

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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	4,086,585	1,967,060	608	1,509,290	568,863	22,193	18,572
Departments							
Department of Agriculture	57,226	7,796	0	175	48,329	384	542
Department of Commerce	14,312	3,050	0	0	10,774	250	238
Department of Defense	3,041,448	1,937,219	608	1,059,348	42,370	1,666	237
Department of Education	1,307	0	0	0	402	0	905
Department of Energy	36,551	0	0	24,464	11,992	95	0
Department of Health and Human Services	385,897	169	0	8,614	355,174	13,544	8,396
Department of Homeland Security	8,583	0	0	413	7,821	349	0
Department of the Interior	3,952	3,031	0	0	722	0	199
Department of Justice	1,350	0	0	0	1,350	0	0
Department of Transportation	14,342	31	0	4,139	2,868	0	7,304
Department of Veterans Affairs	13,331	13,331	0	0	0	0	0
Other agencies							
Agency for International Development	5,280	0	0	0	0	5,280	0
Environmental Protection Agency	114	0	0	87	27	0	0
National Aeronautics and Space Administration	442,848	2,434	0	409,253	30,911	0	250
National Science Foundation	57,121	0	0	768	55,729	624	0
Nuclear Regulatory Commission	376	0	0	0	376	0	0
RESTORE Act Centers of Excellence Research Grants Program	500	0	0	0	0	0	500
Social Security Administration	2,047	0	0	2,030	17	0	0
Alaska	272,508	75,226	0	65,177	109,357	15,658	7,090
Departments							
Department of Agriculture	15,090	9,778	0	125	3,765	0	1,423
Department of Commerce	9,424	5,503	0	252	3,036	428	206
Department of Defense	73,064	2,942	0	56,697	12,371	1,055	0
Department of Energy	6,060	0	0	2,303	1,332	2,201	224
Department of Health and Human Services	21,697	152	0	0	12,889	6,960	1,696
Department of Homeland Security	176	0	0	176	0	0	0
Department of the Interior	61,847	56,841	0	697	2,640	247	1,422
Department of Justice	2,000	0	0	0	2,000	0	0
Department of Transportation	7,172	0	0	79	4,975	0	2,118
Other agencies							
Environmental Protection Agency	725	0	0	725	0	0	0
National Aeronautics and Space Administration	24,969	11	0	3,155	21,803	0	0
National Science Foundation	50,284	0	0	969	44,548	4,767	0
Arizona	2,387,850	135,318	82,933	1,460,382	593,475	104,472	11,270
Departments							
Department of Agriculture	31,163	22,508	0	182	8,289	19	166
Department of Commerce	4,303	0	0	320	3,983	0	0
Department of Defense	1,536,478	60,472	0	1,391,975	77,924	0	6,107

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Department of Education	3,268	0	0	0	2,373	896	0
Department of Energy	25,393	70	0	10,082	15,234	7	0
Department of Health and Human Services	390,181	7,751	0	27,206	269,485	83,112	2,625
Department of Homeland Security	5,066	0	0	633	4,433	0	0
Department of the Interior	34,351	34,094	0	11	110	3	134
Department of Justice	1,432	0	0	0	1,432	0	0
Department of Transportation	8,160	0	0	5,458	463	0	2,238
Department of Veterans Affairs	7,844	7,844	0	0	0	0	0
Other agencies							
Agency for International Development	1,000	0	0	0	1,000	0	0
Environmental Protection Agency	8	0	0	8	0	0	0
National Aeronautics and Space Administration	106,572	2,578	0	19,243	70,686	14,065	0
National Science Foundation	232,481	0	82,933	5,264	137,914	6,370	0
Social Security Administration	150	0	0	0	150	0	0
Arkansas	268,319	52,562	0	60,748	126,610	13,661	14,738
Departments							
Department of Agriculture	50,301	29,680	0	1,013	19,161	0	447
Department of Defense	58,239	108	0	43,839	12,539	893	860
Department of Energy	4,146	0	0	606	3,491	0	48
Department of Health and Human Services	101,024	0	0	14,539	70,590	12,768	3,127
Department of the Interior	8,024	7,940	0	0	0	0	84
Department of Justice	246	0	0	0	246	0	0
Department of Transportation	2,620	0	0	0	200	0	2,420
Department of Veterans Affairs	14,833	14,833	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	1,099	1	0	219	879	0	0
National Science Foundation	27,786	0	0	532	19,504	0	7,751
California	23,272,011	2,530,252	5,428,274	8,043,185	5,973,327	1,223,029	73,944
Departments							
Department of Agriculture	160,025	95,102	0	6,879	56,905	789	350
Department of Commerce	37,139	849	0	1,235	30,799	4,017	240
Department of Defense	9,144,281	2,030,596	724,538	5,656,376	600,050	130,693	2,029
Department of Education	93,684	0	0	5,993	10,371	55,496	21,824
Department of Energy	2,810,097	802	2,348,199	257,174	178,496	25,044	381
Department of Health and Human Services	6,201,910	162	24,398	1,225,428	4,013,865	907,970	30,086
Department of Homeland Security	44,302	7,826	13,270	20,708	400	2,098	0
Department of the Interior	70,910	56,024	49	1,381	11,803	685	969
Department of Justice	5,647	0	0	0	2,800	2,847	0
Department of Transportation	34,077	412	0	17,882	3,296	114	12,374
Department of the Treasury	3,500	0	2,900	600	0	0	0
Department of Veterans Affairs	279,542	279,542	0	0	0	0	0

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Other agencies							
Agency for Global Media	457	43	0	414	0	0	0
Agency for International Development	7,195	0	0	0	6,795	400	0
Environmental Protection Agency	18,461	0	10	10,364	8,087	0	0
National Aeronautics and Space Administration	3,466,068	41,281	2,314,397	788,131	278,683	38,082	5,494
National Science Foundation	892,725	17,616	186	50,541	769,434	54,751	196
Nuclear Regulatory Commission	1,249	0	326	79	800	44	0
Social Security Administration	743	0	0	0	743	0	0
Colorado	4,638,849	426,334	541,731	2,538,031	1,009,654	111,555	11,543
Departments							
Department of Agriculture	61,175	40,614	0	531	19,453	577	0
Department of Commerce	214,489	136,601	6,787	437	70,460	204	0
Department of Defense	2,327,477	134,167	15,650	2,105,731	63,518	8,401	11
Department of Education	4,002	0	0	0	969	3,033	0
Department of Energy	511,241	750	410,136	47,565	43,131	9,052	608
Department of Health and Human Services	570,677	1,994	0	107,119	415,896	38,630	7,039
Department of Homeland Security	2,957	428	0	2,474	55	0	0
Department of the Interior	77,736	69,768	0	2,252	5,445	246	25
Department of Justice	1,332	0	0	0	1,332	0	0
Department of Transportation	14,629	2,328	0	3,417	5,024	0	3,860
Department of Veterans Affairs	30,449	30,449	0	0	0	0	0
Other agencies							
Environmental Protection Agency	11,004	1,627	0	1,440	4,692	3,246	0
National Aeronautics and Space Administration	465,659	6,020	0	258,387	197,339	3,912	0
National Science Foundation	345,622	1,588	109,159	8,679	181,941	44,255	0
Nuclear Regulatory Commission	400	0	0	0	400	0	0
Connecticut	2,642,331	57,741	5,453	1,705,162	819,440	12,946	41,588
Departments							
Department of Agriculture	17,004	2,190	0	363	11,136	450	2,865
Department of Commerce	7,127	0	0	13	2,885	4,229	0
Department of Defense	1,581,930	12,620	0	1,524,714	43,851	745	0
Department of Education	8,262	0	0	1,034	7,229	0	0
Department of Energy	51,016	0	5,453	30,582	14,982	0	0
Department of Health and Human Services	732,294	0	0	14,949	673,775	6,512	37,058
Department of Homeland Security	4,389	0	0	4,389	0	0	0
Department of the Interior	1,126	587	0	55	387	0	97
Department of Transportation	5,316	0	0	3,672	75	0	1,568
Department of Veterans Affairs	42,344	42,344	0	0	0	0	0
Other agencies							
Agency for International Development	1,250	0	0	0	1,250	0	0
Environmental Protection Agency	203	0	0	203	0	0	0

