

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Alabama	5,120,567	2,070,671	538	2,367,116	640,370	29,179	12,692
Departments							
Department of Agriculture	89,615	5,793	0	173	81,664	1,366	619
Department of Commerce	27,593	5,611	0	8,574	13,408	0	0
Department of Defense	3,934,045	2,039,921	538	1,823,111	57,243	13,095	138
Department of Education	4,100	0	0	0	371	0	3,729
Department of Energy	26,095	0	0	14,241	11,854	0	0
Department of Health and Human Services	369,389	142	0	6,919	355,244	5,189	1,894
Department of Homeland Security	3,704	0	0	3,704	0	0	0
Department of the Interior	1,226	508	0	0	685	0	33
Department of Justice	1,347	0	0	0	1,347	0	0
Department of Transportation	12,308	2	0	4,797	1,480	0	6,029
Department of Veterans Affairs	15,701	15,701	0	0	0	0	0
Other agencies							
Agency for International Development	6,678	0	0	0	0	6,678	0
Environmental Protection Agency	476	0	0	268	208	0	0
National Aeronautics and Space Administration	546,575	2,793	0	504,053	39,479	0	250
National Science Foundation	81,513	0	0	1,275	77,387	2,851	0
Nuclear Regulatory Commission	200	200	0	0	0	0	0
Alaska	360,610	67,249	0	144,247	119,014	12,095	18,004
Departments							
Department of Agriculture	16,209	10,101	0	0	3,834	193	2,081
Department of Commerce	7,810	3,904	0	0	3,782	60	64
Department of Defense	186,131	28,751	0	133,272	16,140	1,031	6,938
Department of Education	2,279	0	0	0	0	2,279	0
Department of Energy	13,542	918	0	607	5,542	4,229	2,245
Department of Health and Human Services	21,353	127	0	5,483	9,365	3,273	3,105
Department of Homeland Security	1,176	0	0	1,176	0	0	0
Department of the Interior	24,078	23,440	0	306	70	19	243
Department of Transportation	4,924	0	0	0	1,595	0	3,329
Other agencies							
Environmental Protection Agency	4,373	0	0	425	3,948	0	0
National Aeronautics and Space Administration	22,852	9	0	2,493	20,350	0	0
National Science Foundation	55,516	0	0	117	54,388	1,011	0

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Nuclear Regulatory Commission	368	0	0	368	0	0	0
Arizona	2,661,988	119,345	113,198	1,683,723	628,884	103,584	13,254
Departments							
Department of Agriculture	37,398	21,510	0	313	14,853	275	447
Department of Commerce	4,409	0	0	222	4,188	0	0
Department of Defense	1,732,651	58,582	0	1,590,675	73,977	3,605	5,812
Department of Education	1,332	0	0	0	1,309	0	23
Department of Energy	73,794	108	0	23,795	49,891	0	0
Department of Health and Human Services	389,524	10,705	0	21,228	265,301	86,892	5,398
Department of Homeland Security	5,233	0	0	633	4,600	0	0
Department of the Interior	16,969	15,860	0	0	987	1	121
Department of Justice	90	0	0	0	90	0	0
Department of Transportation	7,161	2	0	4,246	1,460	0	1,453
Department of Veterans Affairs	10,285	10,285	0	0	0	0	0
Other agencies							
Agency for International Development	6,750	0	0	0	6,750	0	0
Environmental Protection Agency	772	0	0	0	772	0	0
National Aeronautics and Space Administration	126,583	2,294	0	32,957	80,008	11,324	0
National Science Foundation	249,037	0	113,198	9,654	124,698	1,486	0
Arkansas	254,756	46,442	5,135	32,366	151,887	15,287	3,640
Departments							
Department of Agriculture	58,962	28,405	0	175	29,888	0	494
Department of Defense	33,211	976	5,135	6,953	19,391	757	0
Department of Education	1,850	0	0	1,850	0	0	0
Department of Energy	8,758	0	0	2,668	5,457	500	133
Department of Health and Human Services	109,190	0	0	17,893	76,383	13,766	1,148
Department of the Interior	3,928	3,914	0	0	0	0	14
Department of Transportation	3,881	1	0	71	1,959	0	1,850
Department of Veterans Affairs	13,144	13,144	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	1,418	2	0	116	1,300	0	0
National Science Foundation	20,414	0	0	2,640	17,509	264	0
California	25,468,227	3,118,871	5,551,359	9,704,446	5,773,719	1,256,060	63,773
Departments							

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Department of Agriculture	184,939	104,569	0	7,834	69,626	1,075	1,836
Department of Commerce	57,293	924	0	706	49,202	6,370	92
Department of Defense	11,467,726	2,632,963	414,557	7,539,239	621,343	257,842	1,782
Department of Education	57,008	0	0	3,635	18,238	14,438	20,697
Department of Energy	3,127,884	1,103	2,553,007	303,445	222,796	46,332	1,202
Department of Health and Human Services	5,659,652	75	27,196	893,317	3,900,352	829,972	8,740
Department of Homeland Security	50,399	3,867	15,265	26,442	3,170	1,656	0
Department of the Interior	49,096	25,562	0	3,070	18,725	752	987
Department of Justice	4,980	0	0	1,434	2,419	1,127	0
Department of Transportation	57,661	12,101	0	12,173	8,004	334	25,049
Department of the Treasury	3,215	215	3,000	0	0	0	0
Department of Veterans Affairs	264,080	264,080	0	0	0	0	0
Other agencies							
Agency for Global Media	270	0	0	270	0	0	0
Agency for International Development	15,763	0	0	2,671	12,792	300	0
Environmental Protection Agency	14,809	0	125	8,949	3,035	2,700	0
National Aeronautics and Space Administration	3,587,196	19,964	2,537,374	837,233	155,469	34,884	2,270
National Science Foundation	862,139	53,450	224	61,877	687,754	57,716	1,118
Nuclear Regulatory Commission	2,762	0	611	2,152	0	0	0
Social Security Administration	1,355	0	0	0	795	561	0
Colorado	7,517,686	480,779	826,799	4,955,384	1,174,633	67,899	12,192
Departments							
Department of Agriculture	63,669	41,368	0	1,870	20,397	34	0
Department of Commerce	268,434	139,286	9,173	475	119,501	0	0
Department of Defense	4,803,200	197,773	18,727	4,492,529	90,273	3,897	0
Department of Education	3,123	0	0	2,000	1,123	0	0
Department of Energy	793,969	1,031	680,829	48,526	60,959	2,624	0
Department of Health and Human Services	552,774	1,727	0	49,199	445,986	51,816	4,046
Department of Homeland Security	1,130	0	0	1,130	0	0	0
Department of the Interior	49,991	43,887	222	1,088	3,850	373	571
Department of Justice	1,456	0	0	0	1,456	0	0
Department of Transportation	12,879	4,115	648	383	4,761	0	2,972
Department of Veterans Affairs	39,950	39,950	0	0	0	0	0
Other agencies							

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Environmental Protection Agency	4,212	2,025	0	1,513	675	0	0
National Aeronautics and Space Administration	492,848	8,191	0	343,559	137,283	3,815	0
National Science Foundation	427,050	1,427	117,200	13,111	288,370	5,340	1,602
Social Security Administration	3,000	0	0	0	0	0	3,000
Connecticut	2,219,655	51,814	0	1,287,052	860,065	12,833	7,891
Departments							
Department of Agriculture	13,194	1,954	0	0	10,442	0	798
Department of Commerce	8,185	0	0	77	7,108	1,000	0
Department of Defense	1,291,703	8,960	0	1,197,920	83,249	1,574	0
Department of Education	5,721	0	0	50	5,670	0	0
Department of Energy	60,845	622	0	27,235	32,123	0	865
Department of Health and Human Services	707,452	0	0	28,317	664,122	9,205	5,808
Department of Homeland Security	4,839	0	0	4,839	0	0	0
Department of the Interior	747	332	0	0	399	0	16
Department of Transportation	4,404	1	0	4,000	0	0	403
Department of Veterans Affairs	39,942	39,942	0	0	0	0	0
Other agencies							
Agency for International Development	1,290	0	0	0	555	735	0
National Aeronautics and Space Administration	27,281	3	0	24,064	3,214	0	0
National Science Foundation	54,051	0	0	550	53,182	319	0
Delaware	491,584	249,200	0	53,548	170,778	16,122	1,935
Departments							
Department of Agriculture	13,703	1,356	0	0	12,347	0	0
Department of Commerce	22,009	6	0	2,486	19,517	0	0
Department of Defense	60,914	5,472	0	16,934	38,322	186	0
Department of Education	2,556	0	0	757	1,451	0	347
Department of Energy	16,285	0	0	3,713	12,506	0	66
Department of Health and Human Services	87,662	0	0	24,297	50,730	12,207	428
Department of the Interior	1,389	367	0	0	1,022	0	0
Department of Transportation	1,296	0	0	31	171	0	1,094
Other agencies							
Agency for Global Media	*	0	0	*	0	0	0
Environmental Protection Agency	614	0	0	0	534	80	0
National Aeronautics and Space Administration	9,427	0	0	3,413	3,054	2,959	0

