	15,788,813	0	0	0	0	0	0
Institute of Statistics	2,113,301	2,113,301	0	0	0	0	0	0
Science, Technology and Research Trust	3,879,453	2,890,494	988,959	788,959	200,000	0	0	0

^a Intramural performers includes a department's or agency's own employees who perform R&D and services performed by others in support of an internal R&D project.

^b Extramural performers refers to those outside the department or agency who perform R&D.

^c Companies and individuals includes individuals under contract for research projects.

^d Nonprofit organizations includes foundations.

^e Other governments includes federal government departments and agencies; other departments or agencies within the state; other state governments; and county, city, special district, or regional local governments.

^f All other extramural performers includes all performers not elsewhere classified.

^g U.S. total reflects all 50 states and the District of Columbia.

^h Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 21. State agency expenditures for R&D, by state department or agency and function of R&D: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
United States ^b	3,344,696,717	188,178,712	503,270,221	615,568,273	1,455,608,217	344,791,030	237,280,264
Alabama	65,159,736	513,012	1,556,686	45,830,380	2,463,376	5,805,616	8,990,666
Commerce, Department of	38,319,907	0	1,000,000	36,319,907	1,000,000	0	0
Conservation and Natural Resources, Department of; Wildlife and Freshwater Fisheries Division	2,735,751	0	0	2,735,751	0	0	0
Economic and Community Affairs, Department of	3,010,094	513,012	168,799	269,894	1,463,376	245,415	349,598
Education, Department of	3,899,855	0	0	0	0	0	3,899,855
Forensic Sciences, Department of	240,688	0	0	0	0	0	240,688
Geological Survey	3,631,424	0	387,887	3,243,537	0	0	0
Marine Environmental Science Consortium, Dauphin Island Sea Lab	3,261,291	0	0	3,261,291	0	0	0
Supercomputer Authority	4,500,525	0	0	0	0	0	4,500,525
Transportation, Department of	5,560,201	0	0	0	0	5,560,201	0
Alaska	18,477,002	178,293	582,223	10,752,476	122,970	6,841,040	0
Energy Authority	82,223	0	82,223	0	0	0	0
Environmental Conservation, Department of	122,970	0	0	0	122,970	0	0
Housing Finance Corporation	500,000	0	500,000	0	0	0	0
Natural Resources, Department of; Division of Geological and Geophysical Surveys	10,732,738	0	0	10,732,738	0	0	0
Railroad Corporation	3,007,378	0	0	0	0	3,007,378	0
Seafood Marketing Institute	178,293	178,293	0	0	0	0	0
Transportation and Public Facilities, Department of	3,853,400	0	0	19,738	0	3,833,662	0
Arizona	17,162,845	1,705,901	0	2,131,091	11,719,582	1,389,618	216,653
Agriculture, Department of	1,847,686	1,705,901	0	141,785	0	0	0
Game and Fish Department	1,989,306	0	0	1,989,306	0	0	0
Health Services, Department of	11,719,582	0	0	0	11,719,582	0	0
Juvenile Corrections, Department of	216,653	0	0	0	0	0	216,653
Transportation, Department of	1,389,618	0	0	0	0	1,389,618	0
Arkansas	13,727,825	7,349,137	0	3,181,923	0	198,644	2,998,121
Corn and Grain Sorghum Promotion Board	1,021,996	1,021,996	0	0	0	0	0
Economic Development Commission	2,998,121	0	0	0	0	0	2,998,121
Game and Fish Commission	3,142,997	0	0	3,142,997	0	0	0
Natural Heritage Commission	38,926	0	0	38,926	0	0	0
Rice Research and Promotion Board	2,927,141	2,927,141	0	0	0	0	0
Soybean Promotion Board	3,400,000	3,400,000	0	0	0	0	0
Transportation, Department of	198,644	0	0	0	0	198,644	0
California	800,971,651	12,177,438	295,872,603	70,943,128	359,744,919	53,967,136	8,266,427
Air Resources Board	19,974,359	0	0	19,974,359	0	0	0
Conservation, Department of	3,136,065	0	0	2,285,108	0	0	850,957
Corrections and Rehabilitation, Department of	2,226,717	0	0	0	0	0	2,226,717
Covered California	10,906,729	0	0	0	10,906,729	0	0

Table 21. State agency expenditures for R&D, by state department or agency and function of R&D: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
Dairy Council	100,000	0	0	0	100,000	0	0
Delta Stewardship Council	4,842,068	0	0	4,842,068	0	0	0
Earthquake Authority	75,000	0	0	0	0	0	75,000
Emergency Services Governor's Office	1,708,673	0	0	0	0	95,270	1,613,403
Energy Commission	246,371,838	0	246,371,838	0	0	0	0
Environmental Health Hazard Assessment, Office of	21,350,349	0	0	0	21,350,349	0	0
First 5 California	6,000,000	0	0	0	3,000,000	0	3,000,000
Food and Agriculture, Department of	6,164,999	6,164,999	0	0	0	0	0
Forestry and Fire Protection, Department of	14,178,000	0	0	14,178,000	0	0	0
Horse Racing Board	1,064,589	1,064,589	0	0	0	0	0
Housing and Community Development, Department of	500,350	0	0	0	0	0	500,350
Institute for Regenerative Medicine	297,497,898	0	0	0	297,497,898	0	0
Motor Vehicles, Department of	2,391,913	0	0	0	2,391,913	0	0
Parks and Recreation, Department of	3,297,352	0	0	3,297,352	0	0	0
Pesticide Regulation, Department of	21,928,190	4,947,850	0	3,427,763	13,552,577	0	0
Public Health, Department of	9,028,453	0	0	0	9,028,453	0	0
Public Utilities Commission, Executive Division	49,500,765	0	49,500,765	0	0	0	0
Resources Recycling and Recovery, Department of	258,397	0	0	258,397	0	0	0
San Diego River Conservancy	1,016,645	0	0	1,016,645	0	0	0
State Coastal Conservancy	850,449	0	0	850,449	0	0	0
State Water Resources Control Board	10,772,717	0	0	8,855,717	1,917,000	0	0
Toxic Substances Control, Department of	249,832	0	0	249,832	0	0	0
Transportation, Department of	53,871,866	0	0	0	0	53,871,866	0
Water Resources, Department of	11,707,438	0	0	11,707,438	0	0	0
Colorado	42,146,785	975,693	2,903,750	11,926,882	6,870,833	5,129,531	14,340,096
Agriculture, Department of	301,916	0	0	0	301,916	0	0
Economic Development and International Trade, Office of	21,935,844	310,000	2,903,750	634,968	5,462,275	0	12,624,851
Higher Education Competitive Research Authority	2,622,484	301,540	0	0	400,000	275,000	1,645,944
Natural Resources, Department of	7,222,995	0	0	7,168,694	0	5,000	49,301
Public Health and Environment, Department of	4,829,862	0	0	4,123,220	706,642	0	0
Transportation, Department of	4,849,531	0	0	0	0	4,849,531	0
Wine Industry Development Board	384,153	364,153	0	0	0	0	20,000
Connecticut	59,935,851	4,887,351	5,700,000	12,644,615	20,465,360	3,566,574	12,671,951
Agricultural Experiment Station	15,285,122	4,887,351	0	5,132,899	5,264,872	0	0
Energy and Environmental Protection, Department of	7,420,806	0	0	7,420,806	0	0	0
Innovation Inc.	26,085,650	0	5,700,000	0	8,405,287	0	11,980,363
Mental Health and Addiction Services, Department of	6,795,201	0	0	0	6,795,201	0	0
Social Services, Department of	691,588	0	0	0	0	0	691,588

Table 21. State agency expenditures for R&D, by state department or agency and function of R&D: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
Transportation, Department of	3,657,484	0	0	90,910	0	3,566,574	0
Delaware	3,706,676	0	0	2,281,072	0	1,425,604	0
Geological Survey	1,756,651	0	0	1,744,959	0	11,692	0
Natural Resources and Environmental Control, Department of	536,113	0	0	536,113	0	0	0
Transportation, Department of	1,413,912	0	0	0	0	1,413,912	0
District of Columbia	8,243,133	0	0	1,850,270	5,492,578	496,322	403,963
Energy and Environment, Department of	350,270	0	0	350,270	0	0	0
Health, Department of	5,492,578	0	0	0	5,492,578	0	0
Transportation, Department of	900,285	0	0	0	0	496,322	403,963
Water and Sewer Authority	1,500,000	0	0	1,500,000	0	0	0
Florida	326,433,033	45,123,731	179,287	83,757,827	182,599,063	14,773,125	0
Agriculture and Consumer Services, Department of	54,507,248	42,378,711	179,287	11,379,073	570,177	0	0
Citrus, Department of	3,049,833	2,745,020	0	0	304,813	0	0
Fish and Wildlife Conservation Commission	72,378,754	0	0	72,378,754	0	0	0
Health, Department of	181,724,073	0	0	0	181,724,073	0	0
Space Florida	1,235,000	0	0	0	0	1,235,000	0
Transportation, Department of	13,538,125	0	0	0	0	13,538,125	0
Georgia	28,195,324	2,864,387	13,101,035	3,154,472	0	9,075,430	0
Commodity Commission, Agriculture, Department of	2,864,387	2,864,387	0	0	0	0	0
Natural Resources, Department of	2,390,690	0	0	2,390,690	0	0	0
Southern States Energy Board	13,864,817	0	13,101,035	763,782	0	0	0
Transportation, Department of	9,075,430	0	0	0	0	9,075,430	0
Hawaii	6,358,304	929,873	673,600	1,017,703	108,900	2,937,628	690,600
Agriculture, Department of	748,473	678,473	35,000	35,000	0	0	0
Business, Economic Development, and Tourism, Department of	1,752,000	251,400	638,600	62,500	108,900	0	690,600
Land and Natural Resources, Department of	920,203	0	0	920,203	0	0	0
Transportation, Department of	2,937,628	0	0	0	0	2,937,628	0
Idaho	14,897,781	6,201,382	0	6,062,574	0	2,633,825	0
Agriculture, Department of	844,061	844,061	0	0	0	0	0
Barley Commission	293,740	293,740	0	0	0	0	0
Bean Commission	36,218	36,218	0	0	0	0	0
Dairy West	3,090,000	3,090,000	0	0	0	0	0
Fish and Game, Department of	6,062,574	0	0	6,062,574	0	0	0
Mint Commission	85,171	85,171	0	0	0	0	0
Oilseed Commission	68,064	68,064	0	0	0	0	0
Pea and Lentil Commission	68,766	68,766	0	0	0	0	0
Potato Commission	695,006	695,006	0	0	0	0	0
Transportation Department	2,633,825	0	0	0	0	2,633,825	0

