

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
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
Department of Agriculture	34,846.5	9,511.0	0.0	0.0	24,737.7	0.0	50.0	0.0	547.8
Department of Commerce	4,274.8	0.0	0.0	0.0	4,274.8	0.0	0.0	0.0	0.0
Department of Defense, research	90,191.4	30,120.8	35,183.0	0.0	16,793.8	0.0	7,993.9	0.0	100.0
Department of Defense, total experimental development <sup>b</sup>	2,252,448.2	1,394,879.9	827,933.8	0.0	21,764.6	0.0	7,869.8	0.0	0.0
Department of Energy	13,072.3	0.0	499.3	0.0	12,197.0	0.0	375.9	0.0	0.0
Department of Health and Human Services	403,356.4	367.9	5,751.2	0.0	360,120.3	0.0	31,170.8	0.0	5,946.2
Department of Homeland Security	2,766.2	51.3	2,715.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	1,407.4	940.6	0.0	0.0	169.6	0.0	0.0	0.0	297.1
Department of Transportation	14,951.7	0.0	617.8	0.0	8,101.7	0.0	0.0	0.0	6,232.2
Environmental Protection Agency	162.1	0.0	0.0	0.0	162.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	198,342.4	6,908.9	174,431.4	0.0	16,139.8	0.0	862.4	0.0	0.0
National Science Foundation	54,589.9	0.0	481.0	0.0	51,544.4	0.0	2,564.4	0.0	0.0
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
Department of Agriculture	14,723.1	10,041.6	100.0	0.0	2,304.0	0.0	19.8	0.0	2,257.7
Department of Commerce	9,386.9	4,996.0	0.0	0.0	2,919.1	0.0	1,108.8	0.0	363.0
Department of Defense, research	10,752.2	97.4	5,212.6	0.0	3,942.2	0.0	1,500.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	92,481.4	26,034.9	65,264.5	0.0	1,121.4	0.0	0.0	0.0	60.5
Department of Energy	8,034.6	0.0	1,583.2	0.0	4,329.4	0.0	0.0	0.0	2,122.0
Department of Health and Human Services	16,385.0	266.8	55.0	0.0	12,690.3	0.0	977.4	0.0	2,395.4

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Department of Homeland Security	3,345.2	132.6	3,212.6	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	54,974.4	45,166.0	816.9	0.0	7,115.3	0.0	155.8	0.0	1,720.3
Department of Transportation	4,782.9	0.0	0.0	0.0	3,929.9	0.0	0.0	0.0	853.0
National Aeronautics and Space Administration	19,039.8	0.0	4,015.8	0.0	15,024.0	0.0	0.0	0.0	0.0
National Science Foundation	45,029.5	0.0	432.4	0.0	40,760.7	0.0	3,836.3	0.0	0.0
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
Department of Agriculture	31,773.8	20,529.5	0.0	0.0	9,239.3	0.0	2,005.0	0.0	0.0
Department of Commerce	2,162.1	0.0	149.9	0.0	2,012.3	0.0	0.0	0.0	0.0
Department of Defense, research	101,257.4	3,666.0	57,031.3	0.0	40,560.1	0.0	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	1,151,034.8	166,812.0	969,423.5	0.0	6,159.8	0.0	3,395.4	0.0	5,244.1
Department of Energy	42,065.1	0.0	12,716.7	0.0	29,347.1	0.0	1.3	0.0	0.0
Department of Health and Human Services	296,590.8	7,976.0	13,255.1	0.0	218,155.1	0.0	55,037.9	0.0	2,166.6
Department of Homeland Security	5,080.5	352.0	4,728.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	33,192.7	29,440.5	269.2	0.0	3,284.1	0.0	0.0	0.0	198.9
Department of Transportation	4,833.0	18.0	443.4	0.0	3,033.2	0.0	0.0	0.0	1,338.4