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National Aeronautics and Space Administration	127,149	0	0	123,358	3,791	0	0
National Science Foundation	62,920	0	0	1,831	60,080	1,010	0
Delaware	340,648	28,757	0	131,264	162,123	16,444	2,060
Departments							
Department of Agriculture	12,408	1,923	0	166	10,319	0	0
Department of Commerce	16,562	73	0	145	16,344	0	0
Department of Defense	156,085	26,019	0	99,336	28,148	1,571	1,011
Department of Education	2,043	0	0	0	2,043	0	0
Department of Energy	17,975	0	0	5,276	12,681	0	18
Department of Health and Human Services	83,973	0	0	21,218	51,118	11,499	138
Department of Homeland Security	122	0	0	122	0	0	0
Department of the Interior	1,382	743	0	0	639	0	0
Department of Transportation	1,008	0	0	0	115	0	893
Other agencies							
Environmental Protection Agency	114	0	0	114	0	0	0
National Aeronautics and Space Administration	9,584	0	0	4,118	3,416	2,051	0
National Science Foundation	39,391	0	0	767	37,301	1,322	0
District of Columbia	33,916,947	31,563,916	137,557	877,503	271,082	1,059,234	7,655
Departments							
Department of Agriculture	342,521	337,146	0	750	3,172	1,453	0
Department of Commerce	41,261	28,847	0	10,431	1,347	637	0
Department of Defense	3,569,978	2,721,414	10,101	589,331	39,372	209,759	0
Department of Education	12,063	0	0	1,754	3,028	6,220	1,060
Department of Energy	692,580	668,359	5,411	6,226	3,023	9,561	0
Department of Health and Human Services	26,085,754	25,772,092	0	24,991	151,412	131,794	5,464
Department of Homeland Security	31,733	24,854	3,249	3,138	0	492	0
Department of the Interior	20,100	19,721	0	53	43	283	0
Department of Justice	21,161	6,971	0	7,488	3,000	3,701	0
Department of Labor	3,698	2,689	0	1,009	0	0	0
Department of State	58,000	58,000	0	0	0	0	0
Department of Transportation	163,645	68,495	553	80,620	605	12,373	999
Department of the Treasury	2,000	2,000	0	0	0	0	0
Department of Veterans Affairs	124,348	124,348	0	0	0	0	0
Other agencies							
Agency for Global Media	5,536	520	0	5,016	0	0	0
Agency for International Development	28,023	17,752	0	6,459	0	3,812	0
Appalachian Regional Commission	64	0	0	0	0	64	0
Environmental Protection Agency	107,549	54,331	0	52,301	0	917	0
Federal Trade Commission	2,713	2,713	0	0	0	0	0
Library of Congress	3,055	3,055	0	0	0	0	0
National Aeronautics and Space Administration	1,531,141	1,373,541	0	55,689	22,296	79,616	0

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National Science Foundation	242,323	2,759	118,242	3,850	43,759	73,581	132
Nuclear Regulatory Commission	302	300	0	2	0	0	0
Patient-Centered Outcomes Research Trust Fund	521,671	0	0	0	0	521,671	0
Postal Service	13,860	0	0	13,860	0	0	0
Smithsonian Institution	227,400	227,400	0	0	0	0	0
Social Security Administration	64,471	46,609	0	14,536	25	3,301	0
Florida	4,249,966	799,142	113	2,099,511	1,138,687	195,545	16,969
Departments							
Department of Agriculture	91,271	38,477	0	1,100	50,840	854	0
Department of Commerce	37,788	14,260	0	835	20,324	1,224	1,145
Department of Defense	2,689,320	638,347	0	1,883,469	115,387	51,014	1,103
Department of Education	13,552	0	0	0	11,181	0	2,371
Department of Energy	38,049	1	0	10,119	27,576	1	353
Department of Health and Human Services	854,924	392	0	59,326	656,579	138,355	274
Department of Homeland Security	8,097	624	113	7,080	280	0	0
Department of the Interior	58,375	49,348	0	1,836	4,989	2,004	197
Department of Justice	2,533	0	0	0	2,533	0	0
Department of Transportation	24,555	526	0	3,022	10,594	0	10,413
Department of Veterans Affairs	43,504	43,504	0	0	0	0	0
Other agencies							
Agency for International Development	4,627	0	0	0	4,627	0	0
Environmental Protection Agency	10,776	9,923	0	826	28	0	0
National Aeronautics and Space Administration	164,422	3,740	0	125,594	33,960	1,124	3
National Science Foundation	207,850	0	0	6,305	199,465	969	1,110
Nuclear Regulatory Commission	200	0	0	0	200	0	0
Social Security Administration	125	0	0	0	125	0	0
Georgia	1,821,438	225,983	3,697	239,405	1,291,590	29,422	31,340
Departments							
Department of Agriculture	109,429	61,628	0	103	47,617	75	6
Department of Commerce	9,421	0	0	1,243	8,178	0	0
Department of Defense	460,956	94,783	15	135,195	229,490	1,473	0
Department of Education	3,115	0	0	0	2,705	409	0
Department of Energy	48,978	2	0	9,636	25,110	13,863	366
Department of Health and Human Services	910,819	18,725	0	59,483	810,341	4,906	17,364
Department of Homeland Security	5,023	1,026	3,683	215	100	0	0
Department of the Interior	3,351	2,716	0	7	586	42	0
Department of Justice	1,196	0	0	0	1,196	0	0
Department of Transportation	33,759	1	0	17,981	2,242	0	13,535
Department of Veterans Affairs	39,282	39,282	0	0	0	0	0
Other agencies							
Agency for International Development	8,000	0	0	0	3,000	5,000	0

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Environmental Protection Agency	10,916	7,320	0	157	3,439	0	0
National Aeronautics and Space Administration	28,628	499	0	5,842	22,287	0	0
National Science Foundation	148,098	0	0	9,545	135,263	3,222	69
Nuclear Regulatory Commission	431	0	0	0	0	431	0
Social Security Administration	37	0	0	0	37	0	0
Hawaii	371,193	62,910	0	133,668	144,109	23,115	7,390
Departments							
Department of Agriculture	24,726	17,976	0	764	4,475	1,511	0
Department of Commerce	5,453	3,956	0	535	962	0	0
Department of Defense	189,922	30,989	0	119,080	23,533	11,225	5,095
Department of Energy	8,446	0	0	4,896	3,486	64	0
Department of Health and Human Services	60,062	0	0	5,249	49,097	4,777	940
Department of Homeland Security	994	0	0	994	0	0	0
Department of the Interior	7,519	7,504	0	0	0	15	0
Department of Transportation	1,510	0	0	0	400	0	1,110
Department of Veterans Affairs	2,096	2,096	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	29,896	389	0	931	23,526	5,049	1
National Science Foundation	40,569	0	0	1,219	38,631	474	245
Idaho	702,352	65,585	491,824	69,275	62,207	893	12,567
Departments							
Department of Agriculture	38,496	21,756	0	13	16,618	109	0
Department of Defense	126,682	31,283	34,435	55,106	3,129	0	2,729
Department of Energy	461,377	270	448,543	9,373	3,131	33	26
Department of Health and Human Services	23,642	0	0	1,172	15,377	751	6,342
Department of Homeland Security	3,928	0	1,000	2,928	0	0	0
Department of the Interior	11,201	10,329	0	25	847	0	0
Department of Transportation	1,134	0	0	65	0	0	1,069
Department of Veterans Affairs	1,948	1,948	0	0	0	0	0
Other agencies							
Environmental Protection Agency	215	0	215	0	0	0	0
National Aeronautics and Space Administration	3,312	0	250	348	2,713	0	0
National Science Foundation	22,000	0	0	246	19,354	0	2,400
Nuclear Regulatory Commission	8,419	0	7,382	0	1,037	0	0
Illinois	3,468,724	266,842	1,113,441	350,975	1,575,978	146,398	15,090
Departments							
Department of Agriculture	64,980	44,634	0	1,256	18,680	411	0
Department of Commerce	8,060	0	0	6,430	1,430	200	0
Department of Defense	471,169	148,967	969	192,708	115,035	13,489	0
Department of Education	13,448	0	0	2,000	2,626	1,689	7,134
Department of Energy	1,258,264	154	1,099,433	31,463	104,932	22,060	222

