

TABLE 91

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

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	162,959,084.8	491,332.0	1,609,673.5	65,701,581.9	13,451,915.7	836,159.8	1,183,932.4	488,501.0	59,716,863.3	10,508,484.3	6,332,078.1	2,638,562.8
Alabama	3,070,409.3	2,766.2	4,274.8	2,342,639.6	13,072.3	1,407.4	14,951.7	162.1	403,356.4	198,342.4	54,589.9	34,846.5
Alaska	278,935.0	3,345.2	9,386.9	103,233.6	8,034.6	54,974.4	4,782.9	0.0	16,385.0	19,039.8	45,029.5	14,723.1
Arizona	1,938,848.0	5,080.5	2,162.1	1,252,292.2	42,065.1	33,192.7	4,833.0	260.5	296,590.8	145,956.3	124,641.0	31,773.8
Arkansas	501,283.1	0.0	185.1	337,343.4	9,279.4	8,010.1	4,788.1	0.0	79,804.7	2,705.1	20,098.6	39,068.8
California	22,464,304.1	30,306.5	27,734.9	9,970,209.3	2,609,456.6	59,547.9	48,106.2	10,482.9	5,204,740.9	3,533,716.3	801,326.4	168,676.4
Colorado	5,024,162.0	0.0	163,985.2	2,681,864.3	531,784.4	77,029.4	41,208.7	5,945.7	532,816.3	604,322.0	326,269.6	58,936.4
Connecticut	2,566,181.7	3,261.4	19,102.4	1,540,532.6	53,594.2	692.6	4,697.4	325.1	721,291.9	147,247.7	60,326.4	15,110.2
Delaware	221,625.6	2,644.4	22,525.9	42,327.1	23,657.7	1,433.7	67.9	118.3	75,375.5	12,027.9	34,378.1	7,069.0
District of Columbia	16,314,674.4	56,956.4	29,438.4	3,744,833.7	705,236.1	22,237.0	191,824.4	137,896.8	10,513,541.2	305,886.8	286,152.7	320,670.9
Florida	4,061,105.1	4,526.0	30,821.6	2,709,272.5	51,670.3	44,111.7	34,119.5	11,639.6	744,553.2	149,752.0	198,740.5	81,898.3
Georgia	1,912,787.9	7,034.9	6,441.0	739,442.4	45,509.0	3,359.9	35,968.0	8,946.9	833,116.5	24,670.5	127,184.1	81,114.6
Hawaii	393,877.5	460.3	11,300.1	204,874.9	12,104.6	7,869.9	1,633.3	0.0	63,438.4	27,710.0	43,285.9	21,200.0
Idaho	840,359.6	3,552.1	0.0	65,006.0	677,648.6	7,605.2	1,045.8	1,739.7	19,138.6	3,087.4	22,352.2	39,184.0
Illinois	3,208,955.0	13,126.6	1,451.7	478,356.4	1,176,265.2	8,326.5	12,220.4	2,473.3	1,129,057.2	32,125.8	289,065.9	66,486.0
Indiana	1,104,109.4	624.0	1,920.6	466,363.6	39,684.2	8,634.5	12,946.9	6,578.3	370,920.6	21,967.0	154,973.0	19,496.8
Iowa	702,068.0	333.3	1,387.2	257,426.9	38,484.0	1,250.2	12,278.3	1,370.6	230,049.7	35,509.0	42,863.5	81,115.1
Kansas	352,337.6	776.9	818.7	50,662.0	11,601.2	5,771.3	15,250.3	0.0	119,717.7	5,850.1	39,094.7	102,794.7
Kentucky	354,252.4	751.3	0.0	24,944.4	19,471.6	2,071.5	2,175.4	0.0	243,754.1	4,898.3	34,711.7	21,474.1
Louisiana	436,645.1	0.0	2,762.5	105,153.3	10,241.9	19,239.2	8,612.3	3,505.8	202,287.0	3,792.3	36,601.5	44,449.4
Maine	185,145.9	4.9	3,435.1	15,694.7	11,799.6	2,477.3	9,119.8	0.0	100,387.6	5,812.3	24,858.4	11,556.2
Maryland	22,736,194.9	74,546.9	1,020,721.3	6,527,815.6	73,386.9	40,163.5	47,163.1	16,769.5	12,663,389.3	1,760,975.3	318,737.5	192,525.9
Massachusetts	8,850,302.8	33,499.3	25,297.9	3,269,726.2	172,013.4	19,572.4	81,494.0	24,200.2	4,517,104.2	212,568.3	465,499.4	29,327.3
Michigan	1,924,825.7	1,355.3	7,301.9	570,495.0	139,804.9	11,106.1	18,622.6	278.2	886,657.4	44,770.4	205,962.4	38,471.6
Minnesota	1,447,555.5	59.2	1,837.9	511,059.3	27,371.5	7,152.5	6,522.4	8,992.0	731,113.3	12,392.9	92,095.1	48,959.3
Mississippi	471,970.2	3,045.6	13,345.3	134,398.7	7,693.4	3,763.3	4,263.5	0.0	63,561.9	115,044.3	14,711.3	112,143.0
Missouri	2,079,638.9	8,423.9	1,710.0	1,176,449.6	58,520.3	11,122.6	7,175.4	5,663.2	685,646.7	31,165.3	49,846.9	43,915.1
Montana	213,205.6	3,221.3	545.3	20,799.1	10,726.4	11,106.1	7,597.2	11.8	91,465.0	9,222.3	30,342.9	28,168.1
Nebraska	254,860.8	1,037.4	1,069.4	28,373.7	14,670.9	669.7	7,745.2	117.1	133,561.8	581.5	22,831.8	44,202.4
Nevada	305,900.0	1,460.1	0.0	51,158.6	131,931.7	16,703.2	6,028.6	1,297.1	45,340.8	22,984.2	22,518.6	6,477.1
New Hampshire	483,307.8	34.0	10,905.9	271,970.0	6,870.7	2,748.7	281.9	168.0	116,799.1	24,124.7	39,502.9	9,902.0
New Jersey	2,884,975.1	4,186.2	13,885.5	1,718,884.3	162,871.6	2,469.3	53,984.6	2,156.9	761,176.3	21,841.7	139,140.7	4,378.1
New Mexico	3,501,956.2	21,418.8	3,724.5	1,575,228.9	1,644,401.9	7,104.6	8,698.2	399.7	125,853.8	54,333.8	43,802.2	16,989.7
New York	8,148,161.8	3,088.3	12,525.7	2,441,993.4	1,424,442.3	10,870.0	12,196.0	3,107.3	3,553,768.5	189,457.0	431,999.5	64,713.8
North Carolina	3,271,375.6	5,687.4	15,648.3	340,959.3	80,572.0	12,548.6	22,935.6	106,020.8	2,478,366.1	9,737.4	154,985.5	43,914.6
North Dakota	140,075.8	0.0	0.0	7,169.0	34,735.1	2,648.7	8,900.7	0.0	25,260.7	1,149.8	14,605.4	45,606.4