Environmental Protection Agency	260.5	0.0	260.5	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	145,956.3	35,107.9	34,715.4	0.0	65,450.0	0.0	10,683.0	0.0	0.0
National Science Foundation	124,641.0	0.0	4,660.9	0.0	117,197.8	0.0	2,355.5	0.0	426.8
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
Department of Agriculture	39,068.8	24,563.4	0.0	0.0	13,542.1	0.0	500.0	0.0	463.3
Department of Commerce	185.1	0.0	0.0	0.0	185.1	0.0	0.0	0.0	0.0

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Department of Defense, research	9,962.4	188.7	0.0	0.0	9,773.7	0.0	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	327,381.0	9,478.8	317,071.0	0.0	831.2	0.0	0.0	0.0	0.0
Department of Energy	9,279.4	0.0	1,356.1	0.0	7,832.9	0.0	0.0	0.0	90.3
Department of Health and Human Services	79,804.7	0.0	10,538.0	0.0	60,937.9	0.0	7,762.0	0.0	566.7
Department of the Interior	8,010.1	7,249.3	0.0	0.0	635.8	0.0	0.0	0.0	125.0
Department of Transportation	4,788.1	0.0	0.0	0.0	3,247.9	0.0	0.0	0.0	1,540.2
National Aeronautics and Space Administration	2,705.1	0.0	1,891.6	0.0	813.4	0.0	0.0	0.0	0.0
National Science Foundation	20,098.6	0.0	1,599.4	0.0	14,146.3	0.0	0.0	0.0	4,352.9
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
Department of Agriculture	168,676.4	100,396.8	542.0	0.0	67,558.2	0.0	174.5	0.0	5.0
Department of Commerce	27,734.9	448.4	3,024.9	0.0	18,960.2	0.0	5,187.1	0.0	114.4
Department of Defense, research	1,236,116.2	208,325.8	443,545.7	33,239.7	394,313.0	6,844.6	84,575.3	65,013.9	258.3
Department of Defense, total experimental development <sup>b</sup>	8,734,093.1	2,738,703.1	5,336,391.1	92,392.2	150,474.3	26,869.4	54,632.4	333,160.9	1,469.7
Department of Energy	2,609,456.6	487.9	326,197.3	972,770.2	200,502.4	1,107,778.1	1,397.0	0.0	323.5
Department of Health and Human Services	5,204,740.9	0.0	712,406.7	1,406.0	3,484,119.3	16,426.4	985,797.0	0.0	4,585.5
Department of Homeland Security	30,306.5	986.8	16,169.7	9,161.3	1,544.2	1,680.2	0.0	0.0	764.3
Department of the Interior	59,547.9	45,923.5	2,730.0	0.0	9,429.3	0.0	343.7	0.0	1,121.4
Department of Transportation	48,106.2	1,956.4	13,164.9	0.0	19,416.5	0.0	0.0	0.0	13,568.5
Environmental Protection Agency	10,482.9	0.0	6,089.5	0.0	4,393.4	0.0	0.0	0.0	0.0

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National Aeronautics and Space Administration	3,533,716.3	360,284.6	777,137.9	0.0	130,447.7	2,201,920.9	34,631.3	26,701.3	2,592.5
National Science Foundation	801,326.4	397.0	51,698.7	0.0	696,762.3	0.0	52,468.4	0.0	0.0
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
Department of Agriculture	58,936.4	40,224.4	20.0	0.0	18,365.4	0.0	326.7	0.0	0.0
Department of Commerce	163,985.2	123,971.4	982.1	0.0	34,694.3	4,167.5	169.9	0.0	0.0
Department of Defense, research	84,700.6	5,287.2	31,109.0	0.0	47,947.8	13.8	222.4	120.4	0.0
Department of Defense, total experimental development <sup>b</sup>	2,597,163.7	305,386.5	2,264,997.3	0.0	23,686.0	0.0	1,812.4	1,281.4	0.0
Department of Energy	531,784.4	576.2	40,539.7	9,899.1	66,631.9	0.0	501.1	413,252.0	384.4