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Department of Health and Human Services	1,208,255	0	4,228	89,155	1,017,790	95,088	1,993
Department of Homeland Security	15,614	9,764	5,795	55	0	0	0
Department of the Interior	7,890	7,589	0	194	107	0	0
Department of Justice	3,110	0	0	0	626	2,484	0
Department of Transportation	14,197	0	445	2,987	3,138	1,886	5,741
Department of Veterans Affairs	53,756	53,756	0	0	0	0	0
Other agencies							
Agency for International Development	1,000	0	0	0	1,000	0	0
Appalachian Regional Commission	25	0	0	0	0	25	0
Environmental Protection Agency	2,306	0	430	775	1,101	0	0
National Aeronautics and Space Administration	41,164	1,977	449	13,042	24,548	1,148	0
National Science Foundation	302,831	0	0	10,434	284,757	7,640	0
Nuclear Regulatory Commission	2,404	0	1,693	409	25	278	0
Social Security Administration	250	0	0	66	184	0	0
Indiana	1,277,050	326,926	5	276,340	660,168	1,466	12,144
Departments							
Department of Agriculture	33,693	7,024	0	1,010	25,445	50	165
Department of Commerce	7,822	0	0	0	7,822	0	0
Department of Defense	618,469	284,105	0	247,383	86,591	340	50
Department of Education	2,479	0	0	0	2,479	0	0
Department of Energy	35,861	0	0	5,521	30,186	154	0
Department of Health and Human Services	361,163	0	0	8,411	344,071	670	8,011
Department of Homeland Security	255	0	5	0	250	0	0
Department of the Interior	9,221	7,841	0	0	1,380	0	0
Department of Transportation	4,658	0	0	740	0	0	3,918
Department of Veterans Affairs	27,682	27,682	0	0	0	0	0
Other agencies							
Agency for International Development	2,190	0	0	0	2,190	0	0
Environmental Protection Agency	862	0	0	36	826	0	0
National Aeronautics and Space Administration	19,769	274	0	8,095	11,274	126	0
National Science Foundation	151,918	0	0	4,815	146,976	126	0
Nuclear Regulatory Commission	1,009	0	0	329	680	0	0
Iowa	760,960	91,346	32,616	193,452	425,588	2,020	15,938
Departments							
Department of Agriculture	85,612	60,937	0	825	23,124	720	6
Department of Commerce	238	0	0	238	0	0	0
Department of Defense	201,554	551	0	185,010	15,993	0	0
Department of Energy	48,501	0	32,616	200	15,621	0	64
Department of Health and Human Services	217,244	0	0	5,005	200,839	1,300	10,100

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Department of Homeland Security	250	0	0	0	250	0	0
Department of the Interior	1,076	1,076	0	0	0	0	0
Department of Transportation	16,384	0	0	475	10,140	0	5,769
Department of Veterans Affairs	28,781	28,781	0	0	0	0	0
Other agencies							
Environmental Protection Agency	5,210	0	0	151	5,058	0	0
National Aeronautics and Space Administration	108,293	0	0	524	107,770	0	0
National Science Foundation	47,818	0	0	1,024	46,794	0	0
Kansas	445,052	149,333	0	21,219	264,257	8,675	1,567
Departments							
Department of Agriculture	163,811	142,197	0	0	21,535	0	79
Department of Commerce	6,773	0	0	0	6,773	0	0
Department of Defense	61,836	1,464	0	5,266	55,107	0	0
Department of Education	6,667	0	0	0	6,667	0	0
Department of Energy	10,065	0	0	1,942	5,764	2,359	0
Department of Health and Human Services	127,810	0	0	6,697	120,670	251	193
Department of Homeland Security	200	0	0	0	200	0	0
Department of the Interior	5,862	5,062	0	0	801	0	0
Department of Transportation	3,242	0	0	820	1,230	0	1,193
Department of Veterans Affairs	492	492	0	0	0	0	0
Other agencies							
Agency for International Development	4,800	0	0	0	4,800	0	0
National Aeronautics and Space Administration	14,728	119	0	5,964	8,543	0	102
National Science Foundation	38,765	0	0	532	32,169	6,064	0
Kentucky	413,477	49,109	0	36,794	311,024	7,046	9,504
Departments							
Department of Agriculture	30,308	5,039	0	756	24,498	0	15
Department of Commerce	125	0	0	0	125	0	0
Department of Defense	30,158	3,730	0	11,272	15,156	0	0
Department of Education	6,793	0	0	0	873	5,920	0
Department of Energy	44,593	31,048	0	3,961	9,167	322	95
Department of Health and Human Services	248,409	0	0	13,615	228,042	804	5,947
Department of the Interior	2,236	1,513	0	0	723	0	0
Department of Transportation	3,944	0	0	496	0	0	3,447
Department of Veterans Affairs	7,779	7,779	0	0	0	0	0
Other agencies							
Environmental Protection Agency	27	0	0	0	27	0	0
National Aeronautics and Space Administration	6,890	0	0	5,417	1,473	0	0
National Science Foundation	32,215	0	0	1,276	30,939	0	0
Louisiana	512,246	60,230	0	124,622	301,852	6,572	18,970
Departments							

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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	54,744	34,426	0	820	19,498	0	0
Department of Commerce	2,505	0	0	0	2,505	0	0
Department of Defense	117,749	1,015	0	106,540	9,155	690	349
Department of Education	3,298	0	0	0	2,746	0	552
Department of Energy	8,964	292	0	*	8,493	99	79
Department of Health and Human Services	227,508	854	0	7,592	205,310	2,103	11,648
Department of the Interior	24,231	17,658	0	2,493	3,374	142	564
Department of Transportation	5,027	0	0	0	502	0	4,525
Department of Veterans Affairs	5,984	5,984	0	0	0	0	0
Other agencies							
Environmental Protection Agency	2,814	0	0	2,814	0	0	0
National Aeronautics and Space Administration	5,753	0	0	2,207	2,925	19	602
National Science Foundation	53,468	0	0	2,156	47,143	3,519	649
Nuclear Regulatory Commission	200	0	0	0	200	0	0
Maine	229,928	13,921	5	28,850	70,300	109,233	7,620
Departments							
Department of Agriculture	20,588	8,565	0	1,081	10,443	500	0
Department of Commerce	6,010	192	0	147	3,759	1,912	0
Department of Defense	36,977	2,496	5	16,372	18,046	57	0
Department of Energy	991	0	0	543	353	95	0
Department of Health and Human Services	115,055	0	0	2,171	7,279	100,265	5,339
Department of the Interior	3,441	2,122	0	0	0	949	371
Department of Transportation	1,911	0	0	0	0	0	1,911
Department of Veterans Affairs	170	170	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	10,584	376	0	8,048	1,387	773	0
National Science Foundation	34,151	0	0	437	29,032	4,682	0
Nuclear Regulatory Commission	51	0	0	51	0	0	0
Maryland	20,258,939	12,684,205	687,893	3,743,892	2,716,237	405,861	20,850
Departments							
Department of Agriculture	207,627	186,154	0	1,348	19,675	450	0
Department of Commerce	1,250,090	1,170,990	13,058	43,976	20,919	1,147	0
Department of Defense	5,472,538	2,707,309	21,007	1,822,024	635,673	286,011	514
Department of Education	12,263	0	0	4,981	4,520	2,761	0
Department of Energy	101,971	44,357	0	32,892	23,680	94	949
Department of Health and Human Services	11,012,733	8,468,516	644,439	655,147	1,143,867	84,569	16,194
Department of Homeland Security	21,667	4,055	9,388	5,190	2,648	385	0
Department of the Interior	44,574	43,353	0	516	308	141	255
Department of Justice	4,640	830	0	1,750	531	1,529	0
Department of Transportation	20,872	4,457	0	8,531	1,946	3,000	2,938
Department of the Treasury	1,010	500	0	0	0	510	0
Department of Veterans Affairs	30,638	30,638	0	0	0	0	0
Other agencies							