Table 21. State agency expenditures for R&D, by state department or agency and function of R&D: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
Wheat Commission	1,020,356	1,020,356	0	0	0	0	0
Illinois	17,571,750	0	0	4,623,526	454,000	9,744,978	2,749,246
Children and Family Services, Department of	2,749,246	0	0	0	0	0	2,749,246
Nature Preserves Commission	500,000	0	0	500,000	0	0	0
Nutrient Research and Education Council	4,123,526	0	0	4,123,526	0	0	0
Public Health, Department of	454,000	0	0	0	454,000	0	0
Transportation, Department of	9,744,978	0	0	0	0	9,744,978	0
Indiana	32,777,869	400,000	548,358	2,815,311	0	24,294,542	4,719,658
Economic Development Corporation	7,300,000	0	548,358	0	0	2,031,984	4,719,658
Natural Resources, Department of	3,215,311	400,000	0	2,815,311	0	0	0
Transportation, Department of	22,262,558	0	0	0	0	22,262,558	0
Iowa	14,471,132	492,187	0	4,471,907	0	9,132,038	375,000
Beef Council	438,439	438,439	0	0	0	0	0
Management, Department of Data; Division of Planning and Improvement	375,000	0	0	0	0	0	375,000
Midwest Dairy Association, Iowa Division	53,748	53,748	0	0	0	0	0
Natural Resources, Department of	4,471,907	0	0	4,471,907	0	0	0
Transportation, Department of	9,132,038	0	0	0	0	9,132,038	0
Kansas	12,652,250	3,879,038	234,164	3,907,840	0	3,630,258	1,000,950
Corn Commission	365,705	158,078	99,632	107,995	0	0	0
Grain Sorghum Commission	1,245,590	1,245,590	0	0	0	0	0
Soybean Commission	1,091,882	937,350	134,532	20,000	0	0	0
State Board of Regents	1,000,950	0	0	0	0	0	1,000,950
Sunflower Commission	12,862	12,862	0	0	0	0	0
Transportation, Department of	3,630,258	0	0	0	0	3,630,258	0
Water Office	1,769,184	170,000	0	1,599,184	0	0	0
Wheat Commission	1,355,158	1,355,158	0	0	0	0	0
Wildlife and Parks, Department of	2,180,661	0	0	2,180,661	0	0	0
Kentucky	31,186,521	626,035	360,605	9,036,158	9,479,065	9,991,432	1,693,226
Economic Development, Cabinet for	3,577,283	195,816	360,605	142,396	1,185,240	0	1,693,226
Fish and Wildlife Resources, Department of	8,872,995	0	0	8,872,995	0	0	0
Nature Preserves, Office of Kentucky	20,767	0	0	20,767	0	0	0
Public Health, Department for	8,293,825	0	0	0	8,293,825	0	0
Soybean Promotion Board	430,219	430,219	0	0	0	0	0
Transportation Cabinet	9,991,432	0	0	0	0	9,991,432	0
Louisiana	45,656,537	524,409	851,261	26,537,429	968,435	54,281	16,720,722
Board of Regents	11,486,002	524,409	851,261	622,748	968,435	54,281	8,464,868
Coastal Protection and Restoration Authority	3,981,014	0	0	3,981,014	0	0	0
Transportation and Development, Department of	8,255,854	0	0	0	0	0	8,255,854

Table 21. State agency expenditures for R&D, by state department or agency and function of R&D: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
Wildlife and Fisheries, Department of	21,933,667	0	0	21,933,667	0	0	0
Maine	41,400,506	10,174,122	0	5,534,422	14,374,011	1,854,258	9,463,693
Agriculture, Conservation and Forestry, Department of	1,766,203	83,167	0	1,683,036	0	0	0
Aquaculture Innovation Center	511,217	511,217	0	0	0	0	0
Inland Fisheries and Wildlife, Department of	2,000,000	0	0	2,000,000	0	0	0
Marine Resources, Department of	1,170,818	0	0	1,170,818	0	0	0
MDI Biological Laboratory, Center for Biomedical Innovation	11,668,074	0	0	161,563	11,506,511	0	0
Technology Institute	22,429,936	9,579,738	0	519,005	2,867,500	0	9,463,693
Transportation, Department of	1,854,258	0	0	0	0	1,854,258	0
Maryland	41,003,629	0	1,000,000	157,000	37,278,524	2,568,105	0
Energy Administration	1,000,000	0	1,000,000	0	0	0	0
Environment, Department of	70,000	0	0	70,000	0	0	0
Health, Department of	15,000,000	0	0	0	15,000,000	0	0
Natural Resources, Department of	87,000	0	0	87,000	0	0	0
Technology Development Corporation	22,278,524	0	0	0	22,278,524	0	0
Transportation, Department of	2,568,105	0	0	0	0	2,568,105	0
Massachusetts	58,755,361	0	33,754,301	3,001,382	7,258,818	8,177,210	6,563,650
Clean Energy Technology Center	33,961,301	0	33,709,301	0	0	0	252,000
Environmental Protection, Department of	2,125,890	0	0	2,125,890	0	0	0
Fish and Game, Department of	280,312	0	0	280,312	0	0	0
Gaming Commission	1,359,461	0	0	0	1,340,711	0	18,750
MassVentures	195,000	0	45,000	0	150,000	0	0
Mental Health, Department of	2,971,914	0	0	0	2,971,914	0	0
Public Health, Department of	2,346,693	0	0	0	2,346,693	0	0
Technology Park Corporation	6,687,580	0	0	245,180	149,500	0	6,292,900
Transportation, Department of	8,177,210	0	0	0	0	8,177,210	0
Water Resources Authority	650,000	0	0	350,000	300,000	0	0
Michigan	16,827,281	3,966,998	404,961	909,155	1,852,096	7,744,071	1,950,000
Agriculture and Rural Development, Department of	3,785,298	3,416,998	0	368,300	0	0	0
Economic Development Corporation	4,500,000	550,000	0	0	1,000,000	1,000,000	1,950,000
Environmental, Great Lakes, and Energy, Department of	1,374,488	0	404,961	540,855	0	428,672	0
Health and Human Services, Department of	852,096	0	0	0	852,096	0	0
Transportation, Department of	6,315,399	0	0	0	0	6,315,399	0
Minnesota	28,917,361	4,660,793	0	6,233,155	0	16,990,060	1,033,353
Agriculture, Department of	7,141,691	4,368,543	0	2,773,148	0	0	0
Employment and Economic Development, Department of	100,000	0	0	0	0	0	100,000
Forest Resources Council	167,362	0	0	167,362	0	0	0
Labor and Industry, Department of	933,353	0	0	0	0	0	933,353

Table 21. State agency expenditures for R&D, by state department or agency and function of R&D: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
Midwest Dairy Association, Minnesota Division	292,250	292,250	0	0	0	0	0
Natural Resources, Department of	1,828,394	0	0	1,828,394	0	0	0
Pollution Control Agency	40,889	0	0	40,889	0	0	0
Transportation, Department of	18,413,422	0	0	1,423,362	0	16,990,060	0
Mississippi	12,365,286	270,332	0	8,889,870	0	3,205,084	0
Agriculture and Commerce, Department of	270,332	270,332	0	0	0	0	0
Environmental Quality, Department of	902,684	0	0	902,684	0	0	0
Gulf States Marine Fisheries Commission	1,430,001	0	0	1,430,001	0	0	0
Marine Resources, Department of	4,833,162	0	0	4,833,162	0	0	0
Transportation, Department of	3,205,084	0	0	0	0	3,205,084	0
Wildlife, Fisheries, and Parks, Department of	1,724,023	0	0	1,724,023	0	0	0
Missouri	17,580,231	2,040,575	1,979,775	7,637,047	1,893,865	4,028,969	0
Agriculture, Department of	984,588	940,535	0	44,053	0	0	0
Conservation, Department of	6,743,448	0	0	6,743,448	0	0	0
Mental Health, Department of	485,000	0	0	0	485,000	0	0
Midwest Dairy Association, Missouri Division	50,877	50,877	0	0	0	0	0
Natural Resources, Department of	849,546	0	0	849,546	0	0	0
Technology Corporation	3,538,639	149,999	1,979,775	0	1,408,865	0	0
Transportation, Department of	4,028,969	0	0	0	0	4,028,969	0
Wine and Grape Board	899,164	899,164	0	0	0	0	0
Montana	14,667,731	5,587,028	0	7,102,438	0	1,978,265	0
Agriculture, Department of	5,587,028	5,587,028	0	0	0	0	0
Environmental Quality, Department of	206,364	0	0	206,364	0	0	0
Fish, Wildlife and Parks, Department of	6,887,404	0	0	6,887,404	0	0	0
Natural Resources and Conservation, Department of	8,670	0	0	8,670	0	0	0
Transportation, Department of	1,978,265	0	0	0	0	1,978,265	0
Nebraska	31,562,589	3,558,668	218,017	3,232,300	19,898,274	1,788,598	2,866,732
Agriculture, Department of	949,078	949,078	0	0	0	0	0
Corn Board	786,777	590,082	118,017	0	0	78,678	0
Dry Bean Commission	154,550	154,550	0	0	0	0	0
Economic Development, Department of	4,867,332	983,400	100,000	0	917,200	0	2,866,732
Game and Parks Commission	3,146,687	0	0	3,146,687	0	0	0
Grain Sorghum Board	3,000	3,000	0	0	0	0	0
Health and Human Services, Department of	18,981,074	0	0	0	18,981,074	0	0
Natural Resources, Department of	50,000	0	0	50,000	0	0	0
Pea And Lentil Commission	34,292	34,292	0	0	0	0	0
Transportation, Department of	1,745,533	0	0	35,613	0	1,709,920	0
Wheat Board	844,266	844,266	0	0	0	0	0

Table 21. State agency expenditures for R&D, by state department or agency and function of R&D: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
Nevada	6,811,110	403,079	0	3,285,206	0	1,317,935	1,804,890
Agriculture, Department of	203,079	203,079	0	0	0	0	0
Conservation and Natural Resources, Department of	2,916,818	200,000	0	2,716,818	0	0	0
Economic Development, Governor's office of	2,164,225	0	0	359,335	0	0	1,804,890
Transportation, Department of	1,526,988	0	0	209,053	0	1,317,935	0
New Hampshire	1,257,547	146,922	10,000	149,472	0	871,739	79,414
Agriculture, Markets and Food, Department of	156,922	146,922	10,000	0	0	0	0
Transportation, Department of	1,100,625	0	0	149,472	0	871,739	79,414
New Jersey	114,110,735	0	0	7,671,387	91,773,563	5,097,040	9,568,745
Children and Families, Department of	1,377,857	0	0	0	0	0	1,377,857
Corrections, Department of	544,202	0	0	0	0	0	544,202
Environmental Protection, Department of	8,270,381	0	0	6,888,568	1,381,813	0	0
Health, Department of	90,391,750	0	0	0	90,391,750	0	0
Pinelands Commission	782,819	0	0	782,819	0	0	0
Secretary of Higher Education, Office of	7,500,000	0	0	0	0	0	7,500,000
State Parole Board	146,686	0	0	0	0	0	146,686
Transportation, Department of	5,097,040	0	0	0	0	5,097,040	0
New Mexico	3,543,922	0	0	1,357,029	0	2,106,925	79,968
Game and Fish, Department of	1,129,000	0	0	1,129,000	0	0	0
Transportation, Department of	2,342,423	0	0	155,530	0	2,106,925	79,968
Western State Air Resources Council	72,499	0	0	72,499	0	0	0
New York	472,861,004	13,447,691	66,848,863	35,047,412	306,404,664	4,480,681	46,631,693
Agriculture and Markets, Department of	12,594,295	11,454,999	0	1,139,296	0	0	0
Economic Development, Department of	61,938,660	1,250,000	4,000,000	4,000,000	6,125,000	0	46,563,660
Energy Research and Development Authority	57,430,498	0	53,505,301	3,845,673	0	79,524	0
Environmental Conservation, Department of	12,057,644	0	0	12,057,644	0	0	0
Health, Department of	42,057,299	244,558	0	1,467,348	40,345,393	0	0
Mental Health, Office of	169,554,913	0	0	0	169,554,913	0	0
People with Developmental Disabilities, Office of	2,593,058	0	0	0	2,543,058	0	50,000
Power Authority	10,882,017	76,240	9,343,562	931,482	48,333	464,367	18,033
Roswell Park Comprehensive Cancer Center	87,787,967	0	0	0	87,787,967	0	0
State Museum	11,605,969	0	0	11,605,969	0	0	0
Thoroughbred Breeding and Development Fund Corporation	421,894	421,894	0	0	0	0	0
Transportation, Department of	3,936,790	0	0	0	0	3,936,790	0
North Carolina	39,656,480	13,906,200	1,740,000	4,718,145	8,180,782	10,169,513	941,840
Agriculture and Consumer Services, Department of	14,714,600	13,214,600	1,500,000	0	0	0	0
Biotechnology Center	8,020,782	500,000	0	0	7,520,782	0	0
Environmental Quality, Department of	1,172,150	0	0	1,172,150	0	0	0

