

TABLE 58

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

(Dollars in thousands)

State or location	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
All locations	189,604,388	70,779,628	15,380,951	50,204,817	42,178,815	10,135,603	924,575
Alabama	4,086,585	1,967,060	608	1,509,290	568,863	22,193	18,572
Alaska	272,508	75,226	0	65,177	109,357	15,658	7,090
Arizona	2,387,850	135,318	82,933	1,460,382	593,475	104,472	11,270
Arkansas	268,319	52,562	0	60,748	126,610	13,661	14,738
California	23,272,011	2,530,252	5,428,274	8,043,185	5,973,327	1,223,029	73,944
Colorado	4,638,849	426,334	541,731	2,538,031	1,009,654	111,555	11,543
Connecticut	2,642,331	57,741	5,453	1,705,162	819,440	12,946	41,588
Delaware	340,648	28,757	0	131,264	162,123	16,444	2,060
District of Columbia	33,916,947	31,563,916	137,557	877,503	271,082	1,059,234	7,655
Florida	4,249,966	799,142	113	2,099,511	1,138,687	195,545	16,969
Georgia	1,821,438	225,983	3,697	239,405	1,291,590	29,422	31,340
Hawaii	371,193	62,910	0	133,668	144,109	23,115	7,390
Idaho	702,352	65,585	491,824	69,275	62,207	893	12,567
Illinois	3,468,724	266,842	1,113,441	350,975	1,575,978	146,398	15,090
Indiana	1,277,050	326,926	5	276,340	660,168	1,466	12,144
Iowa	760,960	91,346	32,616	193,452	425,588	2,020	15,938
Kansas	445,052	149,333	0	21,219	264,257	8,675	1,567
Kentucky	413,477	49,109	0	36,794	311,024	7,046	9,504
Louisiana	512,246	60,230	0	124,622	301,852	6,572	18,970
Maine	229,928	13,921	5	28,850	70,300	109,233	7,620
Maryland	20,258,939	12,684,205	687,893	3,743,892	2,716,237	405,861	20,850
Massachusetts	8,495,312	644,127	1,353,857	2,237,060	2,122,437	2,131,202	6,629
Michigan	2,389,976	401,393	0	499,795	1,304,944	179,807	4,036
Minnesota	1,239,047	73,449	0	226,291	598,213	313,761	27,332
Mississippi	1,149,978	589,504	0	385,154	171,928	30	3,363
Missouri	1,837,946	137,041	0	723,113	908,021	55,695	14,076
Montana	291,606	94,038	0	40,444	146,125	3,085	7,914
Nebraska	325,071	52,110	11,354	9,971	221,283	25,986	4,366
Nevada	519,765	62,678	0	348,937	93,643	7,821	6,686
New Hampshire	444,718	11,450	0	234,594	186,122	11,893	658
New Jersey	3,386,124	707,898	105,523	1,894,399	546,847	108,708	22,748
New Mexico	3,484,393	776,565	1,999,772	468,889	213,206	20,524	5,438
New York	6,726,319	237,841	570,606	1,541,027	3,562,027	675,232	139,586
North Carolina	3,724,189	381,897	149	1,024,581	1,849,849	440,869	26,844
North Dakota	153,360	48,221	0	18,216	76,493	3,554	6,876
Ohio	8,242,542	5,805,226	9,449	983,880	1,021,037	399,206	23,743
Oklahoma	458,390	131,813	0	67,474	212,970	38,840	7,293
Oregon	812,145	142,582	0	99,693	528,914	34,988	5,969
Pennsylvania	4,911,808	443,164	42,166	1,453,858	2,554,197	404,953	13,470
Rhode Island	894,706	327,071	0	204,732	263,923	89,491	9,490
South Carolina	1,162,399	166,835	80,446	350,916	323,392	231,091	9,718
South Dakota	134,466	23,536	0	13,468	41,241	22,776	33,446
Tennessee	3,385,285	358,907	1,293,848	769,510	841,291	111,921	9,808
Texas	5,475,314	600,451	38,073	2,060,666	2,518,004	189,690	68,430
Utah	3,196,264	333,801	0	2,387,391	467,595	5,667	1,810
Vermont	161,740	13,288	0	37,833	97,596	3,771	9,252

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Virginia	10,144,002	2,218,305	780,461	6,214,532	714,862	201,506	14,336
Washington	3,576,461	398,649	568,777	720,909	1,014,970	823,017	50,139
West Virginia	212,282	59,322	0	48,718	77,573	15,538	11,131
Wisconsin	1,115,331	62,417	0	225,174	753,921	62,517	11,302
Wyoming	80,466	28,294	0	4,739	44,308	740	2,385
Outlying areas	142,474	28,964	0	2,313	97,068	6,241	7,888
Puerto Rico	101,838	28,349	0	1,932	68,614	54	2,888
Other areas ^c	40,636	615	0	381	28,454	6,187	5,000
Offices abroad ^d	20,507	14,222	0	5,330	955	0	0
Undistributed ^e	4,972,632	3,771,869	320	1,192,463	7,935	46	0

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 and federal obligations for R&D plant located in foreign countries.

^e 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).

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2022–23.