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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 International Development	24,818	4,077	0	4,700	0	16,040	0
Consumer Product Safety Commission	165	165	0	0	0	0	0
Environmental Protection Agency	7,419	0	0	5,934	1,486	0	0
National Aeronautics and Space Administration	1,668,193	13,149	0	922,916	730,257	1,870	0
National Science Foundation	372,397	4,113	0	230,228	130,703	7,352	0
Nuclear Regulatory Commission	3,422	738	0	2,684	0	0	0
Social Security Administration	1,901	803	0	1,074	24	0	0
Massachusetts	8,495,312	644,127	1,353,857	2,237,060	2,122,437	2,131,202	6,629
Departments							
Department of Agriculture	41,794	9,403	0	674	28,635	3,073	9
Department of Commerce	42,889	10,551	0	11,413	20,503	412	10
Department of Defense	3,441,904	215,730	1,274,305	1,438,062	361,668	152,138	0
Department of Education	18,597	0	0	250	6,622	11,409	317
Department of Energy	177,511	2,315	0	71,312	94,441	8,585	858
Department of Health and Human Services	3,638,827	0	0	600,396	1,136,152	1,899,560	2,719
Department of Homeland Security	39,749	8,530	2,573	28,646	0	0	0
Department of the Interior	16,677	14,082	0	163	2,035	113	284
Department of Justice	1,632	0	0	595	1,037	0	0
Department of Transportation	216,545	114,529	76,978	18,566	3,405	634	2,433
Department of Veterans Affairs	169,031	169,031	0	0	0	0	0
Other agencies							
Agency for International Development	4,845	0	0	0	2,750	2,095	0
Environmental Protection Agency	19,820	1,789	0	6,483	5,098	6,450	0
National Aeronautics and Space Administration	202,476	98,167	0	29,188	72,104	3,017	0
National Science Foundation	459,686	0	0	30,970	386,800	41,916	0
Nuclear Regulatory Commission	743	0	0	343	400	0	0
Social Security Administration	2,585	0	0	0	787	1,799	0
Michigan	2,389,976	401,393	0	499,795	1,304,944	179,807	4,036
Departments							
Department of Agriculture	29,535	2,036	0	1,599	25,787	0	113
Department of Commerce	8,417	879	0	200	7,338	0	0
Department of Defense	930,149	341,922	0	386,740	81,991	119,496	0
Department of Education	8,503	0	0	1,000	6,262	1,242	0
Department of Energy	179,997	0	0	42,792	136,490	715	0
Department of Health and Human Services	919,445	218	0	48,535	810,979	58,186	1,527
Department of Homeland Security	1,370	0	0	1,020	350	0	0
Department of the Interior	11,276	11,230	0	0	46	0	0
Department of Justice	3,018	0	0	0	3,018	0	0
Department of Transportation	9,160	0	0	4,740	2,024	0	2,395
Department of Veterans Affairs	45,091	45,091	0	0	0	0	0
Other agencies							

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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 International Development	8,259	0	0	0	8,259	0	0
Environmental Protection Agency	1,724	0	0	378	1,346	0	0
National Aeronautics and Space Administration	45,338	17	0	6,692	38,546	82	*
National Science Foundation	187,894	0	0	6,099	181,707	87	0
Nuclear Regulatory Commission	632	0	0	0	632	0	0
Social Security Administration	168	0	0	0	168	0	0
Minnesota	1,239,047	73,449	0	226,291	598,213	313,761	27,332
Departments							
Department of Agriculture	51,761	25,410	0	1,125	24,250	0	976
Department of Commerce	10,244	0	0	8,918	1,326	0	0
Department of Defense	203,777	3,647	0	160,244	27,550	12,336	0
Department of Education	3,830	0	0	0	3,830	0	0
Department of Energy	29,649	0	0	3,801	19,972	5,876	0
Department of Health and Human Services	786,531	0	0	39,232	433,927	292,003	21,369
Department of Homeland Security	96	0	0	96	0	0	0
Department of the Interior	9,564	6,007	0	0	3,383	0	174
Department of Justice	475	0	0	0	0	475	0
Department of Transportation	9,326	0	0	4,089	0	494	4,743
Department of Veterans Affairs	28,299	28,299	0	0	0	0	0
Other agencies							
Agency for International Development	608	0	0	608	0	0	0
Environmental Protection Agency	11,155	10,085	0	253	817	0	0
National Aeronautics and Space Administration	9,171	1	0	2,176	6,995	0	0
National Science Foundation	84,378	0	0	5,716	76,014	2,577	70
Nuclear Regulatory Commission	34	0	0	34	0	0	0
Social Security Administration	150	0	0	0	150	0	0
Mississippi	1,149,978	589,504	0	385,154	171,928	30	3,363
Departments							
Department of Agriculture	124,551	79,822	0	0	44,135	30	563
Department of Commerce	18,373	187	0	2,000	16,186	0	0
Department of Defense	823,935	444,683	0	369,842	9,411	0	0
Department of Education	448	0	0	0	448	0	0
Department of Energy	2,898	320	0	12	2,566	0	0
Department of Health and Human Services	69,621	0	0	1,826	66,595	0	1,199
Department of Homeland Security	15,982	11,783	0	200	3,999	0	0
Department of the Interior	3,669	3,373	0	0	211	0	84
Department of Justice	432	0	0	0	432	0	0
Department of Transportation	4,646	0	0	0	3,130	0	1,516
Department of Veterans Affairs	913	913	0	0	0	0	0
Other agencies							
Agency for International Development	3,000	0	0	0	3,000	0	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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	60,898	48,422	0	11,203	1,272	0	*
National Science Foundation	20,542	0	0	0	20,542	0	0
Nuclear Regulatory Commission	71	0	0	71	0	0	0
Missouri	1,837,946	137,041	0	723,113	908,021	55,695	14,076
Departments							
Department of Agriculture	63,678	31,556	0	0	29,598	2,524	0
Department of Commerce	1,510	1,010	0	0	500	0	0
Department of Defense	687,439	53,618	0	567,445	56,796	9,579	0
Department of Education	11,667	0	0	0	11,667	0	0
Department of Energy	85,211	1	0	61,046	15,093	9,071	0
Department of Health and Human Services	788,880	0	0	43,086	715,024	21,602	9,167
Department of Homeland Security	6,039	5,773	0	104	0	0	162
Department of the Interior	25,680	24,187	0	0	1,474	19	0
Department of Justice	573	0	0	0	573	0	0
Department of Transportation	13,642	121	0	8,673	100	0	4,748
Department of Veterans Affairs	20,774	20,774	0	0	0	0	0
Other agencies							
Agency for International Development	4,941	0	0	0	0	4,941	0
Environmental Protection Agency	3,217	0	0	2,375	842	0	0
National Aeronautics and Space Administration	52,566	2	0	38,520	14,044	0	0
National Science Foundation	72,130	0	0	1,863	62,309	7,958	0
Montana	291,606	94,038	0	40,444	146,125	3,085	7,914
Departments							
Department of Agriculture	30,962	16,129	0	133	14,701	0	0
Department of Commerce	520	0	0	0	520	0	0
Department of Defense	67,433	361	0	11,214	55,658	200	0
Department of Education	225	0	0	0	0	0	225
Department of Energy	8,339	0	0	3,424	4,915	0	0
Department of Health and Human Services	102,353	56,276	0	1,539	36,019	2,800	5,719
Department of Homeland Security	15,470	0	0	15,470	0	0	0
Department of the Interior	23,113	21,272	0	85	1,721	35	0
Department of Transportation	1,969	0	0	0	0	0	1,969
Other agencies							
National Aeronautics and Space Administration	10,906	0	0	7,202	3,654	50	0
National Science Foundation	30,315	0	0	1,378	28,937	0	0
Nebraska	325,071	52,110	11,354	9,971	221,283	25,986	4,366
Departments							
Department of Agriculture	54,566	30,218	0	175	17,173	7,000	0
Department of Commerce	368	0	0	0	368	0	0
Department of Defense	29,814	8,262	0	6,319	15,233	0	0
Department of Education	2,400	0	0	0	1,488	0	912