Department of Health and Human Services	532,816.3	1,317.6	68,973.2	0.0	397,772.3	0.0	51,850.2	0.0	12,902.9
Department of the Interior	77,029.4	67,568.3	2,883.3	0.0	6,442.7	113.0	22.1	0.0	0.0
Department of Transportation	41,208.7	3,856.5	24,160.0	0.0	9,663.7	0.0	0.0	0.0	3,528.5
Environmental Protection Agency	5,945.7	889.4	2,144.6	0.0	2,911.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	604,322.0	76,149.0	428,816.6	0.0	78,541.2	18,524.9	2,290.2	0.0	0.0
National Science Foundation	326,269.6	1,073.2	12,990.9	0.0	154,489.5	99,700.0	57,411.2	0.0	604.8
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
Department of Agriculture	15,110.2	1,935.6	0.0	0.0	9,999.8	0.0	1,347.9	0.0	1,826.9
Department of Commerce	19,102.4	0.0	0.0	0.0	3,844.0	0.0	15,258.3	0.0	0.0
Department of Defense, research	55,176.1	920.1	29,550.4	0.0	23,454.2	0.0	1,251.4	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	1,485,356.4	4,997.4	1,464,395.4	0.0	15,963.6	0.0	0.0	0.0	0.0
Department of Energy	53,594.2	0.0	39,383.6	0.0	14,210.6	0.0	0.0	0.0	0.0

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Department of Health and Human Services	721,291.9	0.0	67,859.7	0.0	626,337.3	0.0	9,322.2	0.0	17,772.6
Department of Homeland Security	3,261.4	2,502.7	388.6	0.0	370.0	0.0	0.0	0.0	0.0
Department of the Interior	692.6	535.6	12.2	0.0	0.0	0.0	0.0	0.0	144.8
Department of Transportation	4,697.4	0.0	117.6	0.0	70.4	0.0	0.0	0.0	4,509.4
Environmental Protection Agency	325.1	0.0	325.1	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	147,247.7	3,952.8	139,181.8	0.0	4,113.2	0.0	0.0	0.0	0.0
National Science Foundation	60,326.4	0.0	1,876.8	0.0	55,893.8	0.0	2,555.8	0.0	0.0
Delaware	221,625.6	2,966.8	63,579.9	0.0	149,887.4	0.0	5,028.0	0.0	163.4
Department of Agriculture	7,069.0	1,908.3	0.0	0.0	5,160.8	0.0	0.0	0.0	0.0
Department of Commerce	22,525.9	0.0	0.0	0.0	22,330.7	0.0	195.2	0.0	0.0
Department of Defense, research	18,637.6	29.7	3,688.4	0.0	14,919.5	0.0	*	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	23,689.5	125.5	19,193.3	0.0	4,370.7	0.0	0.0	0.0	0.0
Department of Energy	23,657.7	0.0	3,880.1	0.0	19,752.8	0.0	0.0	0.0	24.9
Department of Health and Human Services	75,375.5	0.0	27,679.6	0.0	43,946.0	0.0	3,611.4	0.0	138.5
Department of Homeland Security	2,644.4	0.0	2,644.4	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	1,433.7	679.2	0.0	0.0	754.5	0.0	0.0	0.0	0.0
Department of Transportation	67.9	0.0	67.9	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	118.3	0.0	118.3	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	12,027.9	224.1	5,602.0	0.0	6,201.8	0.0	0.0	0.0	0.0
National Science Foundation	34,378.1	0.0	706.0	0.0	32,450.7	0.0	1,221.4	0.0	0.0

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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
Department of Agriculture	320,670.9	314,217.2	1,753.9	0.0	1,517.4	0.0	3,174.0	0.0	8.4
Department of Commerce	29,438.4	23,458.4	4,470.6	0.0	1,296.4	0.0	213.0	0.0	0.0
Department of Defense, research	455,557.4	386,390.7	27,732.1	0.0	27,734.5	0.0	11,291.3	2,408.8	0.0