Table 21. State agency expenditures for R&D, by state department or agency and function of R&D: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
Natural and Cultural Resources, Department of	2,585,696	0	0	2,585,696	0	0	0
Science, Technology & Innovation, Office of	2,011,840	60,000	240,000	110,000	660,000	0	941,840
Transportation, Department of	11,019,812	0	0	850,299	0	10,169,513	0
Wine and Grape Growers Council	131,600	131,600	0	0	0	0	0
North Dakota	39,052,516	3,869,805	30,205,490	1,197,474	914,259	1,539,234	1,326,254
Agriculture, Department of	1,276,724	362,465	0	0	914,259	0	0
Dry Pea and Lentil Commission	332,940	332,940	0	0	0	0	0
Game and Fish, Department of	1,197,474	0	0	1,197,474	0	0	0
Historical Society of North Dakota	1,326,254	0	0	0	0	0	1,326,254
Industrial Commission	30,205,490	0	30,205,490	0	0	0	0
Soybean Council	1,944,108	1,944,108	0	0	0	0	0
Transportation, Department of	1,539,234	0	0	0	0	1,539,234	0
Wheat Commission	1,230,292	1,230,292	0	0	0	0	0
Ohio	73,535,535	0	5,975,652	46,317,006	13,345,000	6,007,875	1,890,002
Development, Department of	48,789,758	0	5,917,888	41,286,868	0	0	1,585,002
Education and Workforce, Department of	305,000	0	0	0	0	0	305,000
Mental Health and Addictions Services, Department of	13,345,000	0	0	0	13,345,000	0	0
Natural Resources, Department of	4,044,548	0	57,764	3,986,784	0	0	0
Transportation, Department of	6,007,875	0	0	0	0	6,007,875	0
Water Development Authority	1,043,354	0	0	1,043,354	0	0	0
Oklahoma	31,173,972	1,573,195	2,045,141	3,801,498	17,873,894	5,015,636	864,608
Advancement of Science and Technology, Center for the	7,911,543	768,495	2,045,141	774,326	3,168,561	290,412	864,608
Agriculture, Food, and Forestry, Department of	804,700	804,700	0	0	0	0	0
Grand River Dam Authority	410,000	0	0	410,000	0	0	0
Health, Department of	1,275,333	0	0	0	1,275,333	0	0
Tobacco Settlement Endowment Trust	13,430,000	0	0	0	13,430,000	0	0
Transportation, Department of	4,725,224	0	0	0	0	4,725,224	0
Wildlife Conservation, Department of	2,617,172	0	0	2,617,172	0	0	0
Oregon	34,898,696	599,070	3,516,670	20,121,499	5,501,925	3,802,532	1,357,000
Agriculture, Department of	307,403	307,403	0	0	0	0	0
Business Development Department	12,685,262	291,667	3,516,670	1,000,000	5,501,925	1,125,000	1,250,000
Education, Department of	107,000	0	0	0	0	0	107,000
Fish and Wildlife, Department of	15,842,487	0	0	15,842,487	0	0	0
Forestry, Department of	700,000	0	0	700,000	0	0	0
Geology and Mineral Industries, Department of	906,807	0	0	906,807	0	0	0
Transportation, Department of	2,677,532	0	0	0	0	2,677,532	0
Water Resources Department	710,934	0	0	710,934	0	0	0
Watershed Enhancement Board	961,271	0	0	961,271	0	0	0

Table 21. State agency expenditures for R&D, by state department or agency and function of R&D: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
Pennsylvania	95,489,670	5,580,750	2,461,597	18,974,193	56,496,720	4,086,264	7,890,146
Agriculture, Department of	2,837,000	2,837,000	0	0	0	0	0
Community and Economic Development, Department of	25,525,000	2,743,750	1,922,500	2,463,750	8,169,072	2,335,782	7,890,146
Conservation and Natural Resources, Department of	691,862	0	0	691,862	0	0	0
Environmental Protection, Department of	580,570	0	539,097	0	41,473	0	0
Fish and Boat Commission	133,434	0	0	133,434	0	0	0
Game Commission	15,488,147	0	0	15,488,147	0	0	0
Health, Department of	48,286,175	0	0	0	48,286,175	0	0
Susquehanna River Basin Commission	197,000	0	0	197,000	0	0	0
Transportation, Department of	1,750,482	0	0	0	0	1,750,482	0
Rhode Island	2,668,740	0	0	732,267	449,876	1,050,000	436,597
Commerce Corporation	886,473	0	0	0	449,876	0	436,597
Fish and Wildlife; Environmental Management, Department of	297,891	0	0	297,891	0	0	0
Marine Fisheries; Environmental Management, Department of	68,881	0	0	68,881	0	0	0
Narragansett Bay National Estuarine Research Reserve; Environmental Management, Department of	272,028	0	0	272,028	0	0	0
Transportation, Department of	1,050,000	0	0	0	0	1,050,000	0
Water Resources Board	93,467	0	0	93,467	0	0	0
South Carolina	60,272,615	3,866,729	740,763	36,481,183	16,496,376	2,046,024	641,540
Agriculture, Department of	1,371,340	1,371,340	0	0	0	0	0
Disabilities and Special Needs, Department of	14,169,753	0	0	0	14,169,753	0	0
Health and Environmental Control, Department of	1,578,338	663,932	0	0	914,406	0	0
Natural Resources, Department of	33,406,763	0	0	33,406,763	0	0	0
Public Service Authority	524,025	0	436,915	46,839	0	40,271	0
Research Authority	2,281,886	25,000	303,848	45,000	1,412,217	314,979	180,842
Sea Grant Consortium	5,249,736	1,806,457	0	2,982,581	0	0	460,698
Transportation, Department of	1,690,774	0	0	0	0	1,690,774	0
South Dakota	5,069,428	2,951,252	22,097	0	0	2,046,079	50,000
Corn Utilization Council	72,097	0	22,097	0	0	0	50,000
Midwest Dairy Association, South Dakota Division	159,219	159,219	0	0	0	0	0
Nutrient Research and Education Council	1,110,090	1,110,090	0	0	0	0	0
Oilseeds Council	130,003	130,003	0	0	0	0	0
Pulse Crop Council	34,292	34,292	0	0	0	0	0
Soybean Research and Promotion Council	833,323	833,323	0	0	0	0	0
Transportation, Department of	2,046,079	0	0	0	0	2,046,079	0
Weed and Pest Control Commission	47,000	47,000	0	0	0	0	0
Wheat Commission	637,325	637,325	0	0	0	0	0
Tennessee	88,292,627	200,000	9,001,487	759,197	9,495,595	18,157,736	50,678,612
Economic and Community Development, Department of	31,582,387	0	7,895,595	0	7,895,595	15,791,197	0

Table 21. State agency expenditures for R&D, by state department or agency and function of R&D: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
Education, Department of	49,478,612	0	0	0	0	0	49,478,612
Environment and Conservation, Department of	765,089	0	5,892	759,197	0	0	0
LaunchTN	4,500,000	200,000	1,100,000	0	1,600,000	400,000	1,200,000
Transportation, Department of	1,966,539	0	0	0	0	1,966,539	0
Texas	263,798,186	758,361	0	9,621,662	231,042,658	22,375,505	0
Agriculture, Department of	741,393	741,393	0	0	0	0	0
Animal Health Commission	16,968	16,968	0	0	0	0	0
Cancer Prevention and Research Institute	231,042,658	0	0	0	231,042,658	0	0
Environmental Quality, Commission on	2,625,587	0	0	2,625,587	0	0	0
Parks and Wildlife Department	5,793,793	0	0	5,793,793	0	0	0
Transportation, Department of	22,375,505	0	0	0	0	22,375,505	0
Water Development Board	1,202,282	0	0	1,202,282	0	0	0
Utah	11,350,593	0	0	8,424,400	0	2,926,193	0
Environmental Quality, Department of	1,956,435	0	0	1,956,435	0	0	0
Natural Resources, Department of	6,467,965	0	0	6,467,965	0	0	0
Transportation, Department of	2,926,193	0	0	0	0	2,926,193	0
Vermont	1,724,837	0	0	35,450	798,646	890,741	0
Agriculture, Food, and Markets, Agency of	9,419	0	0	9,419	0	0	0
Human Services, Agency of	798,646	0	0	0	798,646	0	0
Natural Resources, Agency of	26,031	0	0	26,031	0	0	0
Transportation, Agency of	890,741	0	0	0	0	890,741	0
Virginia	57,082,897	4,378,183	937,176	9,478,187	9,398,622	24,182,863	8,707,866
Agriculture and Consumer Services, Department of	3,728,575	3,728,575	0	0	0	0	0
Commonwealth Health Research Board	1,608,870	0	0	0	1,608,870	0	0
Education, Department of	1,000,000	0	0	0	0	0	1,000,000
Energy, Department of	1,664,444	0	189,088	1,461,203	0	0	14,153
Environmental Quality, Department of	449,060	0	0	449,060	0	0	0
Forensic Science, Department of	1,163,967	0	0	0	0	0	1,163,967
Forestry, Department of	823,618	0	0	823,618	0	0	0
Foundation for Healthy Youth	1,192,122	0	0	0	1,192,122	0	0
Innovation Partnership Authority	16,517,486	306,876	676,088	2,553,746	4,435,316	3,139,214	5,406,246
Marine Resources Commission	1,941,990	0	0	1,941,990	0	0	0
Natural History, Museum of	1,112,900	0	0	1,112,900	0	0	0
Rail and Public Transportation	525,000	0	0	0	0	525,000	0
Social Services, Department of	1,123,500	0	0	0	0	0	1,123,500
Transportation, Department of	20,297,649	0	0	0	0	20,297,649	0
Veterans Services, Department of	1,562,314	0	0	0	1,562,314	0	0
Wildlife Resources, Department of	2,371,402	342,732	72,000	1,135,670	600,000	221,000	0