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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 Energy	7,298	0	0	0	7,298	0	0
Department of Health and Human Services	151,915	0	0	2,429	129,948	18,986	552
Department of Homeland Security	11,354	0	11,354	0	0	0	0
Department of the Interior	1,004	547	0	27	430	0	0
Department of Justice	290	0	0	0	290	0	0
Department of Transportation	3,579	0	0	500	177	0	2,902
Department of Veterans Affairs	10,776	10,776	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	3,510	2,307	0	69	1,134	0	0
National Science Foundation	48,196	0	0	453	47,743	0	0
Nevada	519,765	62,678	0	348,937	93,643	7,821	6,686
Departments							
Department of Agriculture	7,516	1,705	0	94	5,718	0	0
Department of Commerce	3,015	0	0	15	3,000	0	0
Department of Defense	176,001	7,026	0	163,458	5,518	0	0
Department of Energy	179,652	1,469	0	169,315	8,117	750	0
Department of Health and Human Services	47,044	0	0	1,470	37,894	1,920	5,761
Department of Homeland Security	1,383	400	0	983	0	0	0
Department of the Interior	12,780	11,409	0	117	1,179	41	34
Department of Justice	4,800	0	0	0	0	4,800	0
Department of Transportation	992	0	0	100	0	0	892
Department of Veterans Affairs	1,068	1,068	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	55,645	39,601	0	13,386	2,659	0	0
National Science Foundation	29,418	0	0	0	29,108	310	0
Nuclear Regulatory Commission	450	0	0	0	450	0	0
New Hampshire	444,718	11,450	0	234,594	186,122	11,893	658
Departments							
Department of Agriculture	10,224	5,320	0	87	4,700	116	0
Department of Commerce	12,632	0	0	0	11,632	1,000	0
Department of Defense	218,708	3,393	0	198,138	17,177	0	0
Department of Education	2,032	0	0	0	2,032	0	0
Department of Energy	7,331	0	0	3,964	3,287	0	79
Department of Health and Human Services	119,975	0	0	17,844	93,376	8,588	167
Department of Homeland Security	330	0	0	330	0	0	0
Department of the Interior	3,077	2,209	0	93	696	0	79
Department of Justice	2,742	0	0	0	2,742	0	0
Department of Transportation	333	0	0	0	0	0	333
Department of Veterans Affairs	162	162	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	32,160	366	0	13,354	18,439	0	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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 Science Foundation	35,012	0	0	783	32,040	2,189	0
New Jersey	3,386,124	707,898	105,523	1,894,399	546,847	108,708	22,748
Departments							
Department of Agriculture	9,464	141	0	1,040	8,124	84	75
Department of Commerce	12,838	0	0	0	12,838	0	0
Department of Defense	2,427,421	695,973	0	1,665,713	60,703	5,032	0
Department of Education	15,611	0	0	12,364	1,252	1,995	0
Department of Energy	164,103	*	104,751	32,460	26,441	451	0
Department of Health and Human Services	538,880	0	0	138,519	284,816	99,084	16,460
Department of Homeland Security	2,903	0	772	2,064	0	67	0
Department of the Interior	3,248	1,328	0	574	928	0	418
Department of Justice	1,077	0	0	0	1,077	0	0
Department of Transportation	26,232	*	0	19,041	1,397	0	5,794
Department of the Treasury	2,487	0	0	2,487	0	0	0
Department of Veterans Affairs	7,358	7,358	0	0	0	0	0
Other agencies							
Environmental Protection Agency	3,290	2,603	0	522	165	0	0
National Aeronautics and Space Administration	41,120	496	0	17,516	22,991	116	0
National Science Foundation	129,414	0	0	2,042	125,916	1,456	0
Nuclear Regulatory Commission	200	0	0	0	200	0	0
Social Security Administration	479	0	0	56	0	423	0
New Mexico	3,484,393	776,565	1,999,772	468,889	213,206	20,524	5,438
Departments							
Department of Agriculture	21,839	10,440	0	0	10,414	985	0
Department of Commerce	1,036	185	0	217	633	0	0
Department of Defense	1,235,144	496,696	300,390	388,695	43,922	5,441	0
Department of Education	4,480	0	0	0	750	0	3,730
Department of Energy	1,884,274	206,341	1,658,657	8,349	10,925	1	0
Department of Health and Human Services	121,807	0	7,049	9,293	92,641	12,310	514
Department of Homeland Security	43,994	27,966	4,238	11,790	0	0	0
Department of the Interior	6,919	4,402	0	909	1,488	120	0
Department of Justice	480	0	0	480	0	0	0
Department of Transportation	13,359	0	0	8,324	4,001	0	1,034
Department of the Treasury	8,739	0	3,000	5,739	0	0	0
Department of Veterans Affairs	25,256	25,256	0	0	0	0	0
Other agencies							
Environmental Protection Agency	181	0	0	181	0	0	0
National Aeronautics and Space Administration	61,832	5,132	18,732	32,618	5,001	217	132
National Science Foundation	46,850	148	0	2,293	42,930	1,451	28
Nuclear Regulatory Commission	8,205	0	7,705	0	500	0	0
New York	6,726,319	237,841	570,606	1,541,027	3,562,027	675,232	139,586
Departments							
Department of Agriculture	67,633	23,726	0	1,014	39,830	3,063	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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	23,374	0	0	1,112	12,730	9,532	0
Department of Defense	1,206,859	138,614	0	726,393	241,225	100,226	400
Department of Education	29,734	0	0	1,250	9,838	18,647	0
Department of Energy	1,183,622	23	558,278	532,789	83,783	7,262	1,488
Department of Health and Human Services	3,484,005	0	5,802	143,981	2,692,217	508,724	133,281
Department of Homeland Security	4,657	3,749	0	457	0	451	0
Department of the Interior	12,268	10,695	0	0	1,293	0	281
Department of Justice	3,727	0	0	0	1,590	1,840	297
Department of Transportation	15,930	453	0	13,534	0	0	1,943
Department of Veterans Affairs	60,130	60,130	0	0	0	0	0
Other agencies							
Agency for Global Media	1,327	125	0	1,202	0	0	0
Agency for International Development	11,351	0	0	0	4,776	6,575	0
Appalachian Regional Commission	109	0	0	109	0	0	0
Environmental Protection Agency	2,346	0	0	1,340	540	466	0
National Aeronautics and Space Administration	151,111	75	5,991	96,682	46,762	1,601	0
National Science Foundation	466,529	252	0	21,160	426,374	16,847	1,896
Nuclear Regulatory Commission	1,438	0	535	5	898	0	0
Social Security Administration	171	0	0	0	171	0	0
North Carolina	3,724,189	381,897	149	1,024,581	1,849,849	440,869	26,844
Departments							
Department of Agriculture	66,855	22,739	0	250	41,651	1,507	708
Department of Commerce	24,923	6,229	0	4,947	13,054	694	0
Department of Defense	315,663	4,797	0	188,259	90,495	31,972	140
Department of Education	13,042	0	0	748	8,871	2,103	1,319
Department of Energy	83,592	152	0	14,337	56,015	12,898	189
Department of Health and Human Services	2,814,428	193,864	0	777,271	1,461,167	363,227	18,900
Department of Homeland Security	7,800	0	149	7,248	402	0	0
Department of the Interior	13,251	11,945	0	15	1,144	0	147
Department of Justice	27,012	0	0	0	4,337	22,675	0
Department of Transportation	9,985	0	0	2,366	2,179	0	5,440
Department of Veterans Affairs	35,624	35,624	0	0	0	0	0
Other agencies							
Agency for International Development	5,296	0	0	0	1,201	4,095	0
Environmental Protection Agency	125,427	106,548	0	15,093	3,786	0	0
National Aeronautics and Space Administration	10,644	0	0	4,257	5,691	695	0
National Science Foundation	169,868	0	0	9,789	159,076	1,003	0
Nuclear Regulatory Commission	780	0	0	0	780	0	0
North Dakota	153,360	48,221	0	18,216	76,493	3,554	6,876
Departments							
Department of Agriculture	56,011	42,805	0	0	12,919	287	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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	90	0	0	0	90	0	0
Department of Defense	28,220	2,345	0	17,704	8,171	0	0
Department of Energy	10,172	60	0	250	9,863	0	0
Department of Health and Human Services	32,209	0	0	0	22,622	3,267	6,321
Department of the Interior	3,012	2,904	0	0	108	0	0
Department of Transportation	7,449	0	0	254	6,640	0	555
Department of Veterans Affairs	106	106	0	0	0	0	0
Other agencies							
Environmental Protection Agency	7	0	0	7	0	0	0
National Aeronautics and Space Administration	828	0	0	0	828	0	0
National Science Foundation	15,122	0	0	0	15,122	0	0
Nuclear Regulatory Commission	131	0	0	0	131	0	0
Ohio	8,242,542	5,805,226	9,449	983,880	1,021,037	399,206	23,743
Departments							
Department of Agriculture	55,236	10,873	0	2,538	41,318	500	8
Department of Commerce	1,374	0	0	300	1,073	0	0
Department of Defense	6,709,129	5,654,190	7,733	790,698	137,085	119,423	0
Department of Education	8,296	0	0	0	7,790	303	203
Department of Energy	63,397	2,938	1,013	19,169	36,603	3,674	0
Department of Health and Human Services	980,871	15,551	0	26,579	670,144	257,636	10,961
Department of Homeland Security	16,209	1,500	703	808	0	13,198	0
Department of the Interior	9,888	9,272	0	1	416	0	200
Department of Justice	533	0	0	0	533	0	0
Department of Transportation	29,975	1,015	0	7,323	7,087	2,978	11,572
Department of Veterans Affairs	41,446	41,446	0	0	0	0	0
Other agencies							
Environmental Protection Agency	62,810	48,963	0	13,248	598	0	0
National Aeronautics and Space Administration	147,926	19,479	0	119,436	8,176	835	0
National Science Foundation	114,376	0	0	3,753	109,162	660	800
Nuclear Regulatory Commission	932	0	0	26	906	0	0
Social Security Administration	145	0	0	0	145	0	0
Oklahoma	458,390	131,813	0	67,474	212,970	38,840	7,293
Departments							
Department of Agriculture	34,985	14,509	0	0	20,426	0	50
Department of Commerce	18,553	0	0	0	18,553	0	0
Department of Defense	79,584	38,445	0	31,803	9,335	0	0
Department of Education	466	0	0	0	466	0	0
Department of Energy	28,085	132	0	13,040	14,747	7	159
Department of Health and Human Services	140,342	0	0	8,237	89,204	38,293	4,607
Department of Homeland Security	1,304	0	0	1,304	0	0	0
Department of the Interior	62,418	61,377	0	0	686	300	55
Department of Transportation	13,797	1,506	0	8,995	1,816	0	1,480