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National Science Foundation	33,730	0	0	1,916	31,124	690	0
Smithsonian Institution	242,000	242,000	0	0	0	0	0
District of Columbia	9,862,502	6,478,989	137,532	1,614,232	381,426	1,248,869	1,454
Departments							
Department of Agriculture	324,077	320,816	0	0	1,054	2,207	0
Department of Commerce	42,928	34,125	0	7,045	1,099	659	0
Department of Defense	4,024,086	3,012,627	7,600	753,865	52,304	197,690	0
Department of Education	11,107	0	0	0	364	10,743	0
Department of Energy	996,652	966,225	0	15,023	4,211	10,763	430
Department of Health and Human Services	550,827	190,785	0	33,190	136,583	189,781	488
Department of Homeland Security	34,017	24,868	330	8,320	500	0	0
Department of the Interior	9,946	9,184	0	546	89	126	0
Department of Justice	20,409	1,182	0	13,279	1,914	4,024	11
Department of Labor	1,898	880	0	1,018	0	0	0
Department of State	50,365	50,365	0	0	0	0	0
Department of Transportation	238,430	119,421	2,809	104,743	2,820	8,111	525
Department of the Treasury	1,978	1,978	0	0	0	0	0
Department of Veterans Affairs	383,510	256,716	126,793	0	0	0	0
Other agencies							
Agency for Global Media	1,687	800	0	886	0	0	0
Agency for International Development	22,724	21,804	0	425	0	496	0
Appalachian Regional Commission	95	0	0	0	0	95	0
Environmental Protection Agency	73,524	59,809	0	11,954	30	1,730	0
Federal Trade Commission	3,133	3,133	0	0	0	0	0
Library of Congress	3,004	3,004	0	0	0	0	0
National Aeronautics and Space Administration	2,061,540	1,348,257	0	637,370	25,040	50,873	0
National Science Foundation	378,671	4,805	0	5,978	155,364	212,523	0
Nuclear Regulatory Commission	23	0	0	23	0	0	0
Patient-Centered Outcomes Research Trust Fund	553,441	0	0	0	0	553,441	0
Postal Service	6,923	0	0	6,923	0	0	0
Social Security Administration	67,508	48,206	0	13,641	53	5,608	0
Florida	4,885,110	1,164,347	0	2,164,554	1,325,325	210,871	20,013
Departments							
Department of Agriculture	96,443	39,852	0	2,032	53,032	1,526	0

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Department of Commerce	40,319	11,504	0	234	25,887	1,417	1,278
Department of Defense	3,141,690	1,027,701	0	1,889,207	170,388	52,260	2,135
Department of Education	13,900	0	0	2,671	11,229	0	0
Department of Energy	97,897	12	0	43,753	46,164	7,695	272
Department of Health and Human Services	878,602	0	0	39,065	692,201	145,029	2,307
Department of Homeland Security	13,111	5,222	0	5,392	2,498	0	0
Department of the Interior	31,899	23,141	0	0	8,034	691	32
Department of Justice	4,294	0	0	0	4,294	0	0
Department of Transportation	27,789	497	0	1,963	18,856	0	6,473
Department of Veterans Affairs	44,191	44,191	0	0	0	0	0
Other agencies							
Agency for International Development	5,291	0	0	0	5,291	0	0
Environmental Protection Agency	13,851	10,591	0	149	3,111	0	0
National Aeronautics and Space Administration	226,795	1,637	0	169,412	55,319	427	0
National Science Foundation	241,064	0	0	10,426	228,812	1,826	0
Nuclear Regulatory Commission	459	0	0	250	209	0	0
RESTORE Act Centers of Excellence Research Grants Program	7,516	0	0	0	0	0	7,516
Georgia	2,309,497	261,151	0	624,354	1,323,212	61,152	39,628
Departments							
Department of Agriculture	134,147	69,088	0	490	64,544	25	0
Department of Commerce	3,795	0	0	0	3,795	0	0
Department of Defense	891,006	136,706	0	461,976	242,383	49,942	0
Department of Education	11,586	0	0	1,165	4,695	5,726	0
Department of Energy	179,077	3	0	106,599	47,689	0	24,786
Department of Health and Human Services	809,363	859	0	30,367	764,897	4,571	8,669
Department of Homeland Security	2,071	1,371	0	200	500	0	0
Department of the Interior	2,309	1,338	0	0	971	0	0
Department of Justice	320	0	0	0	320	0	0
Department of Transportation	19,682	47	0	9,546	3,917	0	6,173
Department of Veterans Affairs	41,896	41,896	0	0	0	0	0
Other agencies							
Agency for International Development	5,700	1,700	0	1,000	3,000	0	0
Environmental Protection Agency	10,393	7,788	0	84	2,522	0	0
National Aeronautics and Space Administration	26,843	305	0	9,061	17,441	35	0

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National Science Foundation	170,754	0	0	3,867	166,539	348	0
Nuclear Regulatory Commission	444	0	0	0	0	444	0
Social Security Administration	111	50	0	0	0	61	0
Hawaii	498,813	198,789	0	104,260	180,438	13,977	1,349
Departments							
Department of Agriculture	27,386	18,791	0	1,150	6,668	777	0
Department of Commerce	5,032	3,457	0	1	1,118	407	50
Department of Defense	299,961	171,179	0	91,814	36,918	47	3
Department of Energy	9,498	0	0	3,148	6,351	0	0
Department of Health and Human Services	69,109	0	0	5,184	57,497	5,989	440
Department of Homeland Security	40	0	0	40	0	0	0
Department of the Interior	3,696	3,685	0	0	0	10	0
Department of Transportation	856	0	0	0	0	0	856
Department of Veterans Affairs	1,380	1,380	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	28,652	297	0	310	23,049	4,996	0
National Science Foundation	53,202	0	0	2,614	48,838	1,751	0
Idaho	835,023	99,776	625,922	33,890	70,911	2,165	2,359
Departments							
Department of Agriculture	39,269	23,399	0	250	15,620	0	0
Department of Defense	137,591	66,360	37,300	29,452	3,997	217	265
Department of Energy	589,231	205	579,666	892	7,576	892	*
Department of Health and Human Services	18,318	0	0	741	16,089	1,055	433
Department of Homeland Security	3,686	1,649	118	1,919	0	0	0
Department of the Interior	5,436	5,101	0	0	335	1	0
Department of Transportation	921	*	0	0	0	0	920
Department of Veterans Affairs	3,062	3,062	0	0	0	0	0
Other agencies							
Environmental Protection Agency	194	0	194	0	0	0	0
National Aeronautics and Space Administration	2,610	0	261	194	2,155	0	0
National Science Foundation	25,901	0	0	20	25,139	0	741
Nuclear Regulatory Commission	8,805	0	8,383	422	0	0	0
Illinois	3,924,339	404,713	1,216,444	380,537	1,757,203	157,327	8,117
Departments							