Table 21. State agency expenditures for R&D, by state department or agency and function of R&D: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
Washington	77,892,601	13,894,197	8,702,876	44,359,876	1,545,000	5,472,000	3,918,652
Agriculture, Department of	3,545,097	3,545,097	0	0	0	0	0
Alfalfa Seed Commission	17,000	17,000	0	0	0	0	0
Asparagus Commission	33,000	33,000	0	0	0	0	0
Blueberry Commission	231,487	231,487	0	0	0	0	0
Commerce, Department of	7,989,275	0	7,989,275	0	0	0	0
Cranberry Commission	11,000	11,000	0	0	0	0	0
Ecology, Department of	2,724,112	0	0	2,724,112	0	0	0
Fish and Wildlife, Department of	22,265,674	0	0	22,265,674	0	0	0
Fruit Commission	60,000	0	0	0	60,000	0	0
Grain Commission	2,135,826	2,135,826	0	0	0	0	0
Health, Department of	1,485,000	0	0	0	1,485,000	0	0
Hop Commission	164,546	164,546	0	0	0	0	0
Integrated Pest Management, Commission on	432,913	432,913	0	0	0	0	0
Labor and Industries, Department of	3,918,652	0	0	0	0	0	3,918,652
Mint Commission	40,529	40,529	0	0	0	0	0
Natural Resources, Department of	16,368,691	0	713,601	15,655,090	0	0	0
Oilseeds Commission	118,784	118,784	0	0	0	0	0
Potato Commission	879,508	879,508	0	0	0	0	0
Puget Sound Partnership	3,715,000	0	0	3,715,000	0	0	0
Pulse Crops Commission	142,290	142,290	0	0	0	0	0
Red Raspberry Commission	209,188	209,188	0	0	0	0	0
Transportation, Department of	5,472,000	0	0	0	0	5,472,000	0
Tree Fruit Research Commission	5,482,677	5,482,677	0	0	0	0	0
Turfgrass Seed Commission	118,269	118,269	0	0	0	0	0
Wine Commission	332,083	332,083	0	0	0	0	0
West Virginia	11,946,339	160,000	3,223,124	2,588,233	2,575,968	2,201,284	1,197,730
Agriculture, Department of	160,000	160,000	0	0	0	0	0
Geological and Economic Survey	3,192,295	0	2,307,812	884,483	0	0	0
Higher Education Policy Commission	4,412,628	0	915,312	140,557	2,575,968	0	780,791
Justice and Community Services, Division of Administrative Services	416,939	0	0	0	0	0	416,939
Natural Resources, Division of	1,563,193	0	0	1,563,193	0	0	0
Transportation, Department of	2,201,284	0	0	0	0	2,201,284	0
Wisconsin	15,612,828	2,599,764	0	7,355,100	0	4,157,964	1,500,000
Agriculture, Trade and Consumer Protection, Department of	2,599,764	2,599,764	0	0	0	0	0
Economic Development Corporation	1,500,000	0	0	0	0	0	1,500,000
Natural Resources, Department of	7,355,100	0	0	7,355,100	0	0	0
Transportation, Department of	4,157,964	0	0	0	0	4,157,964	0

Table 21. State agency expenditures for R&D, by state department or agency and function of R&D: FY 2024

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other R&D functions ^a
Wyoming	13,781,859	757,131	7,918,659	3,469,044	270,000	1,367,025	0
Agriculture, Department of	657,131	657,131	0	0	0	0	0
Business Council	1,044,968	100,000	0	274,968	270,000	400,000	0
Enhanced Oil Recovery Institute	6,445,631	0	6,445,631	0	0	0	0
Game and Fish Department	1,323,535	0	0	1,323,535	0	0	0
State Geological Survey	2,946,055	0	1,473,028	1,473,027	0	0	0
Transportation, Department of	967,025	0	0	0	0	967,025	0
Water Development Office	397,514	0	0	397,514	0	0	0
Puerto Rico ^c	48,065,120	141,550	0	354,553	40,644,457	45,784	6,878,776
Agriculture, Department of	141,550	141,550	0	0	0	0	0
Economic Development and Commerce, Department of	5,000,000	0	0	0	0	0	5,000,000
Comprehensive Cancer Center	21,142,003	0	0	0	21,142,003	0	0
Health, Department of	15,788,813	0	0	0	15,788,813	0	0
Institute of Statistics	2,113,301	0	0	0	335,467	45,784	1,732,050
Science, Technology and Research Trust	3,879,453	0	0	354,553	3,378,174	0	146,726

^a Other R&D functions includes but is not limited to corrections, criminal justice, education, forensic science, labor, public safety, and social services functions.

^b U.S. total reflects all 50 states and the District of Columbia.

^c Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 22. State government R&D intramural personnel, by state, headcount, and full-time equivalent: FY 2024

(Number)

State	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers ^a	Technicians	Support staff	Total	Researchers ^a	Technicians	Support staff
United States ^b	10,063	5,623	3,094	1,346	6,491.3	3,789.8	1,804.3	897.2
Alabama	121	56	42	23	92.5	49.3	25.1	18.1
Alaska	93	54	26	13	76.0	50.9	16.9	8.2
Arizona	47	29	10	8	40.1	22.6	10.0	7.5
Arkansas	133	80	30	23	59.3	30.0	17.3	12.0
California	738	609	26	103	574.1	480.6	8.4	85.1
Colorado	93	65	26	2	66.0	54.5	10.2	1.3
Connecticut	292	199	39	54	182.8	130.1	37.0	15.7
Delaware	19	13	2	4	19.0	13.0	2.0	4.0
District of Columbia	30	15	9	6	17.1	8.5	6.1	2.5
Florida	926	727	65	134	791.8	627.0	45.2	119.6
Georgia	9	6	1	2	7.8	5.1	1.0	1.7
Hawaii	10	3	1	6	4.7	1.3	0.2	3.2
Idaho	108	53	44	11	35.0	16.9	13.4	4.7
Illinois	5	2	1	2	3.4	1.8	0.8	0.8
Indiana	123	56	49	18	32.0	21.2	8.9	1.9
Iowa	36	21	13	2	17.7	11.0	6.2	0.5
Kansas	181	82	81	18	36.6	22.3	9.1	5.2
Kentucky	279	155	117	7	18.3	13.4	4.5	0.4
Louisiana	308	164	85	59	54.5	31.5	18.0	5.0
Maine	150	104	35	11	77.5	37.7	30.1	9.7
Maryland	20	2	11	7	12.9	0.0	7.9	5.0
Massachusetts	46	24	18	4	15.6	10.9	3.7	1.0
Michigan	3	2	0	1	1.7	1.5	0.0	0.2
Minnesota	113	64	27	22	52.8	24.6	14.1	14.1
Mississippi	30	21	5	4	23.2	15.3	3.9	4.0
Missouri	221	79	133	9	100.0	59.0	38.0	3.0
Montana	65	25	34	6	17.1	5.2	9.6	2.3
Nebraska	98	55	40	3	12.0	6.3	3.2	2.5
Nevada	14	7	6	1	3.0	1.4	1.3	0.3
New Hampshire	15	1	3	11	1.2	1.0	0.1	0.1
New Jersey	46	42	1	3	21.1	18.6	0.5	2.0
New Mexico	34	17	2	15	9.3	5.0	0.5	3.8
New York	2,911	1,307	1,195	409	2,357.1	1,011.9	963.1	382.1
North Carolina	223	109	81	33	189.3	91.9	68.7	28.7
North Dakota	14	12	1	1	14.0	12.0	1.0	1.0
Ohio	69	35	29	5	43.7	33.2	7.4	3.1

Table 22. State government R&D intramural personnel, by state, headcount, and full-time equivalent: FY 2024

(Number)

State	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers ^a	Technicians	Support staff	Total	Researchers ^a	Technicians	Support staff
Oklahoma	21	12	6	3	12.5	7.5	3.5	1.5
Oregon	274	104	149	21	131.4	62.4	62.3	6.7
Pennsylvania	158	79	68	11	120.3	56.9	56.3	7.1
Rhode Island	6	3	2	1	4.0	2.5	1.0	0.5
South Carolina	386	196	145	45	261.5	153.8	81.0	26.7
South Dakota	7	6	0	1	6.5	6.0	0.0	0.5
Tennessee	0	0	0	0	0.0	0.0	0.0	0.0
Texas	34	16	6	12	21.6	11.8	5.4	4.4
Utah	68	45	12	11	38.3	29.3	7.0	2.0
Vermont	15	11	4	0	4.4	3.6	0.8	0.0
Virginia	412	263	93	56	325.3	234.2	58.2	32.9
Washington	864	454	295	115	315.9	165.4	117.8	32.7
West Virginia	74	50	9	15	68.0	47.8	9.0	11.2
Wisconsin	77	72	0	5	72.5	67.5	0.0	5.0
Wyoming	44	17	17	10	28.9	14.6	8.6	5.7
Puerto Rico ^c	231	91	87	53	202.4	82.0	73.6	46.8

^a Researchers includes R&D scientists and engineers and their managers.^b U.S. total reflects all 50 states and the District of Columbia.^c Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Source(s):**

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Table 23. State agency R&D intramural personnel, by state department or agency, headcount, and full-time equivalent: FY 2024