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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	8,811	8,811	0	0	0	0	0
Other agencies							
Environmental Protection Agency	6,946	6,181	0	764	0	0	0
National Aeronautics and Space Administration	23,012	852	0	2,575	19,345	240	0
National Science Foundation	40,088	0	0	756	38,390	0	942
Oregon	812,145	142,582	0	99,693	528,914	34,988	5,969
Departments							
Department of Agriculture	81,642	56,693	0	495	23,809	615	30
Department of Commerce	4,974	0	0	1,071	3,663	240	0
Department of Defense	71,578	938	0	41,313	26,450	2,877	0
Department of Education	7,451	0	0	250	4,796	2,150	256
Department of Energy	51,123	0	0	23,714	15,769	11,639	0
Department of Health and Human Services	398,675	151	0	23,364	358,101	15,738	1,322
Department of Homeland Security	550	0	0	150	401	0	0
Department of the Interior	21,515	19,047	0	0	1,718	122	627
Department of Transportation	6,726	2,522	0	25	797	0	3,383
Department of Veterans Affairs	52,983	52,983	0	0	0	0	0
Other agencies							
Environmental Protection Agency	10,489	10,248	0	213	28	0	0
National Aeronautics and Space Administration	11,658	0	0	4,576	7,064	18	0
National Science Foundation	91,628	0	0	4,261	85,426	1,589	352
Nuclear Regulatory Commission	1,153	0	0	260	893	0	0
Pennsylvania	4,911,808	443,164	42,166	1,453,858	2,554,197	404,953	13,470
Departments							
Department of Agriculture	78,487	50,642	0	293	27,282	269	0
Department of Commerce	11,961	274	0	5,241	2,938	3,508	0
Department of Defense	1,578,904	279,396	42,166	766,782	444,456	46,104	0
Department of Education	17,794	0	0	396	11,221	5,795	382
Department of Energy	419,012	27,335	0	333,787	57,172	633	85
Department of Health and Human Services	2,310,525	23,198	0	228,651	1,708,523	344,111	6,042
Department of Homeland Security	11,176	255	0	10,621	300	0	0
Department of the Interior	11,108	9,348	0	292	1,293	39	136
Department of Justice	4,850	0	0	0	4,164	686	0
Department of Transportation	50,907	0	0	35,990	6,757	1,336	6,824
Department of Veterans Affairs	48,705	48,705	0	0	0	0	0
Other agencies							
Environmental Protection Agency	11,004	0	0	9,491	1,513	0	0
National Aeronautics and Space Administration	83,499	4,011	0	53,594	25,846	48	0
National Science Foundation	271,200	0	0	8,167	260,608	2,425	0
Nuclear Regulatory Commission	2,483	0	0	553	1,930	0	0
Social Security Administration	193	0	0	0	193	0	0
Rhode Island	894,706	327,071	0	204,732	263,923	89,491	9,490

