

TABLE 89

## Federal obligations for research and experimental development for selected agencies, by state or location and performer: FY 2020

(Dollars in thousands)

State or location	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
All locations	162,959,084.8	49,593,971.6	51,264,374.5	4,100,741.5	38,269,790.3	5,352,221.9	10,103,718.1	3,579,473.2	694,793.7
Alabama	3,070,409.3	1,442,780.4	1,047,612.6	0.0	516,005.7	0.0	50,887.2	0.0	13,123.4
Alaska	278,935.0	86,735.3	80,693.1	0.0	94,136.3	0.0	7,598.2	0.0	9,772.1
Arizona	1,938,848.0	263,901.9	1,097,654.4	0.0	494,438.7	0.0	73,478.1	0.0	9,374.9
Arkansas	501,283.1	41,480.2	332,456.1	0.0	111,946.3	0.0	8,262.0	0.0	7,138.4
California	22,464,304.1	3,457,910.4	7,689,098.3	1,108,969.5	5,177,920.8	3,361,519.6	1,219,206.5	424,876.1	24,803.0
Colorado	5,024,162.0	626,299.8	2,877,616.5	9,899.1	841,146.5	122,519.3	114,606.3	414,653.8	17,420.7
Connecticut	2,566,181.7	14,844.2	1,743,091.2	0.0	754,257.0	0.0	29,735.6	0.0	24,253.7
Delaware	221,625.6	2,966.8	63,579.9	0.0	149,887.4	0.0	5,028.0	0.0	163.4
District of Columbia	16,314,674.4	14,441,170.2	1,078,835.5	149.2	254,343.4	163,824.9	367,376.0	5,522.3	3,453.0
Florida	4,061,105.1	766,274.3	2,109,699.8	0.0	971,782.4	0.0	201,375.0	0.0	11,973.5
Georgia	1,912,787.9	197,767.4	530,877.9	0.0	1,112,293.7	0.0	61,728.5	0.0	10,120.5
Hawaii	393,877.5	90,914.1	146,470.3	0.0	141,517.5	0.0	12,985.9	0.0	1,989.6
Idaho	840,359.6	36,536.0	352,689.1	299,594.5	146,482.8	0.0	2,458.1	0.0	2,599.1
Illinois	3,208,955.0	180,530.0	414,092.5	0.0	1,520,145.4	990,314.4	98,040.5	0.0	5,832.2
Indiana	1,104,109.4	243,001.0	222,194.2	0.0	621,992.6	0.0	0.0	0.0	16,921.5
Iowa	702,068.0	70,782.2	244,711.1	0.0	346,484.1	31,348.2	1,920.7	0.0	6,821.7
Kansas	352,337.6	92,527.3	35,033.6	0.0	218,244.2	0.0	4,528.2	0.0	2,004.2
Kentucky	354,252.4	7,418.8	29,455.2	0.0	311,759.1	0.0	1,837.5	0.0	3,781.8
Louisiana	436,645.1	53,489.3	107,822.0	0.0	256,067.8	0.0	3,026.6	0.0	16,239.4
Maine	185,145.9	7,818.8	18,009.8	0.0	50,989.1	0.0	104,262.7	0.0	4,065.6
Maryland	22,736,194.9	14,521,346.3	4,460,415.9	856,993.0	2,215,252.6	0.0	601,699.5	58,540.0	21,947.7
Massachusetts	8,850,302.8	572,534.8	3,630,199.6	0.0	2,055,988.9	390,498.8	2,083,380.7	108,665.5	9,034.6
Michigan	1,924,825.7	114,562.5	245,134.3	0.0	1,472,856.0	0.0	84,719.5	0.0	7,553.4
Minnesota	1,447,555.5	60,861.5	465,755.0	0.0	499,180.4	0.0	412,629.9	0.0	9,128.7
Mississippi	471,970.2	299,686.7	28,914.3	0.0	139,727.5	0.0	1,809.5	0.0	1,832.2
Missouri	2,079,638.9	126,150.1	1,140,052.5	0.0	770,436.5	0.0	38,180.1	0.0	4,819.7
Montana	213,205.6	65,288.6	29,045.7	0.0	114,401.2	0.0	1,854.4	0.0	2,615.7
Nebraska	254,860.8	39,229.4	13,969.6	0.0	185,820.4	0.0	13,616.9	0.0	2,224.5
Nevada	305,900.0	19,687.1	200,414.1	0.0	78,515.5	0.0	2,504.6	0.0	4,778.8
New Hampshire	483,307.8	63,128.6	231,234.5	0.0	175,002.3	0.0	13,303.0	0.0	639.5
New Jersey	2,884,975.1	569,555.8	1,345,276.1	0.0	784,002.1	118,966.1	42,108.6	0.0	25,066.4
New Mexico	3,501,956.2	687,753.7	815,838.4	1,776,515.3	184,030.3	0.0	36,947.9	0.0	870.7
New York	8,148,161.8	1,378,595.9	2,374,927.1	0.0	3,209,460.2	0.0	527,869.9	530,415.0	126,893.5
North Carolina	3,271,375.6	349,457.2	603,201.8	0.0	1,645,384.7	0.0	661,646.7	0.0	11,685.2
North Dakota	140,075.8	36,538.1	2,478.6	0.0	98,894.9	0.0	673.4	0.0	1,490.8
Ohio	5,215,661.1	1,885,146.5	2,032,806.7	0.0	967,912.9	0.0	282,561.2	0.0	47,233.7
Oklahoma	536,709.2	185,012.4	65,558.9	0.0	243,952.2	0.0	34,027.4	0.0	8,158.4
Oregon	814,311.9	89,267.7	124,263.4	0.0	562,640.5	0.0	26,118.1	0.0	12,022.2
Pennsylvania	5,214,140.2	420,020.3	2,166,237.0	0.0	2,191,260.5	34,062.8	380,886.7	0.0	21,672.9
Rhode Island	875,650.3	351,096.2	191,700.8	0.0	240,609.8	0.0	89,321.4	0.0	2,922.1
South Carolina	821,547.5	107,752.0	205,342.3	26,565.3	289,216.1	0.0	186,131.1	0.0	6,540.8
South Dakota	130,890.0	16,568.4	38,370.8	0.0	28,518.0	0.0	21,254.5	0.0	26,178.3
Tennessee	3,151,030.3	785,966.6	266,724.5	14,712.3	397,172.1	0.5	575,335.1	1,101,455.2	9,664.0
Texas	6,135,035.6	810,001.6	2,703,095.8	0.0	2,408,694.9	0.0	167,702.8	272.2	45,268.4
Utah	1,140,726.7	177,104.3	346,203.7	0.0	526,800.9	0.0	87,398.8	0.0	3,219.1