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Department of Agriculture	78,256	51,444	0	175	26,638	0	0
Department of Commerce	3,348	0	0	180	2,932	235	0
Department of Defense	613,107	258,617	3,079	193,106	149,182	9,124	0
Department of Education	7,377	0	0	1,716	4,642	702	316
Department of Energy	1,404,761	335	1,204,866	35,333	132,885	31,275	66
Department of Health and Human Services	1,262,474	0	6,228	74,234	1,085,136	94,708	2,168
Department of Homeland Security	44,360	32,020	0	1,827	10,514	0	0
Department of the Interior	3,600	3,398	0	101	101	0	0
Department of Justice	6,166	0	0	0	2,669	3,496	0
Department of Transportation	20,580	375	0	7,889	5,501	1,247	5,567
Department of Veterans Affairs	57,132	57,132	0	0	0	0	0
Other agencies							
Agency for International Development	8,264	0	0	0	8,264	0	0
Appalachian Regional Commission	25	0	0	0	0	25	0
Environmental Protection Agency	43,169	0	152	41,572	1,445	0	0
National Aeronautics and Space Administration	51,402	1,392	195	19,033	29,678	1,104	0
National Science Foundation	314,999	0	0	5,346	294,470	15,183	0
Nuclear Regulatory Commission	2,176	0	1,924	25	0	227	0
Social Security Administration	3,144	0	0	0	3,144	0	0
Indiana	1,614,096	379,978	0	453,629	758,858	14,480	7,151
Departments							
Department of Agriculture	50,570	6,434	0	785	43,238	0	112
Department of Commerce	2,511	0	0	0	2,511	0	0
Department of Defense	891,593	347,196	0	416,405	114,359	13,480	152
Department of Education	2,017	0	0	0	2,017	0	0
Department of Energy	61,557	0	0	10,454	51,103	0	0
Department of Health and Human Services	389,229	0	0	12,429	375,294	50	1,457
Department of Homeland Security	300	0	0	300	0	0	0
Department of the Interior	6,447	3,870	0	0	2,577	0	0
Department of Justice	1,789	0	0	0	1,789	0	0
Department of Transportation	5,433	3	0	0	0	0	5,429
Department of Veterans Affairs	22,425	22,425	0	0	0	0	0
Other agencies							
Agency for International Development	4,268	0	0	0	4,268	0	0

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Appalachian Regional Commission	315	0	0	315	0	0	0
Environmental Protection Agency	29	0	0	0	29	0	0
National Aeronautics and Space Administration	23,212	50	0	10,870	11,343	949	0
National Science Foundation	152,401	0	0	2,071	150,330	0	0
Iowa	846,829	98,133	29,920	293,682	415,003	1,861	8,229
Departments							
Department of Agriculture	92,671	60,985	0	6,310	25,291	85	0
Department of Commerce	2,705	0	0	872	1,833	0	0
Department of Defense	293,411	307	994	269,460	22,419	230	0
Department of Education	142	0	0	0	0	142	0
Department of Energy	125,921	0	28,924	5,710	91,148	0	138
Department of Health and Human Services	208,871	0	0	5,207	200,566	1,404	1,695
Department of Homeland Security	600	0	0	0	600	0	0
Department of the Interior	532	531	1	0	0	0	0
Department of Justice	607	0	0	0	607	0	0
Department of Transportation	10,345	0	0	0	3,948	0	6,397
Department of Veterans Affairs	36,305	36,305	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	19,507	5	0	2,137	17,365	0	0
National Science Foundation	55,212	0	0	3,986	51,226	0	0
Kansas	594,329	158,424	0	32,344	366,176	4,843	32,541
Departments							
Department of Agriculture	173,269	149,020	0	0	24,250	0	0
Department of Commerce	5,000	0	0	0	5,000	0	0
Department of Defense	151,528	5,649	0	8,597	137,245	36	0
Department of Education	19,236	0	0	1,855	875	4,544	11,962
Department of Energy	13,967	0	0	5,030	8,937	0	0
Department of Health and Human Services	134,411	0	0	6,273	126,117	263	1,758
Department of Homeland Security	200	200	0	0	0	0	0
Department of the Interior	3,993	2,498	0	0	1,495	0	0
Department of Transportation	19,626	5	0	173	725	0	18,723
Department of Veterans Affairs	1,049	1,049	0	0	0	0	0
Other agencies							
Agency for International Development	8,264	0	0	0	8,264	0	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
National Aeronautics and Space Administration	10,428	3	0	9,656	769	0	0
National Science Foundation	53,357	0	0	760	52,499	0	99
Kentucky	498,183	124,768	0	38,639	327,879	1,358	5,539
Departments							
Department of Agriculture	34,561	4,479	0	1,069	28,165	848	0
Department of Commerce	250	0	0	0	250	0	0
Department of Defense	129,515	78,578	0	16,177	34,641	119	0
Department of Education	2,056	0	0	0	377	0	1,679
Department of Energy	56,621	32,768	0	3,591	20,262	0	0
Department of Health and Human Services	233,602	0	0	11,448	220,521	105	1,528
Department of the Interior	2,154	742	0	0	1,412	0	0
Department of Justice	360	0	0	0	290	0	70
Department of Transportation	2,762	0	0	500	0	0	2,262
Department of Veterans Affairs	8,202	8,202	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	6,922	0	0	5,839	1,083	0	0
National Science Foundation	21,178	0	0	16	20,876	286	0
Louisiana	488,418	51,224	0	87,345	322,847	6,479	20,523
Departments							
Department of Agriculture	68,342	39,731	0	540	28,071	0	0
Department of Commerce	3,281	0	0	0	3,281	0	0
Department of Defense	86,020	12	0	70,860	10,073	5,076	0
Department of Education	941	0	0	0	941	0	0
Department of Energy	10,300	300	0	5,249	4,655	0	96
Department of Health and Human Services	242,216	1,900	0	3,526	233,483	1,403	1,903
Department of Homeland Security	57	36	0	21	0	0	0
Department of the Interior	593	543	0	0	40	0	11
Department of Justice	1,250	0	0	0	1,250	0	0
Department of Transportation	6,282	4	0	0	1,768	0	4,511
Department of Veterans Affairs	8,617	8,617	0	0	0	0	0
Other agencies							
Environmental Protection Agency	4,235	0	0	4,235	0	0	0
National Aeronautics and Space Administration	5,470	82	0	1,382	3,569	0	437
National Science Foundation	44,769	0	0	1,531	35,702	0	7,537