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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
Departments							
Department of Agriculture	3,036	585	0	0	2,404	32	15
Department of Commerce	22,701	0	0	0	22,647	54	0
Department of Defense	521,198	296,087	0	196,703	27,816	292	300
Department of Education	5,940	0	0	0	5,388	0	553
Department of Energy	6,667	0	0	924	5,470	225	48
Department of Health and Human Services	256,652	0	0	6,146	156,377	86,677	7,452
Department of the Interior	321	74	0	0	247	0	0
Department of Transportation	2,122	0	0	0	1,000	0	1,122
Department of Veterans Affairs	21,049	21,049	0	0	0	0	0
Other agencies							
Environmental Protection Agency	9,272	9,272	0	0	0	0	0
National Aeronautics and Space Administration	4,647	4	0	447	4,126	70	0
National Science Foundation	41,100	0	0	512	38,447	2,141	0
South Carolina	1,162,399	166,835	80,446	350,916	323,392	231,091	9,718
Departments							
Department of Agriculture	33,368	16,287	0	0	16,659	423	0
Department of Commerce	13,484	10,047	0	0	2,799	77	561
Department of Defense	686,757	102,221	8,868	320,299	28,141	227,227	0
Department of Education	3,482	0	0	0	3,482	0	0
Department of Energy	91,455	81	70,577	4,519	16,199	0	79
Department of Health and Human Services	241,852	0	0	19,349	213,944	1,679	6,880
Department of Homeland Security	4,751	0	1,000	3,751	0	0	0
Department of the Interior	1,580	921	0	4	552	0	104
Department of Transportation	4,787	0	0	2,142	551	0	2,094
Department of Veterans Affairs	37,095	37,095	0	0	0	0	0
Other agencies							
Environmental Protection Agency	415	0	0	0	415	0	0
National Aeronautics and Space Administration	5,078	1	0	368	4,709	0	0
National Science Foundation	36,860	183	0	484	34,508	1,686	0
Nuclear Regulatory Commission	1,350	0	0	0	1,350	0	0
Social Security Administration	84	0	0	0	84	0	0
South Dakota	134,466	23,536	0	13,468	41,241	22,776	33,446
Departments							
Department of Agriculture	13,703	2,888	0	0	10,383	400	32
Department of Commerce	91	0	0	91	0	0	0
Department of Defense	15,588	7,267	0	7,075	1,247	0	0
Department of Energy	28,945	165	0	2,325	1,905	0	24,550
Department of Health and Human Services	35,677	0	0	823	13,468	14,272	7,115
Department of the Interior	15	15	0	0	0	0	0
Department of Transportation	1,749	0	0	0	0	0	1,749
Department of Veterans Affairs	583	583	0	0	0	0	0
Other agencies							

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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	16,861	12,618	0	3,154	1,089	0	0
National Science Foundation	21,254	0	0	0	13,150	8,104	0
Tennessee	3,385,285	358,907	1,293,848	769,510	841,291	111,921	9,808
Departments							
Department of Agriculture	49,050	14,904	0	0	33,722	0	424
Department of Commerce	736	0	0	0	736	0	0
Department of Defense	516,876	272,526	9,844	160,981	70,566	2,959	0
Department of Education	5,486	0	0	0	5,486	0	0
Department of Energy	1,508,675	14,324	1,272,875	158,704	55,543	3,600	3,629
Department of Health and Human Services	679,140	397	598	7,443	571,959	97,875	869
Department of Homeland Security	8,719	347	1,601	5,553	1,219	0	0
Department of the Interior	8,609	8,073	0	0	420	0	115
Department of Justice	396	0	0	0	396	0	0
Department of Transportation	8,195	0	1,625	663	1,135	0	4,771
Department of Veterans Affairs	38,979	38,979	0	0	0	0	0
Other agencies							
Appalachian Regional Commission	148	0	0	0	148	0	0
Environmental Protection Agency	41,412	0	444	40,968	0	0	0
National Aeronautics and Space Administration	402,392	8,607	0	369,440	24,345	0	0
National Science Foundation	80,405	750	0	4,002	74,664	988	0
Nuclear Regulatory Commission	7,812	0	6,862	0	950	0	0
Tennessee Valley Authority	28,254	0	0	21,756	0	6,498	0
Texas	5,475,314	600,451	38,073	2,060,666	2,518,004	189,690	68,430
Departments							
Department of Agriculture	145,542	50,100	0	1,694	89,056	4,693	0
Department of Commerce	12,415	0	0	1,571	10,844	0	0
Department of Defense	2,032,364	483,776	36,349	1,245,687	250,449	16,075	30
Department of Education	28,335	0	0	250	22,738	2,802	2,545
Department of Energy	141,202	227	0	28,374	107,781	4,693	128
Department of Health and Human Services	1,769,766	0	0	71,760	1,591,780	72,205	34,020
Department of Homeland Security	16,410	0	203	12,017	250	3,940	0
Department of the Interior	15,670	9,670	0	2,141	2,392	365	1,102
Department of Justice	3,866	0	0	0	3,866	0	0
Department of Transportation	36,520	0	0	7,197	3,631	1,549	24,143
Department of Veterans Affairs	55,302	55,302	0	0	0	0	0
Other agencies							
Agency for International Development	3,000	0	0	0	3,000	0	0
Appalachian Regional Commission	250	0	0	250	0	0	0
Environmental Protection Agency	4,637	0	0	2,144	2,494	0	0
National Aeronautics and Space Administration	807,147	1,375	0	674,458	50,256	81,056	3

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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 Science Foundation	393,900	0	0	13,068	378,518	2,314	0
Nuclear Regulatory Commission	2,527	0	1,522	55	950	0	0
RESTORE Act Centers of Excellence Research Grants Program	6,460	0	0	0	0	0	6,460
Utah	3,196,264	333,801	0	2,387,391	467,595	5,667	1,810
Departments							
Department of Agriculture	31,708	24,679	0	775	6,248	0	6
Department of Commerce	1,000	0	0	102	898	0	0
Department of Defense	2,580,287	247,974	0	2,242,892	85,513	3,909	0
Department of Education	487	0	0	0	487	0	0
Department of Energy	61,765	0	0	21,406	40,264	95	0
Department of Health and Human Services	292,838	0	0	44,224	247,003	1,385	227
Department of Homeland Security	318	0	0	318	0	0	0
Department of the Interior	12,715	11,458	0	0	389	278	589
Department of Justice	76	0	0	0	76	0	0
Department of Transportation	2,666	0	0	1,676	1	0	989
Department of Veterans Affairs	49,342	49,342	0	0	0	0	0
Other agencies							
Agency for Global Media	183	17	0	166	0	0	0
Environmental Protection Agency	181	0	0	181	0	0	0
National Aeronautics and Space Administration	88,512	329	0	73,412	14,771	0	0
National Science Foundation	74,185	0	0	2,241	71,944	0	0
Vermont	161,740	13,288	0	37,833	97,596	3,771	9,252
Departments							
Department of Agriculture	26,326	4,892	0	0	21,434	0	0
Department of Commerce	3,118	0	0	0	3,118	0	0
Department of Defense	18,986	0	0	14,530	850	3,606	0
Department of Energy	3,921	0	0	1,170	2,751	0	0
Department of Health and Human Services	81,841	0	0	16,779	56,984	0	8,078
Department of Homeland Security	2,320	0	0	2,320	0	0	0
Department of the Interior	2,094	1,297	0	20	712	0	66
Department of Justice	165	0	0	0	0	165	0
Department of Transportation	2,453	0	0	150	1,195	0	1,108
Department of Veterans Affairs	7,100	7,100	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	839	0	0	839	0	0	0
National Science Foundation	12,064	0	0	1,512	10,553	0	0
Nuclear Regulatory Commission	513	0	0	513	0	0	0
Virginia	10,144,002	2,218,305	780,461	6,214,532	714,862	201,506	14,336
Departments							
Department of Agriculture	42,558	1,335	0	224	28,439	12,560	0
Department of Commerce	14,816	1,999	0	1,287	10,855	675	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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	7,356,864	1,954,122	512,671	4,738,075	76,479	70,853	4,664
Department of Education	12,897	0	0	1,724	9,978	0	1,195
Department of Energy	341,095	5,028	165,829	133,330	33,524	3,385	0
Department of Health and Human Services	704,826	0	16,909	258,217	379,669	49,069	963
Department of Homeland Security	194,762	99,881	171	91,630	888	2,193	0
Department of the Interior	109,301	104,122	0	4,720	0	56	403
Department of Justice	9,382	300	0	4,832	1,170	2,688	392
Department of Transportation	171,822	11,586	666	109,497	12,667	30,687	6,719
Department of the Treasury	8,904	0	2,950	5,954	0	0	0
Department of Veterans Affairs	93,548	19,235	74,313	0	0	0	0
Other agencies							
Administrative Office of the U.S. Courts	1,443	0	1,443	0	0	0	0
Agency for Global Media	909	85	0	824	0	0	0
Agency for International Development	9,929	800	0	3,681	4,685	763	0
Appalachian Regional Commission	108	0	0	0	0	108	0
Environmental Protection Agency	27,128	4,067	0	21,865	897	300	0
National Aeronautics and Space Administration	879,323	15,692	530	828,982	17,262	16,857	0
National Science Foundation	156,981	0	4,980	4,366	137,334	10,302	0
Nuclear Regulatory Commission	3,174	0	0	2,324	850	0	0
Social Security Administration	4,230	54	0	3,000	166	1,010	0
Washington	3,576,461	398,649	568,777	720,909	1,014,970	823,017	50,139
Departments							
Department of Agriculture	75,796	39,935	0	2,419	30,943	1,820	679
Department of Commerce	50,195	24,956	0	275	24,746	218	0
Department of Defense	951,429	248,858	22,586	540,440	96,857	42,688	1
Department of Education	4,822	0	0	0	3,273	1,549	0
Department of Energy	608,056	13	523,836	46,055	34,097	3,600	455
Department of Health and Human Services	1,517,651	4,607	15,736	53,423	636,851	762,353	44,682
Department of Homeland Security	3,600	2,000	200	1,320	0	0	80
Department of the Interior	22,476	18,567	0	536	3,074	0	299
Department of Transportation	15,466	0	0	5	11,517	0	3,944
Department of Veterans Affairs	58,730	58,730	0	0	0	0	0
Other agencies							
Agency for International Development	9,977	0	0	3,900	1,000	5,077	0
Environmental Protection Agency	2,077	0	19	2,031	27	0	0
National Aeronautics and Space Administration	81,507	983	0	61,665	17,984	874	0
National Science Foundation	168,276	0	0	8,837	154,600	4,838	0
Nuclear Regulatory Commission	6,404	0	6,400	4	0	0	0
West Virginia	212,282	59,322	0	48,718	77,573	15,538	11,131
Departments							