Department of Defense, total experimental development <sup>b</sup>	3,289,276.3	2,687,667.7	510,110.2	0.0	15,541.5	0.0	73,166.7	2,790.1	0.0
Department of Energy	705,236.1	680,070.0	9,599.1	0.0	7,015.6	0.0	7,560.4	0.0	991.0
Department of Health and Human Services	10,513,541.2	9,934,318.9	274,729.3	0.0	152,664.0	0.0	149,826.1	0.0	2,002.9
Department of Homeland Security	56,956.4	21,769.2	34,411.4	0.0	0.0	0.0	775.8	0.0	0.0
Department of the Interior	22,237.0	21,326.1	7.8	0.0	607.0	0.0	296.0	0.0	0.0
Department of Transportation	191,824.4	98,919.7	61,046.0	0.0	548.6	0.0	30,859.4	0.0	450.7
Environmental Protection Agency	137,896.8	46,693.4	87,741.0	149.2	1,889.9	1,100.0	0.0	323.3	0.0
National Aeronautics and Space Administration	305,886.8	224,553.8	52,501.2	0.0	15,126.7	0.0	13,705.1	0.0	0.0
National Science Foundation	286,152.7	1,785.0	14,732.9	0.0	30,401.8	162,724.9	76,508.1	0.0	0.0
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
Department of Agriculture	81,898.3	40,137.3	0.0	0.0	32,585.1	0.0	9,175.9	0.0	0.0
Department of Commerce	30,821.6	13,359.5	0.0	0.0	15,476.9	0.0	665.3	0.0	1,319.9
Department of Defense, research	172,946.5	25,576.0	53,916.4	0.0	74,141.4	0.0	19,312.7	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	2,536,325.9	629,858.3	1,853,419.7	0.0	32,501.9	0.0	20,546.1	0.0	0.0
Department of Energy	51,670.3	0.0	9,778.8	0.0	41,779.2	0.0	0.2	0.0	112.1
Department of Health and Human Services	744,553.2	0.0	61,840.4	0.0	533,551.3	0.0	148,950.5	0.0	210.9

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Department of Homeland Security	4,526.0	1,225.8	3,002.6	0.0	297.6	0.0	0.0	0.0	0.0
Department of the Interior	44,111.7	40,302.3	406.5	0.0	2,399.2	0.0	710.0	0.0	293.7
Department of Transportation	34,119.5	258.2	1,551.4	0.0	23,092.5	0.0	0.0	0.0	9,217.3
Environmental Protection Agency	11,639.6	8,597.5	4.9	0.0	3,037.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	149,752.0	6,959.5	119,034.8	0.0	23,306.3	0.0	451.4	0.0	0.0
National Science Foundation	198,740.5	0.0	6,744.5	0.0	189,613.8	0.0	1,562.7	0.0	819.5
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
Department of Agriculture	81,114.6	51,548.8	0.0	0.0	19,042.0	0.0	10,523.8	0.0	0.0
Department of Commerce	6,441.0	0.0	171.9	0.0	6,269.2	0.0	0.0	0.0	0.0
Department of Defense, research	98,577.3	3,771.6	10,864.2	0.0	78,928.1	0.0	5,013.4	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	640,865.1	108,280.8	421,650.8	0.0	83,942.1	0.0	26,991.4	0.0	0.0
Department of Energy	45,509.0	0.0	17,678.1	0.0	23,449.9	0.0	4,381.0	0.0	0.0
Department of Health and Human Services	833,116.5	24,815.2	42,849.6	0.0	746,126.2	0.0	13,113.6	0.0	6,212.0
Department of Homeland Security	7,034.9	6.3	6,720.6	0.0	308.1	0.0	0.0	0.0	0.0
Department of the Interior	3,359.9	2,478.9	175.0	0.0	418.9	0.0	287.1	0.0	0.0
Department of Transportation	35,968.0	49.9	17,250.7	0.0	14,759.0	0.0	0.0	0.0	3,908.4
Environmental Protection Agency	8,946.9	6,225.8	127.0	0.0	2,594.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	24,670.5	590.2	10,580.1	0.0	13,500.2	0.0	0.0	0.0	0.0