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers ^a	Technicians	Support staff	Total	Researchers ^a	Technicians	Support staff
United States ^b	10,063	5,623	3,094	1,346	6,491.3	3,789.8	1,804.3	897.2
Alabama	121	56	42	23	92.5	49.3	25.1	18.1
Education, Department of	51	13	32	6	24.6	6.3	15.8	2.5
Forensic Sciences, Department of	2	2	0	0	2.0	2.0	0.0	0.0
Geological Survey	34	28	2	4	31.9	28.0	1.3	2.6
Marine Environmental Science Consortium, Dauphin Island Sea Lab	30	13	8	9	30.0	13.0	8.0	9.0
Transportation, Department of	4	0	0	4	4.0	0.0	0.0	4.0
Alaska	93	54	26	13	76.0	50.9	16.9	8.2
Environmental Conservation, Department of	6	1	1	4	0.4	0.1	0.1	0.2
Natural Resources, Department of; Division of Geological and Geophysical Surveys	66	45	14	7	66.0	45.0	14.0	7.0
Railroad Corporation	14	6	6	2	7.8	4.0	2.8	1.0
Transportation and Public Facilities, Department of	7	2	5	0	1.8	1.8	0.0	0.0
Arizona	47	29	10	8	40.1	22.6	10.0	7.5
Game and Fish Department	32	22	6	4	26.6	17.1	6.0	3.5
Juvenile Corrections, Department of	3	3	0	0	1.5	1.5	0.0	0.0
Transportation, Department of	12	4	4	4	12.0	4.0	4.0	4.0
Arkansas	133	80	30	23	59.3	30.0	17.3	12.0
Game and Fish Commission	120	80	25	15	49.0	30.0	15.0	4.0
Transportation, Department of	13	0	5	8	10.3	0.0	2.3	8.0
California	738	609	26	103	574.1	480.6	8.4	85.1
Air Resources Board	82	70	3	9	81.4	70.0	2.4	9.0
Conservation, Department of	50	39	8	3	18.5	16.2	2.0	0.3
Covered California	25	23	0	2	15.0	13.8	0.0	1.2
Earthquake Authority	2	2	0	0	1.0	1.0	0.0	0.0
Emergency Services Governor's Office	1	0	0	1	1.0	0.0	0.0	1.0
Energy Commission	156	126	0	30	156.0	126.0	0.0	30.0
Environmental Health Hazard Assessment, Office of	133	98	0	35	123.4	91.5	0.0	31.9
First 5 California	1	1	0	0	1.0	1.0	0.0	0.0
Forestry and Fire Protection, Department of	28	12	12	4	10.0	5.0	1.0	4.0
Housing and Community Development, Department of	5	5	0	0	1.5	1.5	0.0	0.0
Motor Vehicles, Department of	17	13	0	4	16.1	13.0	0.0	3.1
Pesticide Regulation, Department of	91	82	0	9	41.2	40.0	0.0	1.2
Public Health, Department of	13	10	0	3	11.0	8.0	0.0	3.0
State Water Resources Control Board	33	30	0	3	12.5	12.1	0.0	0.4
Toxic Substances Control, Department of	18	18	0	0	1.5	1.5	0.0	0.0
Transportation, Department of	82	79	3	0	82.0	79.0	3.0	0.0
Water Resources, Department of	1	1	0	0	1.0	1.0	0.0	0.0

Table 23. State agency R&D intramural personnel, by state department or agency, headcount, and full-time equivalent: FY 2024

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers ^a	Technicians	Support staff	Total	Researchers ^a	Technicians	Support staff
Colorado	93	65	26	2	66.0	54.5	10.2	1.3
Agriculture, Department of	23	2	21	0	8.9	1.0	7.9	0.0
Natural Resources, Department of	41	35	5	1	28.3	25.7	2.3	0.3
Public Health and Environment, Department of	24	24	0	0	23.8	23.8	0.0	0.0
Transportation, Department of	5	4	0	1	5.0	4.0	0.0	1.0
Connecticut	292	199	39	54	182.8	130.1	37.0	15.7
Agricultural Experiment Station	112	64	35	13	112.0	64.0	35.0	13.0
Energy and Environmental Protection, Department of	60	56	4	0	30.0	28.0	2.0	0.0
Mental Health and Addiction Services, Department of	40	39	0	1	33.0	32.0	0.0	1.0
Social Services, Department of	34	34	0	0	2.8	2.8	0.0	0.0
Transportation, Department of	46	6	0	40	5.0	3.3	0.0	1.7
Delaware	19	13	2	4	19.0	13.0	2.0	4.0
Geological Survey	19	13	2	4	19.0	13.0	2.0	4.0
District of Columbia	30	15	9	6	17.1	8.5	6.1	2.5
Health, Department of	22	10	6	6	10.6	4.0	4.1	2.5
Transportation, Department of	4	1	3	0	3.0	1.0	2.0	0.0
Water and Sewer Authority	4	4	0	0	3.5	3.5	0.0	0.0
Florida	926	727	65	134	791.8	627.0	45.2	119.6
Agriculture and Consumer Services, Department of	7	3	3	1	7.0	3.0	3.0	1.0
Citrus, Department of	1	1	0	0	0.0	0.0	0.0	0.0
Fish and Wildlife Conservation Commission	895	716	50	129	767.0	618.0	34.0	115.0
Transportation, Department of	23	7	12	4	17.8	6.0	8.2	3.6
Georgia	9	6	1	2	7.8	5.1	1.0	1.7
Natural Resources, Department of	2	2	0	0	1.5	1.5	0.0	0.0
Southern States Energy Board	7	4	1	2	6.3	3.6	1.0	1.7
Hawaii	10	3	1	6	4.7	1.3	0.2	3.2
Agriculture, Department of	8	3	1	4	2.7	1.3	0.2	1.2
Business, Economic Development, and Tourism, Department of	2	0	0	2	2.0	0.0	0.0	2.0
Idaho	108	53	44	11	35.0	16.9	13.4	4.7
Fish and Game, Department of	105	52	44	9	32.0	15.9	13.4	2.7
Mint Commission	1	1	0	0	1.0	1.0	0.0	0.0
Transportation Department	2	0	0	2	2.0	0.0	0.0	2.0
Illinois	5	2	1	2	3.4	1.8	0.8	0.8
Transportation, Department of	5	2	1	2	3.4	1.8	0.8	0.8
Indiana	123	56	49	18	32.0	21.2	8.9	1.9
Natural Resources, Department of	93	46	35	12	16.6	11.2	4.9	0.5
Transportation, Department of	30	10	14	6	15.4	10.0	4.0	1.4

Table 23. State agency R&D intramural personnel, by state department or agency, headcount, and full-time equivalent: FY 2024

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers ^a	Technicians	Support staff	Total	Researchers ^a	Technicians	Support staff
Iowa	36	21	13	2	17.7	11.0	6.2	0.5
Management, Department of Data; Division of Planning and Improvement	6	4	0	2	3.0	2.5	0.0	0.5
Natural Resources, Department of	30	17	13	0	14.7	8.5	6.2	0.0
Kansas	181	82	81	18	36.6	22.3	9.1	5.2
State Board of Regents	2	2	0	0	0.1	0.1	0.0	0.0
Transportation, Department of	16	8	4	4	16.0	8.0	4.0	4.0
Water Office	7	5	0	2	3.0	2.0	0.0	1.0
Wildlife and Parks, Department of	156	67	77	12	17.5	12.2	5.1	0.2
Kentucky	279	155	117	7	18.3	13.4	4.5	0.4
Fish and Wildlife Resources, Department of	279	155	117	7	18.3	13.4	4.5	0.4
Louisiana	308	164	85	59	54.5	31.5	18.0	5.0
Coastal Protection and Restoration Authority	11	7	0	4	7.5	6.5	0.0	1.0
Transportation and Development, Department of	27	12	12	3	27.0	12.0	12.0	3.0
Wildlife and Fisheries, Department of	270	145	73	52	20.0	13.0	6.0	1.0
Maine	150	104	35	11	77.5	37.7	30.1	9.7
Agriculture, Conservation and Forestry, Department of	15	10	4	1	10.8	8.8	2.0	0.0
Aquaculture Innovation Center	5	3	2	0	4.3	2.6	1.7	0.0
Inland Fisheries and Wildlife, Department of	68	68	0	0	5.6	5.6	0.0	0.0
Marine Resources, Department of	4	2	2	0	4.0	2.0	2.0	0.0
MDI Biological Laboratory, Center for Biomedical Innovation	53	18	25	10	49.6	16.6	23.3	9.7
Transportation, Department of	5	3	2	0	3.2	2.1	1.1	0.0
Maryland	20	2	11	7	12.9	0.0	7.9	5.0
Transportation, Department of	20	2	11	7	12.9	0.0	7.9	5.0
Massachusetts	46	24	18	4	15.6	10.9	3.7	1.0
Environmental Protection, Department of	34	14	16	4	7.0	3.0	3.0	1.0
Fish and Game, Department of	2	1	1	0	0.6	0.1	0.5	0.0
Gaming Commission	2	2	0	0	1.6	1.6	0.0	0.0
Transportation, Department of	6	6	0	0	6.0	6.0	0.0	0.0
Water Resources Authority	2	1	1	0	0.4	0.2	0.2	0.0
Michigan	3	2	0	1	1.7	1.5	0.0	0.2
Agriculture and Rural Development, Department of	1	1	0	0	0.5	0.5	0.0	0.0
Environmental, Great Lakes, and Energy, Department of	2	1	0	1	1.2	1.0	0.0	0.2
Minnesota	113	64	27	22	52.8	24.6	14.1	14.1
Agriculture, Department of	30	11	15	4	9.6	3.0	5.6	1.0
Employment and Economic Development, Department of	4	3	0	1	1.8	1.5	0.0	0.3
Forest Resources Council	1	1	0	0	0.3	0.3	0.0	0.0
Labor and Industry, Department of	7	7	0	0	6.5	6.5	0.0	0.0

Table 23. State agency R&D intramural personnel, by state department or agency, headcount, and full-time equivalent: FY 2024

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers ^a	Technicians	Support staff	Total	Researchers ^a	Technicians	Support staff
Natural Resources, Department of	48	37	7	4	12.1	8.3	3.5	0.3
Transportation, Department of	23	5	5	13	22.5	5.0	5.0	12.5
Mississippi	30	21	5	4	23.2	15.3	3.9	4.0
Gulf States Marine Fisheries Commission	1	1	0	0	1.0	1.0	0.0	0.0
Marine Resources, Department of	11	9	2	0	4.2	3.3	0.9	0.0
Transportation, Department of	6	2	0	4	6.0	2.0	0.0	4.0
Wildlife, Fisheries, and Parks, Department of	12	9	3	0	12.0	9.0	3.0	0.0
Missouri	221	79	133	9	100.0	59.0	38.0	3.0
Conservation, Department of	218	77	133	8	98.0	58.0	38.0	2.0
Wine and Grape Board	3	2	0	1	2.0	1.0	0.0	1.0
Montana	65	25	34	6	17.1	5.2	9.6	2.3
Environmental Quality, Department of	10	4	6	0	5.0	2.0	3.0	0.0
Fish, Wildlife and Parks, Department of	50	21	26	3	9.4	3.2	5.2	1.0
Transportation, Department of	5	0	2	3	2.7	0.0	1.4	1.3
Nebraska	98	55	40	3	12.0	6.3	3.2	2.5
Game and Parks Commission	88	54	32	2	10.5	6.0	3.0	1.5
Transportation, Department of	10	1	8	1	1.5	0.3	0.2	1.0
Nevada	14	7	6	1	3.0	1.4	1.3	0.3
Agriculture, Department of	3	1	2	0	1.2	0.4	0.8	0.0
Conservation and Natural Resources, Department of	11	6	4	1	1.8	1.0	0.5	0.3
New Hampshire	15	1	3	11	1.2	1.0	0.1	0.1
Transportation, Department of	15	1	3	11	1.2	1.0	0.1	0.1
New Jersey	46	42	1	3	21.1	18.6	0.5	2.0
Children and Families, Department of	10	10	0	0	1.6	1.6	0.0	0.0
Corrections, Department of	4	4	0	0	4.0	4.0	0.0	0.0
Environmental Protection, Department of	25	22	1	2	12.5	11.0	0.5	1.0
Pinelands Commission	5	5	0	0	1.0	1.0	0.0	0.0
State Parole Board	2	1	0	1	2.0	1.0	0.0	1.0
New Mexico	34	17	2	15	9.3	5.0	0.5	3.8
Game and Fish, Department of	29	17	2	10	7.0	5.0	0.5	1.5
Transportation, Department of	5	0	0	5	2.3	0.0	0.0	2.3
New York	2,911	1,307	1,195	409	2,357.1	1,011.9	963.1	382.1
Agriculture and Markets, Department of	13	12	1	0	7.0	6.0	1.0	0.0
Energy Research and Development Authority	33	20	0	13	27.0	20.0	0.0	7.0
Environmental Conservation, Department of	59	48	11	0	26.5	20.7	5.8	0.0
Health, Department of	336	236	61	39	248.6	168.3	46.6	33.7
Mental Health, Office of	1,314	515	618	181	1,009.0	365.0	469.0	175.0

