

TABLE 91

Federal obligations for research and experimental development, by state or location and selected agency: FY 2019

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	138,170,254.9	637,191.0	1,533,324.0	58,235,775.6	14,374,516.6	824,028.5	1,011,941.1	485,305.0	38,926,197.0	13,536,853.3	5,971,088.2	2,634,034.6
Alabama	5,414,464.9	3,241.0	6,782.3	3,552,420.4	13,380.5	4,866.3	15,109.6	24.4	399,045.8	1,357,203.3	36,972.8	25,418.6
Alaska	334,240.4	4,226.4	8,128.1	124,183.7	4,809.7	84,056.4	2,908.9	0.0	18,841.1	18,223.3	54,723.1	14,139.5
Arizona	2,001,235.9	4,590.6	1,762.5	1,416,045.8	39,853.3	7,505.4	4,390.1	788.4	269,023.2	115,832.3	109,759.0	31,685.2
Arkansas	179,019.8	0.0	0.0	52,820.8	1,428.7	3,943.1	4,222.2	0.0	57,139.7	1,661.6	15,109.3	42,694.4
California	19,158,610.5	63,035.9	18,793.1	7,488,037.8	2,535,112.6	65,568.3	38,011.2	13,947.4	4,428,263.5	3,609,902.4	749,289.7	148,648.6
Colorado	5,267,919.7	15,115.2	260,698.5	2,046,625.7	413,474.7	64,376.9	27,117.1	5,865.1	428,240.5	1,614,311.7	330,062.9	62,031.4
Connecticut	2,673,235.2	16,411.2	18,123.8	1,802,544.1	51,682.6	2,204.6	2,803.5	1,687.7	585,714.9	123,117.8	61,326.0	7,619.2
Delaware	163,086.6	628.4	16,140.2	25,946.6	18,138.0	2,208.2	4,874.7	0.0	50,537.6	6,370.1	29,631.5	8,611.4
District of Columbia	6,228,175.8	66,717.8	26,501.8	3,621,713.3	1,081,671.4	13,568.1	181,477.4	101,537.5	270,857.6	211,947.7	265,331.9	386,851.4
Florida	3,892,005.0	12,496.9	54,316.8	2,375,829.8	46,373.8	45,106.8	29,626.1	10,645.7	685,322.7	344,862.2	209,858.0	77,566.3
Georgia	1,503,918.0	3,558.5	4,784.5	504,719.4	38,762.1	2,861.7	10,614.2	5,893.9	688,313.0	24,253.4	139,391.6	80,765.9
Hawaii	411,940.0	0.1	5,049.9	253,431.9	9,097.2	3,751.1	202.0	0.0	53,018.8	28,188.8	40,081.5	19,118.8
Idaho	919,915.3	1,532.4	0.0	40,815.5	767,580.9	11,522.7	901.6	0.0	17,417.9	25,450.7	25,256.4	29,437.2
Illinois	2,998,344.6	17,728.3	1,725.7	460,394.6	1,134,187.4	8,980.2	12,502.9	144.4	1,010,645.1	35,897.4	250,042.5	66,096.1
Indiana	894,094.8	226.0	2,794.1	327,028.8	34,088.3	3,790.5	7,154.7	1,463.4	318,038.8	21,258.2	151,388.6	26,863.6
Iowa	517,779.2	0.0	1,029.6	133,894.4	37,954.2	8,515.9	7,444.6	141.4	205,515.8	6,834.2	38,071.3	78,377.8
Kansas	282,617.3	0.0	904.0	30,869.3	10,554.1	1,798.3	6,695.1	3.0	114,879.6	3,845.1	30,979.2	82,089.6
Kentucky	313,350.7	880.0	316.9	20,316.7	10,381.0	3,081.1	3,094.0	0.0	225,335.3	4,043.3	23,725.5	22,176.9
Louisiana	432,060.3	881.2	3,207.7	124,175.1	4,356.4	23,545.7	5,272.5	343.0	174,399.5	18,952.9	29,868.7	47,057.6
Maine	189,013.5	0.3	6,364.3	24,502.4	1,950.2	1,489.4	6,752.0	40.7	116,403.8	2,807.1	19,819.2	8,884.1
Maryland	16,992,340.3	71,659.7	732,639.0	4,139,041.5	68,262.6	79,909.4	37,558.8	32,782.7	9,409,562.1	1,952,709.3	294,741.9	173,473.4
Massachusetts	6,837,816.2	53,049.8	52,403.7	2,862,295.5	146,291.8	9,988.7	74,964.0	15,000.7	2,972,597.6	161,524.5	461,775.9	27,923.9
Michigan	2,053,699.5	3,361.1	10,074.5	864,445.1	74,746.2	3,645.8	17,921.5	511.7	812,015.3	23,654.9	217,257.5	26,065.9
Minnesota	1,029,355.9	2.7	1,741.0	217,671.8	26,852.0	7,458.7	6,944.9	9,228.3	623,396.7	7,504.3	76,602.9	51,952.7
Mississippi	505,111.8	9.5	27,431.0	185,024.6	5,867.7	3,482.3	7,058.8	0.0	57,893.1	94,318.0	17,960.7	106,066.1
Missouri	2,375,132.7	3,735.7	1,051.7	1,029,961.1	518,222.5	5,597.5	12,128.0	3,760.2	635,947.0	52,863.7	47,196.3	64,668.9
Montana	191,393.8	997.2	404.5	23,920.1	3,579.3	8,963.1	3,269.7	0.0	83,499.3	8,485.4	27,990.7	30,284.4
Nebraska	243,708.3	0.8	791.5	15,153.5	8,812.3	736.6	6,217.7	0.0	127,122.7	693.8	32,319.9	51,859.6
Nevada	375,083.5	318.9	486.2	149,426.2	117,673.6	11,691.3	2,856.9	*	42,861.3	20,921.0	21,477.5	7,370.4
New Hampshire	669,304.6	6.5	8,120.2	448,162.4	17,768.9	3,570.9	776.5	150.1	119,409.2	26,527.6	35,765.4	9,047.0
New Jersey	2,834,421.1	3,362.8	33,255.6	2,104,294.2	162,048.3	3,380.8	51,915.6	3,461.4	309,235.1	25,121.5	127,077.4	11,268.5
New Mexico	3,755,707.3	36,897.1	3,985.6	1,505,216.9	1,998,745.9	6,408.3	4,840.4	630.5	96,042.9	48,953.5	38,616.5	15,369.7
New York	6,162,335.7	28,011.8	10,472.3	1,035,227.9	1,629,011.2	24,394.1	16,617.3	3,701.7	2,786,296.2	160,069.4	401,564.5	66,969.3
North Carolina	2,417,439.8	6,072.3	16,094.1	248,235.1	46,336.5	9,323.0	17,559.8	112,289.3	1,743,122.5	9,409.7	146,599.1	62,398.4
North Dakota	73,020.1	0.0	0.0	3,204.6	0.0	75.9	3,528.6	811.7	19,625.5	404.8	5,991.4	39,377.7