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
RESTORE Act Centers of Excellence Research Grants Program	6,029	0	0	0	0	0	6,029
Social Security Administration	15	0	0	0	15	0	0
Maine	284,205	34,449	0	40,589	94,665	111,956	2,546
Departments							
Department of Agriculture	22,470	7,544	0	494	13,440	300	692
Department of Commerce	16,533	0	0	79	15,379	1,075	0
Department of Defense	41,954	778	0	23,107	16,542	1,528	0
Department of Education	1,250	0	0	1,250	0	0	0
Department of Energy	10,626	0	0	139	10,488	0	0
Department of Health and Human Services	116,170	0	0	1,906	12,306	101,587	372
Department of the Interior	1,100	1,039	0	0	0	0	61
Department of Transportation	22,162	20,741	0	0	0	0	1,420
Department of Veterans Affairs	372	372	0	0	0	0	0
Other agencies							
Environmental Protection Agency	7,364	0	0	64	7,300	0	0
National Aeronautics and Space Administration	17,901	3,975	0	12,214	1,061	652	0
National Science Foundation	26,227	0	0	1,262	18,150	6,815	0
Nuclear Regulatory Commission	75	0	0	75	0	0	0
Maryland	21,107,256	13,106,092	870,457	3,562,610	3,018,389	521,910	27,799
Departments							
Department of Agriculture	215,748	186,983	0	3,225	25,341	200	0
Department of Commerce	1,489,412	1,390,055	16,756	50,050	32,210	340	0
Department of Defense	5,377,436	2,618,741	5,228	1,535,873	815,028	402,562	5
Department of Education	5,459	0	0	0	4,794	665	0
Department of Energy	174,290	51,838	0	57,701	44,693	562	19,496
Department of Health and Human Services	11,834,240	8,765,411	848,259	976,633	1,140,212	100,458	3,268
Department of Homeland Security	24,318	14,005	0	10,111	202	0	0
Department of the Interior	18,073	16,159	0	1,349	363	159	42
Department of Justice	7,668	1,860	0	3,804	1,105	900	0
Department of Transportation	33,184	7,582	0	9,979	7,635	3,000	4,988
Department of Veterans Affairs	35,973	35,973	0	0	0	0	0
Other agencies							
Agency for International Development	20,690	437	0	1,440	18,320	493	0
Consumer Product Safety Commission	374	374	0	0	0	0	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Environmental Protection Agency	19,493	0	0	19,464	30	0	0
National Aeronautics and Space Administration	1,471,400	12,357	0	663,286	792,305	3,452	0
National Science Foundation	371,360	2,774	0	223,996	135,471	9,119	0
Nuclear Regulatory Commission	2,583	791	214	1,578	0	0	0
Social Security Administration	5,555	753	0	4,121	681	0	0
Massachusetts	9,422,042	650,505	960,142	3,184,731	2,309,389	2,310,115	7,160
Departments							
Department of Agriculture	38,582	7,255	0	5,412	19,832	6,083	0
Department of Commerce	53,721	10,440	0	1,064	41,507	675	35
Department of Defense	3,716,809	232,869	876,259	2,062,040	347,969	197,671	0
Department of Education	21,462	0	0	137	9,249	11,772	304
Department of Energy	205,568	3,186	0	82,829	113,239	6,248	66
Department of Health and Human Services	4,246,829	342	0	927,601	1,284,625	2,030,402	3,859
Department of Homeland Security	53,555	22,964	2,500	21,546	6,545	0	0
Department of the Interior	9,365	6,815	0	182	2,312	43	14
Department of Justice	5,884	0	0	1,350	4,534	0	0
Department of Transportation	187,986	78,678	81,041	8,669	2,474	14,243	2,881
Department of Veterans Affairs	195,881	195,881	0	0	0	0	0
Other agencies							
Agency for International Development	8,300	0	0	0	8,300	0	0
Appalachian Regional Commission	175	0	0	175	0	0	0
Environmental Protection Agency	13,485	0	0	6,762	2,922	3,800	0
National Aeronautics and Space Administration	200,231	92,075	343	36,984	64,953	5,878	0
National Science Foundation	458,774	0	0	29,104	398,569	31,100	0
Nuclear Regulatory Commission	876	0	0	876	0	0	0
Social Security Administration	4,560	0	0	0	2,359	2,201	0
Michigan	2,933,169	236,548	0	857,378	1,471,183	361,994	6,066
Departments							
Department of Agriculture	37,328	2,550	0	2,110	32,663	5	0
Department of Commerce	13,638	1,219	0	0	12,419	0	0
Department of Defense	1,326,480	180,788	0	743,051	99,641	303,000	0
Department of Education	7,179	0	0	0	7,179	0	0
Department of Energy	263,937	0	0	49,996	212,262	1,000	679
Department of Health and Human Services	949,441	232	0	38,991	855,263	51,790	3,165

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Homeland Security	1,023	0	0	23	1,000	0	0
Department of the Interior	5,842	5,511	0	171	160	0	0
Department of Justice	1,166	0	0	0	1,166	0	0
Department of Transportation	11,839	43	0	2,921	6,779	0	2,095
Department of Veterans Affairs	46,173	46,173	0	0	0	0	0
Other agencies							
Agency for International Development	8,736	0	0	0	8,736	0	0
Environmental Protection Agency	5,622	0	0	1,172	4,450	0	0
National Aeronautics and Space Administration	38,303	33	0	11,106	27,164	0	0
National Science Foundation	215,369	0	0	7,837	201,206	6,200	126
Nuclear Regulatory Commission	350	0	0	0	350	0	0
Social Security Administration	745	0	0	0	745	0	0
Minnesota	1,752,451	134,399	0	345,691	558,176	692,892	21,293
Departments							
Department of Agriculture	57,088	25,543	0	140	30,533	0	873
Department of Commerce	4,016	0	0	387	3,629	0	0
Department of Defense	767,550	66,579	0	274,407	39,872	386,692	0
Department of Education	4,864	0	0	475	2,568	1,821	0
Department of Energy	51,359	0	0	24,083	20,822	0	6,454
Department of Health and Human Services	709,495	0	0	34,958	366,797	302,288	5,452
Department of Homeland Security	100	0	0	0	100	0	0
Department of the Interior	9,018	3,132	0	0	5,857	0	29
Department of Justice	2,836	0	0	0	336	0	2,500
Department of Transportation	8,631	2	0	1,230	1,482	0	5,916
Department of Veterans Affairs	28,081	28,081	0	0	0	0	0
Other agencies							
Agency for International Development	700	0	0	700	0	0	0
Environmental Protection Agency	13,883	11,059	0	273	2,551	0	0
National Aeronautics and Space Administration	8,399	4	0	3,871	4,524	0	0
National Science Foundation	86,187	0	0	5,122	78,905	2,090	70
Nuclear Regulatory Commission	45	0	0	45	0	0	0
Social Security Administration	200	0	0	0	200	0	0
Mississippi	516,078	251,365	14	44,728	204,538	2,471	12,962
Departments							

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Agriculture	129,520	83,178	0	0	45,812	0	530
Department of Commerce	14,747	67	0	0	14,680	0	0
Department of Defense	167,935	120,877	14	33,903	12,919	221	0
Department of Energy	8,147	251	0	200	7,696	0	0
Department of Health and Human Services	85,228	21	0	961	79,682	2,250	2,314
Department of Homeland Security	4,526	0	0	200	4,326	0	0
Department of the Interior	1,531	1,485	0	0	32	0	14
Department of Transportation	8,339	*	0	0	7,685	0	653
Department of Veterans Affairs	1,021	1,021	0	0	0	0	0
Other agencies							
Agency for International Development	4,492	0	0	0	4,492	0	0
National Aeronautics and Space Administration	54,086	44,074	0	9,464	548	0	0
National Science Foundation	27,057	391	0	0	26,665	0	0
RESTORE Act Centers of Excellence Research Grants Program	9,451	0	0	0	0	0	9,451
Missouri	2,115,583	173,076	723	944,763	927,953	59,846	9,222
Departments							
Department of Agriculture	117,044	73,129	0	732	41,453	1,731	0
Department of Commerce	117	0	0	0	117	0	0
Department of Defense	870,175	51,256	723	762,389	43,644	12,163	0
Department of Education	11,059	0	0	481	6,456	1,943	2,179
Department of Energy	70,161	8	0	49,795	16,036	4,321	0
Department of Health and Human Services	788,934	0	0	28,803	729,765	27,736	2,630
Department of Homeland Security	8,379	8,179	0	200	0	0	0
Department of the Interior	14,152	11,617	0	0	2,522	13	0
Department of Justice	835	0	0	0	835	0	0
Department of Transportation	12,021	256	0	574	6,778	0	4,413
Department of Veterans Affairs	28,629	28,629	0	0	0	0	0
Other agencies							
Agency for International Development	1,397	0	0	0	0	1,397	0
Environmental Protection Agency	7,780	0	0	1,842	5,939	0	0
National Aeronautics and Space Administration	110,158	2	0	98,361	11,795	0	0
National Science Foundation	74,742	0	0	1,586	62,612	10,544	0
Montana	489,365	60,995	0	24,855	398,248	1,416	3,851
Departments							