Table 23. State agency R&D intramural personnel, by state department or agency, headcount, and full-time equivalent: FY 2024

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers ^a	Technicians	Support staff	Total	Researchers ^a	Technicians	Support staff
People with Developmental Disabilities, Office of	26	17	2	7	18.4	10.3	1.8	6.3
Power Authority	13	11	0	2	13.0	11.0	0.0	2.0
Roswell Park Comprehensive Cancer Center	1,033	422	450	161	924.7	384.6	388.0	152.1
State Museum	78	22	52	4	76.9	22.0	50.9	4.0
Transportation, Department of	6	4	0	2	6.0	4.0	0.0	2.0
North Carolina	223	109	81	33	189.3	91.9	68.7	28.7
Agriculture and Consumer Services, Department of	141	67	57	17	141.0	67.0	57.0	17.0
Environmental Quality, Department of	27	9	12	6	19.5	7.8	5.7	6.0
Natural and Cultural Resources, Department of	46	26	12	8	20.8	11.1	6.0	3.7
Transportation, Department of	9	7	0	2	8.0	6.0	0.0	2.0
North Dakota	14	12	1	1	14.0	12.0	1.0	1.0
Game and Fish, Department of	2	2	0	0	2.0	2.0	0.0	0.0
Historical Society of North Dakota	10	8	1	1	10.0	8.0	1.0	1.0
Transportation, Department of	2	2	0	0	2.0	2.0	0.0	0.0
Ohio	69	35	29	5	43.7	33.2	7.4	3.1
Education and Workforce, Department of	2	2	0	0	0.2	0.2	0.0	0.0
Mental Health and Addictions Services, Department of	21	13	8	0	13.0	13.0	0.0	0.0
Natural Resources, Department of	46	20	21	5	30.5	20.0	7.4	3.1
Oklahoma	21	12	6	3	12.5	7.5	3.5	1.5
Grand River Dam Authority	6	3	2	1	2.3	1.0	1.0	0.3
Health, Department of	10	5	4	1	5.2	2.5	2.5	0.2
Transportation, Department of	4	3	0	1	4.0	3.0	0.0	1.0
Wildlife Conservation, Department of	1	1	0	0	1.0	1.0	0.0	0.0
Oregon	274	104	149	21	131.4	62.4	62.3	6.7
Education, Department of	4	2	0	2	0.0	0.0	0.0	0.0
Fish and Wildlife, Department of	208	63	136	9	98.9	37.4	57.8	3.7
Forestry, Department of	20	5	10	5	8.5	5.0	2.5	1.0
Geology and Mineral Industries, Department of	21	16	2	3	8.5	6.0	1.5	1.0
Transportation, Department of	7	5	1	1	2.0	1.0	0.5	0.5
Water Resources Department	13	13	0	0	13.0	13.0	0.0	0.0
Watershed Enhancement Board	1	0	0	1	0.5	0.0	0.0	0.5
Pennsylvania	158	79	68	11	120.3	56.9	56.3	7.1
Conservation and Natural Resources, Department of	2	1	1	0	1.2	0.4	0.8	0.0
Environmental Protection, Department of	6	6	0	0	0.5	0.5	0.0	0.0
Fish and Boat Commission	17	12	5	0	0.7	0.5	0.2	0.0
Game Commission	117	55	55	7	117.0	55.0	55.0	7.0
Susquehanna River Basin Commission	16	5	7	4	0.9	0.5	0.3	0.1

Table 23. State agency R&D intramural personnel, by state department or agency, headcount, and full-time equivalent: FY 2024

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers ^a	Technicians	Support staff	Total	Researchers ^a	Technicians	Support staff
Rhode Island	6	3	2	1	4.0	2.5	1.0	0.5
Narragansett Bay National Estuarine Research Reserve; Environmental Management, Department of	3	2	1	0	2.5	2.0	0.5	0.0
Transportation, Department of	3	1	1	1	1.5	0.5	0.5	0.5
South Carolina	386	196	145	45	261.5	153.8	81.0	26.7
Health and Environmental Control, Department of	17	4	3	10	7.5	3.0	3.0	1.5
Natural Resources, Department of	318	161	131	26	224.0	129.0	78.0	17.0
Sea Grant Consortium	38	20	11	7	27.0	20.0	0.0	7.0
Transportation, Department of	13	11	0	2	3.0	1.8	0.0	1.2
South Dakota	7	6	0	1	6.5	6.0	0.0	0.5
Soybean Research and Promotion Council	1	0	0	1	0.5	0.0	0.0	0.5
Transportation, Department of	6	6	0	0	6.0	6.0	0.0	0.0
Tennessee	0	0	0	0	0.0	0.0	0.0	0.0
Texas	34	16	6	12	21.6	11.8	5.4	4.4
Animal Health Commission	3	2	1	0	1.9	1.5	0.4	0.0
Environmental Quality, Commission on	6	0	0	6	0.6	0.0	0.0	0.6
Parks and Wildlife Department	25	14	5	6	19.1	10.3	5.0	3.8
Utah	68	45	12	11	38.3	29.3	7.0	2.0
Environmental Quality, Department of	1	1	0	0	0.3	0.3	0.0	0.0
Natural Resources, Department of	60	40	10	10	31.0	25.0	5.0	1.0
Transportation, Department of	7	4	2	1	7.0	4.0	2.0	1.0
Vermont	15	11	4	0	4.4	3.6	0.8	0.0
Human Services, Agency of	10	7	3	0	2.7	1.9	0.8	0.0
Transportation, Agency of	5	4	1	0	1.7	1.7	0.0	0.0
Virginia	412	263	93	56	325.3	234.2	58.2	32.9
Education, Department of	5	3	1	1	2.5	1.5	0.5	0.5
Energy, Department of	35	22	7	6	21.7	16.8	3.5	1.4
Environmental Quality, Department of	3	3	0	0	0.3	0.3	0.0	0.0
Forensic Science, Department of	11	9	2	0	7.0	6.0	1.0	0.0
Forestry, Department of	13	1	12	0	11.2	1.0	10.2	0.0
Innovation Partnership Authority	10	1	0	9	10.0	1.0	0.0	9.0
Marine Resources Commission	2	1	1	0	2.0	1.0	1.0	0.0
Natural History, Museum of	10	6	3	1	9.5	6.0	3.0	0.5
Rail and Public Transportation	1	1	0	0	0.8	0.8	0.0	0.0
Social Services, Department of	18	6	10	2	17.0	6.0	10.0	1.0
Transportation, Department of	81	37	19	25	54.8	33.8	7.0	14.0
Wildlife Resources, Department of	223	173	38	12	188.5	160.0	22.0	6.5
Washington	864	454	295	115	315.9	165.4	117.8	32.7

Table 23. State agency R&D intramural personnel, by state department or agency, headcount, and full-time equivalent: FY 2024

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers ^a	Technicians	Support staff	Total	Researchers ^a	Technicians	Support staff
Ecology, Department of	46	21	21	4	17.8	5.5	9.8	2.5
Fish and Wildlife, Department of	669	339	241	89	172.0	83.0	78.0	11.0
Health, Department of	11	7	2	2	6.9	4.8	1.0	1.1
Labor and Industries, Department of	28	24	0	4	28.0	24.0	0.0	4.0
Natural Resources, Department of	88	54	25	9	73.2	41.1	25.0	7.1
Puget Sound Partnership	2	2	0	0	1.0	1.0	0.0	0.0
Transportation, Department of	8	4	0	4	7.0	3.0	0.0	4.0
Tree Fruit Research Commission	12	3	6	3	10.0	3.0	4.0	3.0
West Virginia	74	50	9	15	68.0	47.8	9.0	11.2
Agriculture, Department of	6	3	0	3	6.0	3.0	0.0	3.0
Geological and Economic Survey	28	20	3	5	28.0	20.0	3.0	5.0
Higher Education Policy Commission	3	0	0	3	1.2	0.0	0.0	1.2
Justice and Community Services, Division of Administrative Services	6	6	0	0	6.0	6.0	0.0	0.0
Natural Resources, Division of	30	20	6	4	25.8	17.8	6.0	2.0
Transportation, Department of	1	1	0	0	1.0	1.0	0.0	0.0
Wisconsin	77	72	0	5	72.5	67.5	0.0	5.0
Natural Resources, Department of	23	23	0	0	18.5	18.5	0.0	0.0
Transportation, Department of	54	49	0	5	54.0	49.0	0.0	5.0
Wyoming	44	17	17	10	28.9	14.6	8.6	5.7
Enhanced Oil Recovery Institute	9	4	3	2	3.4	1.6	1.5	0.3
Game and Fish Department	13	2	8	3	5.5	2.0	3.1	0.4
State Geological Survey	19	11	3	5	19.0	11.0	3.0	5.0
Transportation, Department of	3	0	3	0	1.0	0.0	1.0	0.0
Puerto Rico ^c	231	91	87	53	202.4	82.0	73.6	46.8
Comprehensive Cancer Center	139	60	55	24	135.0	57.0	55.0	23.0
Health, Department of	30	8	10	12	30.0	8.0	10.0	12.0
Institute of Statistics	38	8	22	8	21.4	6.0	8.6	6.8
Science, Technology and Research Trust	24	15	0	9	16.0	11.0	0.0	5.0

^a Researchers includes R&D scientists and engineers and their managers.^b U.S. total reflects all 50 states and the District of Columbia.^c Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Source(s):**

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

Technical Notes

Survey Overview (FY 2024 Survey Cycle)

Purpose. The Survey of State Government Research and Development (R&D) is the only source for comprehensive uniform statistics regarding the extent of R&D activity performed and funded by departments and agencies in each of the nation's 50 state governments, the government of the District of Columbia, and the government of Puerto Rico.

Data collection authority. The information is solicited under the National Science Foundation (NSF) Act of 1950, as amended; the America COMPETES Reauthorization Act of 2010; and Title 13, U.S. Code, § 8(b). It is collected under Office of Management and Budget control number 0607-0933, expiration date 30 June 2026. NCSSES has reviewed this product for unauthorized disclosure of confidential information and approved its release (NCSSES-DRN25-050).

Survey contractor. The Census Bureau, under NSF interagency agreement, collected, processed, and tabulated the statistics in this report.

Survey sponsor. The National Center for Science and Engineering Statistics (NCSSES) within NSF.