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Ohio	5,188,238.0	1,067.9	2,736.5	3,787,141.8	65,733.6	5,484.7	36,189.7	62,285.9	873,454.0	221,648.3	99,055.7	33,439.8
Oklahoma	505,865.6	5,610.0	61,205.9	154,646.7	18,063.5	55,459.2	16,009.8	6,542.3	106,910.1	27,408.3	28,378.1	25,631.8
Oregon	696,901.8	0.0	7,221.2	98,681.6	24,964.2	17,992.6	6,153.6	14,582.4	384,574.7	11,582.0	68,271.1	62,878.4
Pennsylvania	4,092,542.5	5,620.5	4,561.0	1,157,130.1	535,981.3	4,010.4	26,215.5	3,416.4	1,923,654.9	86,507.9	265,916.8	79,527.6
Rhode Island	722,584.7	2.7	6,290.8	415,502.7	7,309.4	2,671.7	1,532.5	10,885.9	222,078.3	3,197.0	50,364.4	2,749.3
South Carolina	645,951.1	6,230.3	17,569.5	297,827.8	40,445.9	3,941.8	5,587.6	796.2	207,579.9	4,444.3	35,830.0	25,697.8
South Dakota	88,897.7	1,437.1	0.0	12,859.1	2,902.3	1,211.7	3,518.8	0.0	26,304.1	14,757.8	15,284.5	10,622.3
Tennessee	3,578,413.6	4,789.0	157.2	617,753.5	1,545,496.5	7,330.0	8,828.3	25,429.4	572,730.3	701,788.1	60,304.3	33,807.1
Texas	5,067,493.3	17,446.9	8,003.9	1,863,173.9	78,331.3	9,765.8	9,857.3	4,862.6	1,322,533.3	1,336,483.8	322,348.5	94,685.8
Utah	1,301,136.4	586.8	440.4	478,638.3	208,409.5	4,650.0	3,481.1	449.9	224,372.8	297,976.1	50,900.4	31,231.1
Vermont	119,948.0	1,048.2	1,239.7	26,655.0	4,415.3	4,426.0	972.1	0.0	59,259.4	676.5	5,087.0	16,168.8
Virginia	8,028,901.8	170,212.4	8,440.8	6,042,694.8	225,616.5	93,025.8	236,250.5	27,426.6	505,375.2	566,367.2	127,101.8	26,390.2
Washington	3,195,255.2	3,355.3	71,544.0	1,218,605.3	441,158.5	25,786.9	11,617.8	3,739.9	1,155,393.7	77,732.9	128,255.0	58,065.9
West Virginia	141,895.2	679.1	167.6	5,869.2	25,161.5	369.3	1,641.4	0.0	61,631.8	2,158.7	12,792.7	31,423.9
Wisconsin	839,542.6	348.8	4,476.1	86,786.1	66,657.7	15,137.5	5,234.9	33.3	473,342.2	14,151.9	101,860.2	71,513.8
Wyoming	67,645.9	0.0	864.7	3,066.8	2,876.9	25,994.0	1,798.8	0.0	11,429.4	1,282.4	17,301.4	3,031.6
Outlying areas	520,697.2	0.0	1,963.8	370,477.8	1,936.6	5,404.1	1,719.1	0.0	103,814.2	565.0	18,250.1	16,566.7
Puerto Rico	81,769.7	0.0	1,547.5	1,762.9	123.5	404.1	0.0	0.0	51,190.8	565.0	16,381.8	9,794.0
Other areas ^a	438,927.5	0.0	416.3	368,714.9	1,813.0	5,000.0	1,719.1	0.0	52,623.4	0.0	1,868.3	6,772.7
Offices abroad ^b	4,335.6	0.0	66.2	3,736.3	0.0	0.0	0.0	0.0	0.0	0.0	160.0	373.2
Undistributed ^c	3,073,110.3	0.0	0.0	2,336,932.3	0.0	0.0	0.0	0.0	736,178.0	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.

^a 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.

^b Includes R&D performed or administered in foreign countries by the U.S. government.

^c 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 2019.

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 2019. 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. 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 2019–20.