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Agriculture	34,716	15,342	0	234	19,114	18	9
Department of Commerce	422	0	0	0	422	0	0
Department of Defense	318,225	7,532	0	7,361	303,306	26	0
Department of Education	1,194	0	0	1,000	0	0	194
Department of Energy	6,008	0	0	334	5,540	133	0
Department of Health and Human Services	66,670	27,679	0	7,257	28,975	1,094	1,665
Department of Homeland Security	1,233	0	0	0	1,233	0	0
Department of the Interior	12,196	10,442	0	0	1,719	35	0
Department of Transportation	1,983	*	0	0	0	0	1,983
Other agencies							
National Aeronautics and Space Administration	11,469	1	0	8,669	2,690	110	0
National Science Foundation	35,203	0	0	0	35,203	0	0
Social Security Administration	46	0	0	0	46	0	0
Nebraska	349,212	53,700	0	14,313	255,807	23,377	2,015
Departments							
Department of Agriculture	66,719	35,283	0	650	21,756	9,030	0
Department of Commerce	1,392	0	0	0	1,392	0	0
Department of Defense	51,915	17,987	0	7,453	26,448	28	0
Department of Education	3,255	0	0	1,250	2,005	0	0
Department of Energy	14,322	0	0	450	13,872	0	0
Department of Health and Human Services	146,481	0	0	2,771	128,494	14,319	898
Department of Homeland Security	12,334	0	0	0	12,334	0	0
Department of the Interior	1,109	269	0	0	839	0	0
Department of Justice	62	0	0	0	62	0	0
Department of Transportation	1,937	61	0	271	489	0	1,117
Other agencies							
Agency for International Development	2,270	0	0	0	2,270	0	0
Environmental Protection Agency	142	0	0	142	0	0	0
National Aeronautics and Space Administration	1,001	99	0	53	848	0	0
National Science Foundation	46,273	0	0	1,274	44,999	0	0
Nevada	504,949	49,410	0	350,124	98,583	4,357	2,475
Departments							
Department of Agriculture	10,280	2,002	0	23	7,225	12	1,017
Department of Commerce	6,679	0	0	0	6,679	0	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense	209,945	11,013	0	192,413	6,519	0	0
Department of Education	1,966	0	0	0	0	1,966	0
Department of Energy	150,907	404	0	142,523	7,980	0	0
Department of Health and Human Services	39,395	119	0	3,566	32,853	2,045	811
Department of Homeland Security	2,834	385	0	2,448	0	0	0
Department of the Interior	10,589	6,624	0	1,750	1,722	333	160
Department of Justice	222	0	0	0	222	0	0
Department of Transportation	488	1	0	0	0	0	488
Department of Veterans Affairs	2,128	2,128	0	0	0	0	0
Other agencies							
Environmental Protection Agency	30	0	0	0	30	0	0
National Aeronautics and Space Administration	36,517	26,734	0	6,633	3,151	0	0
National Science Foundation	32,970	0	0	767	32,203	0	0
New Hampshire	577,036	14,355	0	316,304	229,407	15,126	1,844
Departments							
Department of Agriculture	10,058	5,541	0	1,037	3,434	45	0
Department of Commerce	4,095	0	0	0	3,967	128	0
Department of Defense	303,141	5,321	0	277,851	19,722	247	0
Department of Energy	12,033	0	0	2,778	9,188	0	66
Department of Health and Human Services	127,459	0	0	16,310	96,233	13,707	1,209
Department of Homeland Security	380	0	0	380	0	0	0
Department of the Interior	1,485	1,069	0	0	402	0	13
Department of Justice	1,498	0	0	0	1,498	0	0
Department of Transportation	1,315	0	0	303	456	0	556
Department of Veterans Affairs	1,916	1,916	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	83,784	506	0	17,113	66,165	0	0
National Science Foundation	29,776	0	0	531	28,247	998	0
Social Security Administration	95	0	0	0	95	0	0
New Jersey	2,380,226	569,353	126,589	1,012,236	616,638	48,354	7,056
Departments							
Department of Agriculture	9,292	565	0	175	6,449	2,103	0
Department of Commerce	26,982	0	0	25	26,957	0	0
Department of Defense	1,247,152	557,760	45	623,651	59,351	6,344	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Education	1,457	0	0	3	1,002	452	0
Department of Energy	201,429	1	126,544	48,018	26,789	77	0
Department of Health and Human Services	649,114	0	0	292,396	317,408	36,983	2,327
Department of Homeland Security	1,843	0	0	1,343	500	0	0
Department of the Interior	2,881	708	0	746	1,407	0	19
Department of Justice	693	0	0	0	693	0	0
Department of Transportation	29,934	38	0	23,946	1,240	0	4,709
Department of Veterans Affairs	7,449	7,449	0	0	0	0	0
Other agencies							
Agency for Global Media	223	0	0	223	0	0	0
Environmental Protection Agency	3,129	2,804	0	295	30	0	0
National Aeronautics and Space Administration	30,580	28	0	11,905	18,648	0	0
National Science Foundation	164,368	0	0	6,309	155,845	2,214	0
Social Security Administration	3,700	0	0	3,199	322	180	0
New Mexico	3,945,635	957,445	2,066,243	694,534	210,813	15,887	713
Departments							
Department of Agriculture	17,797	7,264	0	0	9,523	1,010	0
Department of Commerce	813	235	0	337	241	0	0
Department of Defense	1,682,822	715,153	291,314	642,908	32,761	686	0
Department of Education	875	0	0	0	875	0	0
Department of Energy	1,967,507	206,783	1,732,134	7,089	21,499	1	0
Department of Health and Human Services	125,814	0	7,769	7,487	96,819	13,200	539
Department of Homeland Security	20,555	16,860	2,858	837	0	0	0
Department of the Interior	3,944	1,536	0	279	1,454	676	0
Department of Transportation	15,449	3,660	1,635	5,525	4,590	0	39
Department of the Treasury	3,000	0	3,000	0	0	0	0
Department of Veterans Affairs	3,973	3,973	0	0	0	0	0
Other agencies							
Environmental Protection Agency	460	0	460	0	0	0	0
National Aeronautics and Space Administration	53,090	1,982	18,956	27,501	4,434	81	135
National Science Foundation	41,420	0	0	2,570	38,616	234	0
Nuclear Regulatory Commission	8,116	0	8,116	0	0	0	0
New York	7,596,467	409,650	586,204	2,029,947	3,676,668	803,653	90,345
Departments							

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Agriculture	74,846	19,412	0	2,404	43,292	9,642	97
Department of Commerce	17,373	0	0	277	14,019	3,076	0
Department of Defense	1,450,660	327,974	0	790,798	254,136	77,152	600
Department of Education	20,594	0	0	1,250	9,216	9,834	294
Department of Energy	1,066,389	34	576,875	377,730	97,176	13,144	1,431
Department of Health and Human Services	4,313,616	0	3,600	771,212	2,794,825	665,980	78,000
Department of Homeland Security	5,744	0	1,270	3,534	890	50	0
Department of the Interior	7,616	5,277	0	338	1,955	0	46
Department of Justice	2,849	0	0	0	2,020	829	0
Department of Transportation	17,498	604	0	5,621	4,340	418	6,515
Department of the Treasury	215	215	0	0	0	0	0
Department of Veterans Affairs	55,908	55,908	0	0	0	0	0
Other agencies							
Agency for Global Media	845	0	0	845	0	0	0
Agency for International Development	15,142	0	0	0	7,942	7,200	0
Appalachian Regional Commission	300	0	0	300	0	0	0
Environmental Protection Agency	3,077	0	0	559	2,234	284	0
National Aeronautics and Space Administration	105,761	20	3,675	58,839	42,714	513	0
National Science Foundation	435,135	207	0	16,236	399,800	15,530	3,362
Nuclear Regulatory Commission	790	0	785	5	0	0	0
Social Security Administration	2,111	0	0	0	2,111	0	0
North Carolina	3,597,951	429,077	22	725,026	1,885,362	545,238	13,226
Departments							
Department of Agriculture	66,494	22,069	0	1,255	40,170	2,750	250
Department of Commerce	10,660	1,788	0	56	8,448	368	0
Department of Defense	406,490	42,919	22	230,354	111,883	19,933	1,380
Department of Education	15,283	0	0	336	10,172	4,776	0
Department of Energy	97,347	112	0	23,694	56,150	17,126	265
Department of Health and Human Services	2,572,876	207,780	0	424,544	1,456,754	478,735	5,063
Department of Homeland Security	11,138	0	0	6,787	4,351	0	0
Department of the Interior	6,645	5,533	0	0	76	1,011	24
Department of Justice	17,610	0	0	0	0	16,610	1,000
Department of Transportation	9,677	2	0	96	4,335	0	5,243
Department of Veterans Affairs	38,752	38,752	0	0	0	0	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Other agencies							
Agency for International Development	9,332	0	0	5,200	1,683	2,449	0
Environmental Protection Agency	132,982	110,118	0	18,458	3,281	1,125	0
National Aeronautics and Space Administration	10,789	5	0	2,941	7,488	355	0
National Science Foundation	191,870	0	0	11,304	180,566	0	0
Nuclear Regulatory Commission	5	0	0	0	5	0	0
North Dakota	174,314	48,447	0	2,441	116,198	3,683	3,545
Departments							
Department of Agriculture	63,112	45,797	0	0	16,835	479	0
Department of Defense	28,374	3	0	866	24,958	48	2,500
Department of Education	1,261	0	0	1,261	0	0	0
Department of Energy	22,825	20	0	250	22,555	0	0
Department of Health and Human Services	26,796	0	0	55	23,390	3,156	195
Department of the Interior	1,650	1,430	0	9	211	0	0
Department of Transportation	6,628	827	0	0	4,950	0	850
Department of Veterans Affairs	369	369	0	0	0	0	0
Other agencies							
Environmental Protection Agency	30	0	0	0	30	0	0
National Aeronautics and Space Administration	747	0	0	0	747	0	0
National Science Foundation	22,522	0	0	0	22,522	0	0
Ohio	5,636,353	1,776,416	9,548	2,031,912	1,089,965	715,360	13,151
Departments							
Department of Agriculture	52,313	12,680	0	2,406	37,228	0	0
Department of Commerce	445	0	0	6	440	0	0
Department of Defense	3,717,813	1,625,453	8,751	1,469,823	184,148	429,637	*
Department of Education	7,539	0	0	1,545	3,567	2,427	0
Department of Energy	61,376	250	797	16,377	37,047	6,904	0
Department of Health and Human Services	1,375,597	18,751	0	401,775	682,849	269,746	2,475
Department of Homeland Security	12,095	9,381	0	2,715	0	0	0
Department of the Interior	5,237	4,575	0	58	520	52	33
Department of Justice	1,373	0	0	0	1,373	0	0
Department of Transportation	25,839	367	0	8,317	5,580	1,037	10,537
Department of Veterans Affairs	49,362	49,362	0	0	0	0	0
Other agencies							