**TABLE 91**  
**Federal obligations for research and experimental development, by state or location and selected agency: FY 2020**

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Ohio	5,215,661.1	18,380.1	3,048.3	3,749,238.0	95,123.8	9,198.7	48,484.1	64,472.9	994,463.5	97,721.8	102,733.7	32,796.1
Oklahoma	536,709.2	0.0	14,207.8	151,935.9	26,095.8	56,734.4	18,952.4	7,745.9	131,660.7	65,153.7	31,783.2	32,439.6
Oregon	814,311.9	80.0	8,080.5	91,528.3	70,877.2	24,356.6	15,572.6	9,622.5	418,648.6	13,355.9	84,090.3	78,099.5
Pennsylvania	5,214,140.2	3,865.9	7,149.0	1,375,976.5	556,702.9	10,348.2	32,295.6	847.3	2,846,498.9	49,178.0	262,388.5	68,889.4
Rhode Island	875,650.3	19.6	20,013.0	546,315.6	6,580.5	1,711.5	2,359.0	9,756.7	229,067.8	9,846.6	47,394.9	2,585.0
South Carolina	821,547.5	19,019.3	15,729.6	440,633.0	40,850.1	1,995.7	4,736.0	101.2	229,434.2	4,820.7	32,748.7	31,479.1
South Dakota	130,890.0	2,175.7	423.7	28,535.7	28,224.6	8.5	712.1	0.0	28,820.9	16,486.3	16,854.8	8,647.5
Tennessee	3,151,030.3	3,628.7	320.0	358,730.7	1,359,651.3	10,358.4	6,560.5	13,210.0	699,705.6	593,156.1	69,030.3	36,678.9
Texas	6,135,035.6	15,909.6	5,724.2	2,679,057.4	158,932.1	9,867.3	60,688.0	5,733.5	1,751,867.2	996,137.3	351,218.3	99,900.9
Utah	1,140,726.7	1,241.6	611.0	575,005.4	92,746.3	15,225.4	4,596.9	236.4	252,529.2	104,454.9	62,950.2	31,129.4
Vermont	129,254.4	2,214.3	1,965.3	17,859.5	4,121.7	1,368.5	660.4	0.0	68,324.1	2,263.8	14,531.7	15,944.9
Virginia	9,650,204.4	124,136.9	9,544.2	7,257,048.1	299,104.3	99,047.1	201,733.8	13,906.0	869,757.1	604,596.6	146,989.1	24,341.2
Washington	3,280,001.8	1,334.2	46,911.0	691,222.9	488,969.8	21,447.8	21,387.3	69.7	1,726,253.2	86,845.8	134,249.7	61,310.5
West Virginia	150,437.5	2,615.6	211.7	6,109.5	15,558.2	2,188.9	2,560.6	0.0	72,112.0	1,678.0	9,522.4	37,880.6
Wisconsin	907,886.0	96.0	5,044.4	84,271.2	93,134.7	15,516.5	3,110.9	2,171.4	519,191.3	15,223.6	106,165.7	63,960.4
Wyoming	86,676.8	0.0	304.6	2,439.5	17,878.6	26,833.4	1,872.1	0.0	12,400.0	1,592.1	19,868.7	3,487.7
Outlying areas	195,453.7	0.0	2,732.1	35,361.2	16,690.7	961.3	3,410.7	0.0	86,740.8	5,470.8	26,432.5	17,653.5
Puerto Rico	88,075.5	0.0	1,790.5	2,088.0	0.0	961.3	0.0	0.0	52,183.0	5,470.8	15,634.3	9,947.6
Other areas <sup>a</sup>	107,378.2	0.0	941.6	33,273.2	16,690.7	*	3,410.7	0.0	34,557.8	0.0	10,798.2	7,705.9
Offices abroad <sup>b</sup>	47,928.2	0.0	0.0	2,193.9	0.0	0.0	0.0	0.0	0.0	45,734.3	0.0	0.0
Undistributed <sup>c</sup>	1,829,166.2	0.0	0.0	1,829,166.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

<sup>a</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>b</sup> Includes R&D performed or administered in foreign countries by the U.S. government.

<sup>c</sup> DOD obligations for which the location of performance is not reported, and HHS Biomedical Advanced Research and Development Authority obligations for which the location of performance could not be reported for FY 2020.

**Note(s):**

Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: DHS, DOC, DOD, DOE, DOI, DOT, EPA, HHS, NASA, NSF, and USDA. 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). 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 2020–21.