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Vermont	129,254.4	4,474.0	35,244.9	0.0	85,902.2	0.0	*	0.0	3,633.3
Virginia	9,650,204.4	2,019,216.9	6,064,162.8	0.0	748,598.5	136,883.5	183,870.5	482,098.0	15,374.2
Washington	3,280,001.8	282,272.0	481,147.0	7,343.4	911,821.6	2,283.7	1,111,074.9	452,975.1	31,084.1
West Virginia	150,437.5	56,013.9	9,538.6	0.0	71,775.3	0.0	8,149.3	0.0	4,960.3
Wisconsin	907,886.0	57,336.3	86,425.4	0.0	719,046.5	0.0	40,922.8	0.0	4,154.9
Wyoming	86,676.8	25,806.0	5,747.5	0.0	52,481.6	0.0	255.0	0.0	2,386.8
Outlying areas	195,453.7	46,050.5	26,260.1	0.0	94,393.4	0.0	862.4	0.0	27,887.2
Puerto Rico	88,075.5	6,390.1	6,754.7	0.0	73,189.8	0.0	364.5	0.0	1,376.4
Other areas <sup>b</sup>	107,378.2	39,660.4	19,505.5	0.0	21,203.7	0.0	497.8	0.0	26,510.8
Offices abroad <sup>c</sup>	47,928.2	2,730.3	44,798.7	0.0	399.2	0.0	0.0	0.0	0.0
Undistributed <sup>d</sup>	1,829,166.2	1,242,611.3	562,195.1	0.0	7,800.0	0.0	16,559.8	0.0	0.0

\* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

<sup>a</sup> Intramural activities cover costs associated with the administration of intramural R&D programs and extramural R&D procurements by federal personnel as well as actual intramural performance.<sup>b</sup> 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.<sup>c</sup> Includes R&D performed or administered in foreign countries by the U.S. government.<sup>d</sup> Undistributed totals include Department of Defense (DOD) obligations for which the location of performance is not reported.**Note(s):**

Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented more than 97% of total federal R&D obligations in FY 2020. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. FYs 2020 obligations include additional funding provided by supplemental COVID-19 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 2020–21.