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Agency for Global Media	21	0	0	21	0	0	0
Environmental Protection Agency	68,465	49,997	0	14,475	2,868	1,125	0
National Aeronautics and Space Administration	125,680	5,600	0	111,000	8,178	901	0
National Science Foundation	132,658	0	0	2,854	126,168	3,530	105
Nuclear Regulatory Commission	540	0	0	540	0	0	0
Oklahoma	564,476	157,599	0	80,465	263,857	55,331	7,224
Departments							
Department of Agriculture	39,381	16,709	0	149	22,474	0	49
Department of Commerce	26,538	0	0	0	26,538	0	0
Department of Defense	178,959	89,791	0	55,069	33,318	781	0
Department of Education	2,352	0	0	1,533	773	46	0
Department of Energy	25,947	181	0	8,281	14,204	3,016	265
Department of Health and Human Services	147,291	0	0	3,395	90,525	51,248	2,123
Department of the Interior	30,888	29,751	0	0	1,128	0	9
Department of Transportation	16,565	754	0	9,351	2,862	0	3,598
Department of Veterans Affairs	12,108	12,108	0	0	0	0	0
Other agencies							
Environmental Protection Agency	8,987	6,386	0	0	2,601	0	0
National Aeronautics and Space Administration	32,800	1,919	0	2,412	28,228	240	0
National Science Foundation	42,660	0	0	275	41,206	0	1,179
Oregon	901,774	127,216	0	149,506	593,190	24,233	7,630
Departments							
Department of Agriculture	95,485	59,660	0	2,105	32,272	1,281	165
Department of Commerce	9,805	0	0	25	9,009	0	771
Department of Defense	118,950	596	0	85,359	32,836	159	0
Department of Education	14,752	0	0	2,654	11,248	849	0
Department of Energy	79,096	1	0	20,332	53,080	3,536	2,147
Department of Health and Human Services	395,076	157	0	25,873	353,480	14,531	1,035
Department of Homeland Security	500	0	0	0	500	0	0
Department of the Interior	9,568	9,037	0	0	211	215	103
Department of Transportation	3,506	0	0	97	0	0	3,408
Department of Veterans Affairs	46,232	46,232	0	0	0	0	0
Other agencies							
Environmental Protection Agency	13,802	11,526	0	555	1,722	0	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
National Aeronautics and Space Administration	13,047	7	0	6,408	6,633	0	0
National Science Foundation	101,068	0	0	5,209	92,199	3,661	0
Nuclear Regulatory Commission	888	0	0	888	0	0	0
Pennsylvania	5,082,626	556,224	82,519	1,477,792	2,473,571	481,957	10,564
Departments							
Department of Agriculture	86,792	51,136	0	322	33,825	1,509	0
Department of Commerce	4,466	0	0	0	3,260	1,205	0
Department of Defense	1,545,864	382,981	82,519	591,935	389,407	99,021	0
Department of Education	13,926	0	0	406	4,623	2,097	6,801
Department of Energy	636,640	26,515	0	550,760	59,328	37	0
Department of Health and Human Services	2,326,916	14,323	0	233,911	1,702,284	373,943	2,454
Department of Homeland Security	21,005	16,525	0	3,480	1,001	0	0
Department of the Interior	7,242	4,611	0	239	2,343	27	22
Department of Justice	6,317	1,191	0	0	4,634	493	0
Department of Transportation	44,976	9	0	37,437	5,199	1,530	801
Department of the Treasury	4,627	530	0	4,097	0	0	0
Department of Veterans Affairs	55,294	55,294	0	0	0	0	0
Other agencies							
Agency for International Development	8,264	0	0	0	8,264	0	0
Environmental Protection Agency	2,671	0	0	308	2,363	0	0
National Aeronautics and Space Administration	63,169	3,110	0	40,838	19,000	222	0
National Science Foundation	253,774	0	0	13,630	237,787	1,872	485
Nuclear Regulatory Commission	429	0	0	429	0	0	0
Social Security Administration	254	0	0	0	254	0	0
Rhode Island	927,067	299,477	0	251,096	278,151	92,561	5,782
Departments							
Department of Agriculture	7,080	78	0	0	6,931	71	0
Department of Commerce	22,859	0	0	5	22,805	48	0
Department of Defense	551,462	269,442	0	240,156	37,579	3,684	600
Department of Education	994	0	0	0	994	0	0
Department of Energy	7,107	0	0	1,376	5,300	298	133
Department of Health and Human Services	243,170	0	0	6,922	148,536	86,263	1,449
Department of Homeland Security	1,263	0	0	1,263	0	0	0
Department of Transportation	3,600	0	0	0	0	0	3,600

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Veterans Affairs	20,299	20,299	0	0	0	0	0
Other agencies							
Environmental Protection Agency	9,667	9,657	0	0	0	10	0
National Aeronautics and Space Administration	4,717	1	0	580	3,915	221	0
National Science Foundation	54,849	0	0	793	52,090	1,966	0
South Carolina	3,568,996	202,756	90,792	2,482,946	379,706	403,666	9,130
Departments							
Department of Agriculture	47,690	18,421	0	174	29,095	0	0
Department of Commerce	13,001	6,160	0	0	6,068	80	692
Department of Defense	1,330,635	140,513	17,163	731,700	41,784	399,475	0
Department of Education	284	0	0	0	0	284	0
Department of Energy	86,917	134	73,629	1,739	11,283	0	133
Department of Health and Human Services	1,978,421	4	0	1,747,928	223,143	2,078	5,268
Department of Homeland Security	3,718	2,966	0	752	0	0	0
Department of the Interior	726	453	0	0	255	0	17
Department of Justice	1,953	0	0	0	1,953	0	0
Department of Transportation	4,568	*	0	33	1,515	0	3,020
Department of Veterans Affairs	34,089	34,089	0	0	0	0	0
Other agencies							
Environmental Protection Agency	374	0	0	0	374	0	0
National Aeronautics and Space Administration	5,337	17	0	620	4,700	0	0
National Science Foundation	61,283	0	0	0	59,535	1,748	0
South Dakota	129,373	22,002	0	20,553	42,741	15,962	28,116
Departments							
Department of Agriculture	14,616	4,085	0	233	10,255	0	42
Department of Commerce	50	0	0	0	50	0	0
Department of Defense	18,223	379	0	16,683	1,097	64	0
Department of Energy	28,580	0	0	1,122	2,163	0	25,296
Department of Health and Human Services	30,258	0	0	2,117	12,495	15,456	190
Department of the Interior	62	0	0	0	0	62	0
Department of Justice	612	0	0	0	612	0	0
Department of Transportation	2,587	0	0	0	0	0	2,587
Department of Veterans Affairs	793	793	0	0	0	0	0
Other agencies							