Key Survey Information

Frequency. Annual.

Initial survey year. FY 2006.

Reference period. State government fiscal year ending in 2024.

Response unit. State government departments, agencies, commissions, public authorities, institutions, and other entities that operate separately or somewhat autonomously from the central state government—but where the state government maintains administrative or fiscal control over their activities—with the capacity to perform or fund R&D; units are collectively referred to as *agencies*.

Sample or census. Census.

Population size. The population comprised 534 agencies from the 50 U.S. state governments, the District of Columbia, and Puerto Rico with the capacity to perform or fund R&D during FY 2024. Agencies that reported \$0 R&D in the last three survey cycles were marked as inactive for this survey cycle to reduce respondent burden and will be reactivated in two years.

Sample size. Not applicable.

Survey Design

Target population. State government departments, agencies, commissions, public authorities, institutions, and other entities that operate separately or somewhat autonomously from the central state government but where the state government maintains administrative or fiscal control over their activities, as defined by the Census Bureau's [Government Finance and Employment Classification Manual](#) (see chapter 1), and that funded or performed R&D for state government FY 2024. Several industry-specific state commissions, which are generally chartered by state legislatures but are administered independently, are considered state agencies and are included in the survey's population. State-run colleges and universities, which are canvassed as part of the NCSSES Higher Education Research and Development (HERD) Survey, are excluded from the survey frame. State-run laboratories or experiment stations controlled by state universities are also excluded from the respondent

universe, as are any entities determined to be nonprofit or private, as defined by the Census Bureau government classification criteria. However, because agricultural experiment stations in Connecticut are legally organized as a state government-dependent agency and because they are not affiliated with any university system, they are included in the survey's population.

Sampling frame. The total universe includes all state government-dependent units, including those for the District of Columbia and Puerto Rico, with the capacity to perform and fund R&D, identified with the aid of a state coordinator who is appointed by the governor of each state. For the FY 2024 survey, state coordinators were provided with a list of agencies that were previously identified from the FY 2023 survey cycle as having the potential to perform or fund R&D. In addition, these lists included agencies identified from a systematic review of state session laws. State coordinators were asked to review this list and add agencies that they believed were involved with R&D and were not already identified. State coordinators also adjusted the agency universe to remove agencies that have never had any qualifying R&D to report to NCSSES, to add any agencies that were missing or could have R&D to report, to address organizational changes within their respective states since the previous survey, and to provide updated agency contact information.

Sample design. The Survey of State Government R&D is a census.

Data Collection and Processing Methods

Data collection. For FY 2024, e-mails were sent to the chief of staff for all governors asking them to appoint a state coordinator. Census Bureau staff also reached out to prior state coordinators asking if they would be willing to continue to serve as the coordinators for the FY 2024 cycle. On a flow basis, state coordinators were sent a list of agencies and contacts that were surveyed for the FY 2023 Survey of State Government R&D and asked to add agencies that might have some R&D, remove agencies from the survey universe that no longer perform or fund R&D or have been reorganized, and update agency points of contact. Once the state coordinators completed updates to the list of active agencies to be surveyed, they then sent introductory e-mails to the agency respondents stating that respondents would be receiving an e-mail with instructions and the survey form to be completed and e-mailed back to the Census Bureau. The state coordinators sent the updated list of agencies and contacts back to the Census Bureau. After receiving the list of updated agencies, agencies identified as having the potential to perform or fund R&D were then e-mailed the survey form. Upon completion by all agencies within a state, the state coordinators were given their state agencies' aggregate data to review before final analysis and dissemination.

Mode. State agencies were e-mailed a fillable PDF form with auto summations and edits built in and were asked to complete the form. State coordinators were given a spreadsheet of potential state agencies and contact information to review and revise as necessary to add agencies to be surveyed, remove others from the survey as inactive, or make corrections to agency points of contact.

Response rates. Response rates were calculated for the FY 2024 Survey of State Government R&D and are available in [table A-1](#).

All 50 U.S. state governments participated in the survey. A total of 43 of 52 coordinators updated their spreadsheet of potential state agencies. However, only 21 of 52 coordinators officially responded to verify the final aggregate data. For those agencies that did not have a coordinator appointed, final aggregate data files were sent to staff at NCSSES for review. Some or all agencies submitted data in those states where the coordinator did not verify data officially. A coordinator was not appointed in Arkansas, Colorado, Delaware, District of Columbia, Hawaii, Iowa, Kentucky, Louisiana, and Rhode Island.

Historically, NCSSES has partnered with the Puerto Rico Institute of Statistics to collect information on R&D spending from Puerto Rico agencies. For FY 2024, the governor's office appointed a coordinator within the Department of Economic Development and Commerce. The Puerto Rico coordinator identified additional agencies that were performing or funding R&D, including some that had split apart from other agencies. Responses were received from 16 of the 17 agencies in Puerto Rico that were sent the survey. One agency was removed because its data was included in another agency's response. Thus, the FY 2023 and FY 2024 data for Puerto Rico may not be directly comparable to each other.

The final agency response was 516 of 534 agencies (96.6%).

The following agencies did not respond to the survey and as a result may contribute to an undercount in the estimated public expenditures for R&D activities:

- Arkansas Department of Education
- Arkansas Department of Energy & Environment
- California San Gabriel & Lower Los Angeles Rivers and Mountains Conservancy
- California Department of Social Services
- District of Columbia Department of Forensic Sciences
- Idaho Department of Agriculture
- Idaho Alfalfa and Clover Seed Commission
- Idaho Honey Commission
- Idaho Oilseed Commission
- Illinois Nutrient Research and Education Council
- Kentucky Department of Fish and Wildlife Resources
- Louisiana Beef Industry Council
- Maine Aquaculture Innovation Center
- Minnesota Department of Commerce
- Minnesota Department of Education
- Ohio Air Quality Development Authority
- Ohio Department of Commerce
- West Virginia Department of Transportation

Of the 516 agencies that responded, 380 (73.6%) reported having some R&D activity in FY 2024.

Data editing. Initial agency data submissions were received via fillable forms e-mailed to the Census Bureau analyst. Basic logical edit checks, review of respondent comments, and comparisons of data from previous surveys allowed Census Bureau and NCSSES staff to detect data errors and work with respondents to correct them. Census Bureau and NCSSES staff also conducted follow-up to agencies with major data changes in R&D between FY 2023 and FY 2024 to ensure the accuracy of the survey data. Major data changes are dependent on the state and type of agency. After all the agencies in a state submitted responses, a spreadsheet of aggregated agency data was sent to the coordinators. They were asked to perform a final verification of aggregated agency data.

Imputation. Data were imputed for six agencies for this cycle because they are known to have had reported R&D in previous survey cycles, while the remaining nonresponding agencies have traditionally reported \$0 R&D in previous survey cycles. Idaho Oilseed Commission and West Virginia Department of Transportation were imputed using the average of prior-year reporting patterns. Idaho Department of Agriculture, Kentucky Department of Fish and Wildlife Resources, and Maine Aquaculture Innovation Center were imputed using the ratio method of the state totals for R&D. Illinois Nutrient Research and Education Council was imputed using data from their annual report. All state and national totals are aggregates of reported agency data. Each state government's organizational structure, laws, and delegation of powers within its purview are unique. No universally applied methods of imputation can be used across all state government agencies and still account for these structural differences. This is consistent with basic statistical methods used by the Census Bureau's Census of Governments, Survey of State Government Finance. Therefore, R&D expenditures may be underestimated in states where agencies failed to respond. When imputation methods are used, they are handled on an individual agency and state-by-state basis.

Weighting. Not applicable.

Variance estimation. Not applicable.

Survey Quality Measures

Sampling error. Not applicable.

Coverage error. In addition to a Census Bureau review of state session laws to identify agencies with the capacity to fund R&D, NCSSES utilizes the expertise of an appointed state coordinator to assist in identifying state government agencies that have the capacity to perform or fund R&D. State coordinators are also offered the opportunity to review survey responses from their respective state agencies before data are finalized for release. In cases where the state coordinator refused to cooperate or where some agencies failed to respond to the survey, it is possible there may be an undercount of state government R&D activities. The undercount may occur despite efforts by NCSSES and Census Bureau staff to conduct additional queries and outreach with state agencies in states that did not appoint a coordinator. In other instances, the appointed state coordinator could misinterpret the survey definition and examples of qualifying R&D activities and thus fail to identify all state government-dependent units with the capacity to perform or fund R&D. However, no measures of coverage error are produced.

Nonresponse error. Of the 534 agencies in the survey universe, 516 (96.6%) responded to the survey. Of the 516 respondents, 380 (73.6%) reported having R&D activities in FY 2024. A mathematical statistical method was used to impute for five nonresponding agencies known to have R&D in the past, namely Idaho Oilseed Commission, West Virginia Department of Transportation, Idaho Department of Agriculture, Kentucky Department of Fish and Wildlife Resources, and Maine Aquaculture Innovation Center. A sixth agency, Illinois Nutrient Research and Education Council, was imputed using data from the organization's annual report. No other imputation was used for the other nonresponding agencies because the other agencies historically have reported not having R&D. Nonresponse error is minimal.

Measurement error. The most common form of nonsampling error in the Survey of State Government R&D is in respondents' interpretation of the survey definition of qualifying R&D activities. To mitigate any potential misinterpretations, several steps were taken. NCSSES provided a series of examples specific to the types of activities performed or funded by state government agencies in the survey questionnaire's definitions and examples. All responses, including the initial agency data submissions and final state coordinator verifications, were received via e-mail or phone. Census Bureau staff performed basic logical edit checks and reviewed respondent comments, allowing staff to detect errors and work with state respondents to correct them. Despite these efforts, some of the data reported could include expenditures for non-R&D activities, such as non-R&D salaries, commercialization, environmental testing, or routine survey or monitoring work. Similarly, some state data may also exclude minor R&D expenditure amounts from agencies not surveyed.

Data Comparability

The population of state agencies with the potential to perform R&D varies from year to year because R&D is highly discretionary at the state level. In addition, state government R&D totals can display considerable volatility between survey cycles. For example, state agency expenditures are influenced by several national and state-specific factors, and large changes (either increases or decreases) are not unusual, especially for discretionary spending items, such as R&D. States often will create special funds to support specific research activities for a limited time. These funds may have a one-time appropriation from the legislature and expire within 2–5 fiscal years; state agencies obligate those funds for specific R&D projects, depending on availability and expiration of funding authority, as well as other program-specific and administrative considerations. Data reported are agency direct expenditures for R&D in a given fiscal year, not obligations. As such, in the case of multiyear grants to extramural performers, an agency's expenditures for that fiscal year may be greater than its obligations because expenditures may include spending from the previous year's appropriations, depending on the specific budget authority granted by the legislature. It is likely that some portion of the reported changes reflects measurement and coverage errors. In the case of R&D funds for extramural performers, some agencies were able to report only multiyear obligations rather than single-year expenditures.