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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	42,415	26,720	0	125	15,406	125	40
Department of Commerce	3,223	0	0	0	1,223	2,000	0
Department of Defense	38,603	79	0	36,238	1,732	554	0
Department of Energy	17,831	16	0	9,241	5,909	2,350	316
Department of Health and Human Services	81,150	24,418	0	400	46,768	472	9,091
Department of Homeland Security	720	0	0	720	0	0	0
Department of the Interior	5,803	5,233	0	0	391	0	178
Department of Justice	1,013	0	0	0	1,013	0	0
Department of Transportation	2,599	1,754	0	0	0	0	845
Department of Veterans Affairs	1,102	1,102	0	0	0	0	0
Other agencies							
Appalachian Regional Commission	100	0	0	86	14	0	0
Environmental Protection Agency	550	0	0	0	550	0	0
National Aeronautics and Space Administration	3,748	0	0	1,745	2,003	0	0
National Science Foundation	13,261	0	0	0	2,564	10,036	661
Nuclear Regulatory Commission	163	0	0	163	0	0	0
Wisconsin	1,115,331	62,417	0	225,174	753,921	62,517	11,302
Departments							
Department of Agriculture	81,451	47,124	0	1,305	30,181	2,829	12
Department of Commerce	7,884	0	0	345	7,539	0	0
Department of Defense	212,637	157	0	178,220	34,103	157	0
Department of Education	9,002	0	0	0	3,479	5,523	0
Department of Energy	88,003	0	0	13,654	69,658	4,691	0
Department of Health and Human Services	558,459	0	0	22,063	478,905	48,137	9,355
Department of the Interior	15,084	14,630	0	37	191	0	226
Department of Transportation	2,865	100	0	0	1,056	0	1,709
Department of Veterans Affairs	406	406	0	0	0	0	0
Other agencies							
Environmental Protection Agency	2,647	0	0	317	2,330	0	0
National Aeronautics and Space Administration	23,659	0	0	4,766	18,842	50	0
National Science Foundation	112,578	0	0	4,467	106,980	1,131	0
Social Security Administration	656	0	0	0	656	0	0
Wyoming	80,466	28,294	0	4,739	44,308	740	2,385
Departments							
Department of Agriculture	3,242	134	0	175	2,858	76	0
Department of Defense	1,179	79	0	914	186	0	0
Department of Energy	9,751	0	0	1,348	7,843	560	0
Department of Health and Human Services	13,550	0	0	259	13,076	0	215
Department of Homeland Security	259	0	0	259	0	0	0
Department of the Interior	29,094	28,081	0	0	725	78	210
Department of Transportation	2,164	0	0	204	0	0	1,960

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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							
National Aeronautics and Space Administration	1,732	0	0	665	1,040	26	0
National Science Foundation	19,495	0	0	914	18,581	0	0
Outlying areas	142,474	28,964	0	2,313	97,068	6,241	7,888
Departments							
Department of Agriculture	21,833	5,491	0	175	16,167	0	0
Department of Commerce	3,363	450	0	0	2,859	54	0
Department of Defense	4,650	46	0	129	4,476	0	0
Department of Education	250	0	0	250	0	0	0
Department of Health and Human Services	54,529	0	0	1,150	44,530	6,187	2,663
Department of Homeland Security	577	0	0	107	470	0	0
Department of the Interior	6,524	1,055	0	0	243	0	5,226
Department of Veterans Affairs	21,923	21,923	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	63	0	0	0	63	0	0
National Science Foundation	28,762	0	0	502	28,261	0	0
Puerto Rico	101,838	28,349	0	1,932	68,614	54	2,888
Departments							
Department of Agriculture	11,828	5,314	0	175	6,339	0	0
Department of Commerce	2,115	61	0	0	2,000	54	0
Department of Defense	1,997	0	0	0	1,997	0	0
Department of Health and Human Services	45,895	0	0	1,150	42,082	0	2,663
Department of Homeland Security	575	0	0	105	470	0	0
Department of the Interior	1,413	1,052	0	0	136	0	226
Department of Veterans Affairs	21,923	21,923	0	0	0	0	0
Other agencies							
National Science Foundation	16,092	0	0	502	15,591	0	0
Other areas ^c	40,636	615	0	381	28,454	6,187	5,000
Departments							
Department of Agriculture	10,005	177	0	0	9,828	0	0
Department of Commerce	1,248	389	0	0	859	0	0
Department of Defense	2,653	46	0	129	2,479	0	0
Department of Education	250	0	0	250	0	0	0
Department of Health and Human Services	8,634	0	0	0	2,447	6,187	0
Department of Homeland Security	2	0	0	2	0	0	0
Department of the Interior	5,111	3	0	0	108	0	5,000
Other agencies							
National Aeronautics and Space Administration	63	0	0	0	63	0	0
National Science Foundation	12,670	0	0	0	12,670	0	0
Offices abroad ^d	20,507	14,222	0	5,330	955	0	0

TABLE 61

Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2022

(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
Departments							
Department of Defense	4,192	1,170	0	3,022	0	0	0
Department of Energy	900	0	0	0	900	0	0
Department of Health and Human Services	5,558	5,558	0	0	0	0	0
Department of Homeland Security	1,068	0	0	1,068	0	0	0
Department of the Interior	1,226	0	0	1,226	0	0	0
Department of State	7,000	7,000	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	495	495	0	0	0	0	0
Nuclear Regulatory Commission	68	0	0	13	55	0	0
Undistributed ^e	4,972,632	3,771,869	320	1,192,463	7,935	46	0
Departments							
Department of Defense	4,972,632	3,771,869	320	1,192,463	7,935	46	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 Includes American Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.^d Includes R&D performed or administered in foreign countries by the U.S. government.^e Undistributed totals include 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. FY 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). 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 2022–23.