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
National Aeronautics and Space Administration	17,850	16,744	0	399	707	0	0
National Science Foundation	15,741	0	0	0	15,362	379	0
Tennessee	4,041,234	456,318	1,478,085	1,077,883	895,823	124,839	8,286
Departments							
Department of Agriculture	47,473	15,269	0	1,440	30,296	0	468
Department of Commerce	1,209	674	0	0	535	0	0
Department of Defense	924,476	355,617	11,450	473,542	80,929	2,938	0
Department of Education	10,051	0	0	0	10,051	0	0
Department of Energy	1,718,728	20,623	1,455,241	174,920	63,736	504	3,705
Department of Health and Human Services	737,163	320	228	9,449	612,148	112,449	2,568
Department of Homeland Security	36,170	15,931	6,000	11,249	2,990	0	0
Department of the Interior	3,955	3,880	0	0	56	0	19
Department of Justice	680	0	0	0	680	0	0
Department of Transportation	4,427	2	37	753	2,107	0	1,528
Department of Veterans Affairs	32,896	32,896	0	0	0	0	0
Other agencies							
Appalachian Regional Commission	250	0	0	0	250	0	0
Environmental Protection Agency	49,836	0	0	49,806	30	0	0
National Aeronautics and Space Administration	287,411	9,148	0	250,757	27,506	0	0
National Science Foundation	70,381	1,959	0	3,845	64,509	68	0
Nuclear Regulatory Commission	5,128	0	5,128	0	0	0	0
Tennessee Valley Authority	111,000	0	0	102,120	0	8,880	0
Texas	6,248,577	249,976	32,324	3,083,560	2,654,908	192,667	35,141
Departments							
Department of Agriculture	157,399	49,929	0	2,972	96,678	3,448	4,372
Department of Commerce	13,277	0	0	384	12,861	0	31
Department of Defense	2,634,564	135,226	30,052	2,143,987	294,032	29,309	1,958
Department of Education	22,690	0	0	1,745	20,889	57	0
Department of Energy	211,317	25	0	79,897	125,056	5,001	1,338
Department of Health and Human Services	2,183,390	224	0	493,032	1,605,343	80,728	4,063
Department of Homeland Security	15,536	4,982	0	1,901	8,652	0	0
Department of the Interior	8,592	3,685	0	448	4,193	249	17
Department of Justice	4,436	0	0	0	4,436	0	0
Department of Transportation	51,487	1,185	0	8,354	18,115	504	23,329

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Veterans Affairs	53,572	53,572	0	0	0	0	0
Other agencies							
Appalachian Regional Commission	135	0	0	135	0	0	0
Environmental Protection Agency	10,562	0	0	5,012	5,550	0	0
National Aeronautics and Space Administration	461,312	1,148	0	331,657	57,219	71,255	33
National Science Foundation	417,979	0	0	13,979	401,884	2,116	0
Nuclear Regulatory Commission	2,329	0	2,273	56	0	0	0
Utah	4,378,620	390,757	0	3,531,771	449,169	2,009	4,914
Departments							
Department of Agriculture	35,682	25,746	0	978	8,958	0	0
Department of Commerce	837	0	0	0	837	0	0
Department of Defense	3,747,656	296,318	0	3,373,923	77,206	209	0
Department of Education	556	0	0	0	556	0	0
Department of Energy	38,247	0	0	14,009	24,238	0	0
Department of Health and Human Services	294,047	0	0	30,930	260,455	1,607	1,055
Department of Homeland Security	1,100	0	0	888	212	0	0
Department of the Interior	7,512	5,643	0	0	801	193	875
Department of Justice	1,669	0	0	0	1,669	0	0
Department of Transportation	4,411	3	0	1,423	0	0	2,984
Department of Veterans Affairs	61,756	61,756	0	0	0	0	0
Other agencies							
Environmental Protection Agency	10	0	0	10	0	0	0
National Aeronautics and Space Administration	117,532	1,291	0	104,805	11,435	0	0
National Science Foundation	67,458	0	0	4,655	62,803	0	0
Nuclear Regulatory Commission	150	0	0	150	0	0	0
Vermont	288,541	13,298	0	144,717	127,941	922	1,664
Departments							
Department of Agriculture	58,288	3,639	0	294	54,355	0	0
Department of Commerce	1,629	0	0	0	1,629	0	0
Department of Defense	134,624	0	0	132,769	1,678	177	0
Department of Energy	7,165	0	0	2,560	4,605	0	0
Department of Health and Human Services	59,729	0	0	8,328	49,805	584	1,013
Department of Homeland Security	1,686	1,686	0	0	0	0	0
Department of the Interior	2,041	640	0	0	1,391	0	11

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Transportation	640	0	0	0	0	0	640
Department of Veterans Affairs	7,332	7,332	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	703	0	0	416	288	0	0
National Science Foundation	14,352	0	0	0	14,191	161	0
Nuclear Regulatory Commission	350	0	0	350	0	0	0
Virginia	14,998,083	2,762,295	891,309	10,325,772	814,742	187,453	16,513
Departments							
Department of Agriculture	57,992	1,837	0	803	45,636	9,716	0
Department of Commerce	18,201	5,727	0	3,062	9,161	251	0
Department of Defense	11,826,336	2,474,883	572,217	8,592,621	131,777	54,471	368
Department of Education	21,841	0	0	586	8,451	12,556	249
Department of Energy	398,761	5,117	178,813	161,556	48,127	3,943	1,206
Department of Health and Human Services	846,344	194	16,484	396,283	372,803	58,526	2,054
Department of Homeland Security	227,570	59,503	0	151,618	5,890	5,979	4,580
Department of the Interior	68,346	67,601	0	441	199	38	66
Department of Justice	10,299	600	0	1,148	2,137	5,600	813
Department of Transportation	163,084	7,656	73	113,684	17,707	16,787	7,177
Department of the Treasury	19,052	0	0	19,052	0	0	0
Department of Veterans Affairs	21,445	21,445	0	0	0	0	0
Other agencies							
Agency for Global Media	1,152	0	0	1,152	0	0	0
Agency for International Development	7,143	0	0	2,528	4,415	200	0
Appalachian Regional Commission	192	0	0	0	0	192	0
Environmental Protection Agency	22,867	4,673	0	14,933	3,147	115	0
National Aeronautics and Space Administration	948,742	69,259	732	850,648	19,507	8,595	*
National Science Foundation	334,986	43,746	122,990	12,131	145,634	10,484	0
Nuclear Regulatory Commission	677	0	0	527	150	0	0
Social Security Administration	3,054	54	0	3,000	0	0	0
Washington	3,525,570	255,934	672,416	883,648	964,956	734,035	14,581
Departments							
Department of Agriculture	80,319	42,523	0	657	34,506	1,075	1,558
Department of Commerce	54,835	23,287	0	0	31,023	253	273
Department of Defense	1,028,312	114,257	17,496	727,237	103,478	65,844	*