The survey asked about state agencies' expenditures for R&D at the end of FY 2024. Most states and Puerto Rico have a fiscal year that begins 1 July and ends the following 30 June. For example, FY 2024 is the state fiscal period beginning on 1 July 2023 and ending on 30 June 2024. There are, however, five exceptions to the 30 June fiscal year end: New York (ends 31 March); Texas (ends 31 August); and Alabama, the District of Columbia, and Michigan (all end 30 September). For comparability, all states, the District of Columbia, and Puerto Rico are surveyed at the same time.

A state's R&D priorities may be shaped by the state's unique legislative and budgeting processes. State budget practices vary considerably due to both political and historical reasons. Nineteen states enact biennial budgets. Of these states, Montana, Nevada, North Dakota, and Texas have both biennial legislative sessions and biennial budgets. The remaining 15 states of Connecticut, Hawaii, Indiana, Kentucky, Maine, Minnesota, Nebraska, New Hampshire, North Carolina, Ohio, Oregon, Virginia, Washington, Wisconsin, and Wyoming hold annual legislative sessions but maintain biennial budgeting. Only North Dakota and Wyoming enact consolidated 2-year budgets; other biennial budget states enact two annual budgets at one time. As such, the nature of a state's budget priorities for R&D may be determined on a biennial basis in some states; in others, however, it may be determined on an annual basis. In states with biennial budgets, the legislatures will often make supplemental appropriations to the second-year budget, which may result in further changes to the initial funding priorities.

The data exclude R&D expenditures by state governments that did not flow through state agencies' budgets. The state totals do not include direct appropriations from state legislatures to colleges and universities. Higher education institutions' expenditures from state government appropriations are available from the NCSSES [HERD Survey](#). For FY 2024, state government agencies reported \$1.2 billion in expenditures used to support R&D performance by academic institutions. A major factor for the difference between totals reported in the HERD Survey and the Survey of State Government R&D is that direct appropriations to state-run universities are included in the former but not in the latter. Another likely factor is the exclusion of R&D at agricultural experiment stations from the state survey totals because they are generally associated with land-grant colleges and universities and are canvassed on the HERD Survey.

Direct comparison of state agency expenditures should also be viewed with caution because state governments often reorganize departments and agencies such that some divisions and offices that were part of one agency may be moved to another agency. In other instances, entire departments may be reorganized into newly created departments. Although the FY 2024 Survey of State Government R&D encountered several instances of these organizational changes in several states, the survey itself is not designed to measure specific changes in state government organization. To account for these and other changes in the data between FY 2023 and FY 2024, staff from the Census Bureau and NCSSES conducted follow-up calls for some agencies with major data changes, depending on the type of agency and state, to ensure the accuracy of the survey data.

Data specific to state government agencies were first released with the FY 2009 survey results and are also included in the FY 2024 data tables. Specific agency-level data for FY 2006 and FY 2007 are not available.

The current Survey of State Government R&D has been conducted for FY 2006, FY 2007, FY 2009, FYs 2010–11, FYs 2012–13, FYs 2014–15, FY 2016, FY 2017, FY 2018, FY 2019, FY 2020, FY 2021, FY 2022, FY 2023, and FY 2024. (No survey was conducted for state governments for FY 2008.) Data presented in trend tables in this report are from the most recently completed survey cycle. References to prior-year data should be restricted to those published in this report for two reasons: (1) when completing the current year’s survey, survey respondents may revise their prior year’s data and (2) NCSES reviews data for prior years for consistency with current-year responses and, if necessary, may revise these data in consultation with respondents.

NCSES has collected state government R&D data for FY 1964, FY 1965, FY 1967, FY 1968, FY 1972, FY 1973, and FY 1977 in collaboration with the Census Bureau’s Census of Governments and related programs. For FY 1987, FY 1988, and FY 1995, data collections of state government R&D were conducted by nonfederal organizations that were supported by NSF grants. As a result of differences in the survey populations, in definitions of covered R&D activities, and in collection methods over time, the results of these historical surveys are not comparable with the statistics collected for the FY 2006 and subsequent Surveys of State Government R&D.

Changes in survey coverage and population. Each year, state coordinators update the universe of agencies most likely to have funded or performed R&D based on changes in funding authority, organization changes within the government, or other initiatives by the legislature. No survey was conducted for state governments for FY 2008. Beginning with the FY 2009 survey cycle, state coordinators were no longer able to overwrite the aggregate R&D data reported by state agencies to correct or modify the state total. Any changes or revisions were now required to be made at the state government agency level.

Changes in questionnaire.

- FY 2009. The FY 2009 questionnaire was the first to collect state government R&D activities by governmental functions of agriculture, environment and natural resources, health, transportation, and other.
- FYs 2010 and 2011. The survey was reorganized as a biennial survey and collected 2 fiscal years of data on one questionnaire. In addition, the energy category was added to the list of specific government functions of R&D.
- FYs 2012 and 2013. A minor change to the instructions in Question 1 for extramural performers was made from “R&D done for your department/agency” to “R&D funded by your department/agency” to ensure that all R&D-related projects that the agency funds regardless of the end result (i.e., grants) were properly included.
- FYs 2014 and 2015. The survey was revised to collect additional details about R&D funding and performance to better align with the Organisation for Economic Co-operation and Development (OECD) *2002 Frascati Manual*, the most recent edition available at survey launch. These changes include source of funds for extramural R&D performance supported by federal funds, state funds, or other funds. For all federal funds received for both intramural and extramural R&D, respondents were asked how much was received from specific federal agencies. For intramural R&D performance, respondents were asked how much of federal, state, and other funding was classified as basic research, applied research, or experimental development.
- FY 2016. The survey reporting period changed from a biennial to an annual survey. Questions remained the same with some minor additions to examples and wording changes. A remarks box was added for respondents to provide comments.
- FY 2017. The “other” category for “internal sources of R&D” was split into multiple categories: nonfederal government funds, nonprofit organizations, businesses, and higher education institutions.
- FY 2018. No changes were made.

- FY 2019. A question asking about the amount of time it takes to complete the survey was added for administrative purposes.
- FY 2020. Two new questions were added asking for the number of intramural R&D personnel and the number of full-time equivalent employees for researchers, technicians, and support staff. Data from these new questions are not available this year.
- FY 2021. The survey was restructured to group related questions together. For example, questions on expenditures for R&D performed internally by type of R&D, internal R&D employees, and internal full-time equivalent R&D personnel were moved to follow the internal R&D expenditures question. Similarly, questions on expenditures for R&D performed externally and expenditures for R&D performed externally by type of entity were moved to follow the internal R&D questions. All questions asking for crosscuts on the total R&D expenditures were moved to follow both internal and external R&D-related questions.
- FY 2022. The “other” category for external performance of R&D was split into multiple categories: nonprofit organizations, other governments (i.e., federal, federally funded research and development centers, other state governments, and local governments), and other performers not elsewhere classified. Expenditures for construction and acquisition of land and facilities was broken into internal and external. Neither one of these changes was published in the data tables.
- FY 2023. No changes were made.
- FY 2024. No changes were made.

Changes in reporting procedures or classification.

- FY 2018. Online reporting was replaced with a fillable PDF with automated summations and edits built into the survey instrument.
- FYs 2019–21. No changes were made.
- FY 2022. Census Bureau staff reached out to Puerto Rico agencies directly with a Spanish-language version of the fillable PDF survey form. Puerto Rico did not report data for FYs 2016 through 2021 but resumed reporting in FY 2022. Between FYs 2005 and 2016, the Puerto Rico Institute of Statistics (PRIS) conducted its own survey of R&D. Staff from the Census Bureau and NCSSES worked with staff at PRIS to ensure questions relevant to the Survey of State Government R&D were consistent with those asked by the PRIS during their survey. PRIS would send agency responses to the Census Bureau and NCSSES for addition into the Survey of State Government R&D. Between FYs 2016 and 2022, PRIS suspended its own survey and Census Bureau staff provided a copy of the fillable PDF survey to the Puerto Rico coordinator to send to agencies and provide responses back to the Census Bureau. However, agencies did not respond to requests from the coordinator in Puerto Rico during this time. For the FY 2022 survey, the coordinator in Puerto Rico recommended Census Bureau staff reach out to specific agencies identified by the coordinator for survey responses.
- FY 2023. No changes were made.
- FY 2024. No changes were made.

Definitions

Applied research. Original investigation undertaken in order to acquire new knowledge. It is, however, directed primarily toward a specific, practical aim or objective.

Basic research. Experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.

Construction and acquisition of facilities used primarily for R&D. Includes the acquisition of, construction of, and major repairs or alterations to structures, works, equipment, facilities, or land for use in R&D activities. Construction and acquisition of land and facilities used primarily for R&D includes major costs for construction and purchase of buildings to be primarily used as R&D facilities.

Experimental development. Systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed to producing new products or processes or to improving existing products or processes.

Performers, extramural. Those outside the department or agency who perform R&D under the administrative oversight or control of that department or agency. This may include projects for the department or agency as well as the department's or agency's extramural research programs. Extramural performers include the following:

- *Academic institutions.* Public or private universities and colleges.
- *Companies and individuals.* Performers under contract for research projects or that received grants for research projects.
- *Nonprofit organizations.* This would include foundations.
- *Other governments.* Government departments and agencies; other departments or agencies within the state; other state governments; and county, city, special district, or regional local governments either within their own state or in other states.
- *Other performers not elsewhere classified.*

Performers, intramural. Department's or agency's own employees who perform R&D, which includes R&D performed by those employees and services performed by others in support of an internal R&D project (e.g., laboratory testing).

Research and development. Comprise creative and systematic work undertaken in order to increase the stock of knowledge—including knowledge of humankind, culture, and society—and to devise new applications of available knowledge. Sources and examples of R&D funding include the following:

- *Federal government.* Grants, contracts, awards, and appropriations from the U.S. government.
- *State.* Appropriations from the state legislature, agricultural commodity assessments, bond funds, general funds, restricted funds, revenue funds, state grants, tobacco settlement funds, lottery proceeds, funds from other agencies within the state, and revenue from charges, fees, or fines.
- *Nonprofit organizations.* Includes funding from foundations.
- *Nonfederal government.* Funding from other state governments, county, city, regional, or other local governments.
- *Businesses.* Grants and contracts from companies.
- *Higher education institutions.* Funding from public or private universities and colleges.
- *R&D employee count.*
 - *Researchers.* For example, biologists, psychologists, research scientists and engineers, primary investigators, and R&D managers.
 - *Technicians.* Equivalent staff includes wildlife technicians, lab technicians, and field staff.
 - *Support staff.* For example, accountants, facilities management, grant specialist, and clerical staff.
- *Full-time equivalent R&D personnel.* Calculated as the total working hours spent working on R&D during your state government's fiscal year divided by the number of hours representing a full-time schedule within the same period.

Technical Tables

Table	Title
A-1	Final response rates and agencies reporting R&D to the survey: FY 2024

Table A-1. Final response rates and agencies reporting R&D to the survey: FY 2024

(Number and percent)

Agencies selected	Agencies surveyed (number)	Responses		R&D reported among respondents	
		Number	Percent	Number	Percent
All agencies	534	516	96.6	380	73.6

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.

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