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Education	4,025	0	0	0	3,281	744	0
Department of Energy	700,639	11	636,391	23,209	41,023	4	0
Department of Health and Human Services	1,315,945	4,330	11,436	47,854	593,735	652,187	6,402
Department of Homeland Security	5,708	0	1,000	4,558	150	0	0
Department of the Interior	14,101	8,964	0	65	5,023	0	49
Department of Justice	167	0	0	0	167	0	0
Department of Transportation	13,395	2,356	250	2,343	2,319	0	6,127
Department of Veterans Affairs	58,710	58,710	0	0	0	0	0
Other agencies							
Agency for International Development	9,163	0	0	0	1,500	7,663	0
Environmental Protection Agency	2,074	0	185	383	1,506	0	0
National Aeronautics and Space Administration	77,111	837	0	60,710	15,053	510	0
National Science Foundation	154,701	0	0	16,583	132,194	5,753	172
Nuclear Regulatory Commission	6,366	659	5,657	49	0	0	0
West Virginia	258,246	58,312	0	86,426	104,601	952	7,955
Departments							
Department of Agriculture	43,750	29,473	0	488	13,750	0	40
Department of Commerce	3,737	0	0	0	3,737	0	0
Department of Defense	67,022	164	0	63,935	2,791	132	0
Department of Energy	32,162	184	0	16,197	15,327	320	133
Department of Health and Human Services	79,362	24,009	0	3,748	49,702	0	1,902
Department of Homeland Security	178	178	0	0	0	0	0
Department of the Interior	3,373	2,579	0	0	764	0	29
Department of Justice	1,059	0	0	0	1,059	0	0
Department of Veterans Affairs	1,348	1,348	0	0	0	0	0
Other agencies							
Appalachian Regional Commission	54	0	0	40	14	0	0
Environmental Protection Agency	500	0	0	0	0	500	0
National Aeronautics and Space Administration	2,992	376	0	1,325	1,292	0	0
National Science Foundation	22,565	0	0	550	16,165	0	5,851
Nuclear Regulatory Commission	144	0	0	144	0	0	0
Wisconsin	1,157,865	78,887	0	140,840	885,130	45,094	7,914
Departments							
Department of Agriculture	94,406	48,484	0	881	43,548	1,491	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Commerce	6,278	0	0	362	5,916	0	0
Department of Defense	156,825	353	0	93,242	58,035	5,196	0
Department of Education	9,244	0	0	2,711	6,053	480	0
Department of Energy	100,940	0	0	15,559	79,928	1,721	3,731
Department of Health and Human Services	613,957	13	0	25,377	557,253	29,149	2,165
Department of the Interior	7,512	7,392	0	0	21	62	37
Department of Justice	1,042	0	0	0	1,042	0	0
Department of Transportation	3,336	4	0	0	1,352	0	1,981
Department of Veterans Affairs	22,638	22,638	0	0	0	0	0
Other agencies							
Environmental Protection Agency	2,804	0	0	0	2,804	0	0
National Aeronautics and Space Administration	16,601	4	0	883	15,715	0	0
National Science Foundation	121,461	0	0	1,825	112,643	6,993	0
Social Security Administration	820	0	0	0	820	0	0
Wyoming	76,505	14,326	0	4,185	56,004	248	1,741
Departments							
Department of Agriculture	4,612	7	0	175	4,317	113	0
Department of Commerce	66	0	0	0	66	0	0
Department of Defense	1,404	29	0	1,175	181	19	0
Department of Energy	19,394	0	0	1,443	17,951	0	0
Department of Health and Human Services	10,954	0	0	55	10,595	0	304
Department of the Interior	15,102	14,290	0	0	667	117	28
Department of Justice	649	0	0	0	649	0	0
Department of Transportation	1,949	0	0	182	359	0	1,408
Other agencies							
Environmental Protection Agency	30	0	0	0	30	0	0
National Aeronautics and Space Administration	490	0	0	0	490	0	0
National Science Foundation	21,854	0	0	1,155	20,699	0	0
Outlying areas	162,291	16,182	0	12,663	101,811	21,273	10,362
Departments							
Department of Agriculture	23,805	5,802	0	0	18,003	0	0
Department of Commerce	5,162	0	0	0	4,919	0	242
Department of Defense	23,609	9,370	0	10,885	3,349	5	0
Department of Education	20,164	0	0	287	880	16,630	2,366

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Health and Human Services	48,687	0	0	1,292	43,747	1,125	2,523
Department of Homeland Security	500	0	0	0	500	0	0
Department of the Interior	6,031	519	0	0	475	0	5,037
Department of Transportation	693	0	0	0	499	0	194
Department of Veterans Affairs	491	491	0	0	0	0	0
Other agencies							
Environmental Protection Agency	1,350	0	0	0	0	1,350	0
National Aeronautics and Space Administration	224	0	0	0	224	0	0
National Science Foundation	31,547	0	0	170	29,215	2,162	0
Nuclear Regulatory Commission	29	0	0	29	0	0	0
American Samoa	3,205	0	0	0	3,138	5	61
Departments							
Department of Agriculture	1,927	0	0	0	1,927	0	0
Department of Commerce	61	0	0	0	0	0	61
Department of Defense	1,216	0	0	0	1,211	5	0
Guam	16,262	30	0	6,408	9,770	0	54
Departments							
Department of Agriculture	2,446	*	0	0	2,446	0	0
Department of Commerce	1,509	0	0	0	1,454	0	54
Department of Defense	6,438	30	0	6,408	0	0	0
Department of Health and Human Services	1,904	0	0	0	1,904	0	0
Other agencies							
National Science Foundation	3,967	0	0	0	3,967	0	0
Northern Mariana Islands	4,590	0	0	78	4,482	0	30
Departments							
Department of Agriculture	4,082	0	0	0	4,082	0	0
Department of Commerce	30	0	0	0	0	0	30
Department of Defense	78	0	0	78	0	0	0
Other agencies							
National Science Foundation	400	0	0	0	400	0	0
Puerto Rico	91,915	6,656	0	5,861	72,012	4,637	2,749
Departments							
Department of Agriculture	12,880	5,646	0	0	7,233	0	0
Department of Commerce	3,503	0	0	0	3,465	0	38

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense	6,254	0	0	4,399	1,855	0	0
Department of Health and Human Services	46,449	0	0	1,292	41,551	1,125	2,480
Department of Homeland Security	500	0	0	0	500	0	0
Department of the Interior	821	519	0	0	265	0	37
Department of Transportation	194	0	0	0	0	0	194
Department of Veterans Affairs	491	491	0	0	0	0	0
Other agencies							
Environmental Protection Agency	1,350	0	0	0	0	1,350	0
National Aeronautics and Space Administration	224	0	0	0	224	0	0
National Science Foundation	19,252	0	0	170	16,919	2,162	0
U.S. Virgin Islands	11,419	0	0	0	11,318	0	101
Departments							
Department of Agriculture	2,315	0	0	0	2,315	0	0
Department of Commerce	59	0	0	0	0	0	59
Department of Defense	283	0	0	0	283	0	0
Department of Health and Human Services	335	0	0	0	292	0	43
Department of Transportation	499	0	0	0	499	0	0
Other agencies							
National Science Foundation	7,929	0	0	0	7,929	0	0
Other areas ^c	34,899	9,496	0	315	1,091	16,630	7,366
Departments							
Department of Agriculture	156	156	0	0	0	0	0
Department of Defense	9,340	9,340	0	0	0	0	0
Department of Education	20,164	0	0	287	880	16,630	2,366
Department of the Interior	5,211	0	0	0	211	0	5,000
Other agencies							
Nuclear Regulatory Commission	29	0	0	29	0	0	0
Offices abroad ^d	82,126	37,462	0	34,826	5,688	4,150	0
Departments							
Department of Agriculture	2,249	233	0	0	2,016	0	0
Department of Defense	54,457	26,687	0	27,770	0	0	0
Department of Energy	1	0	0	1	0	0	0
Department of Health and Human Services	5,104	2,568	0	2,536	0	0	0
Department of Homeland Security	2,293	1,895	0	398	0	0	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2023

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of State	6,079	6,079	0	0	0	0	0
Department of Transportation	116	0	0	116	0	0	0
Other agencies							
Agency for Global Media	4,005	0	0	4,005	0	0	0
Agency for International Development	7,822	0	0	0	3,672	4,150	0
Undistributed ^e	5,412,426	3,418,267	14,643	1,963,971	15,544	1	0
Departments							
Department of Defense	5,412,426	3,418,267	14,643	1,963,971	15,544	1	0

* = amount greater than \$0 but less than \$500.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, as well as actual federal performance.^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.^c Other areas includes Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Palmyra Atoll, and Wake Island.^d Offices abroad includes R&D performed or administered in foreign countries by the U.S. government.^e Undistributed includes Department of Defense obligations for which the location of performance is not reported.**Note(s):**

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See technical table A-2 for additional notes associated with the agencies listed in this table.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2023–24.