National Science Foundation	127,184.1	0.0	2,810.0	0.0	122,956.0	0.0	1,418.1	0.0	0.0
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





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State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Environmental Protection Agency	1,739.7	0.0	118.3	0.0	1,621.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,087.4	80.6	660.9	0.0	2,345.9	0.0	0.0	0.0	0.0
National Science Foundation	22,352.2	0.0	225.0	0.0	22,125.2	0.0	0.0	0.0	2.0
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
Department of Agriculture	66,486.0	44,581.6	0.0	0.0	21,249.4	0.0	655.0	0.0	0.0
Department of Commerce	1,451.7	564.0	168.0	0.0	719.7	0.0	0.0	0.0	0.0
Department of Defense, research	139,762.2	30,674.9	54,454.1	0.0	52,354.5	2,193.3	85.4	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	338,594.3	83,125.7	223,516.3	0.0	21,165.9	2,501.5	8,284.9	0.0	0.0
Department of Energy	1,176,265.2	2,593.4	57,101.7	0.0	135,116.7	981,048.5	342.3	0.0	62.6
Department of Health and Human Services	1,129,057.2	3.1	54,882.3	0.0	990,258.3	3,876.8	79,808.3	0.0	228.4
Department of Homeland Security	13,126.6	9,489.5	453.4	0.0	3,183.7	0.0	0.0	0.0	0.0
Department of the Interior	8,326.5	6,304.7	0.0	0.0	1,592.6	429.2	0.0	0.0	0.0
Department of Transportation	12,220.4	280.0	1,798.2	0.0	4,185.6	265.0	290.0	0.0	5,401.5
Environmental Protection Agency	2,473.3	0.0	83.6	0.0	2,389.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	32,125.8	2,913.1	15,102.3	0.0	13,564.2	0.0	546.1	0.0	0.0
National Science Foundation	289,065.9	0.0	6,532.6	0.0	274,365.0	0.0	8,028.6	0.0	139.7
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
Department of Agriculture	19,496.8	6,464.9	0.0	0.0	12,868.4	0.0	0.0	0.0	163.4
Department of Commerce	1,920.6	44.0	0.0	0.0	1,876.6	0.0	0.0	0.0	0.0
Department of Defense, research	60,981.5	16,112.4	14,418.3	0.0	30,450.8	0.0	0.0	0.0	0.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total experimental development <sup>b</sup>	405,382.1	210,230.0	174,380.1	0.0	20,772.0	0.0	0.0	0.0	0.0
Department of Energy	39,684.2	0.0	8,776.4	0.0	30,907.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	370,920.6	0.0	12,429.6	0.0	352,537.1	0.0	0.0	0.0	5,953.9
Department of Homeland Security	624.0	225.5	0.0	0.0	398.5	0.0	0.0	0.0	0.0
Department of the Interior	8,634.5	7,167.4	0.0	0.0	1,467.0	0.0	0.0	0.0	0.0
Department of Transportation	12,946.9	0.0	81.2	0.0	2,061.6	0.0	0.0	0.0	10,804.2
Environmental Protection Agency	6,578.3	0.0	118.3	0.0	6,460.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	21,967.0	2,756.8	9,573.6	0.0	9,636.6	0.0	0.0	0.0	0.0
National Science Foundation	154,973.0	0.0	2,416.7	0.0	152,556.3	0.0	0.0	0.0	0.0
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
Department of Agriculture	81,115.1	58,100.8	0.0	0.0	22,319.4	0.0	695.0	0.0	0.0
Department of Commerce	1,387.2	0.0	1,080.6	0.0	306.6	0.0	0.0	0.0	0.0
Department of Defense, research	26,951.9	0.0	17,516.0	0.0	9,236.9	199.1	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	230,475.1	10,523.1	215,679.2	0.0	4,272.8	0.0	0.0	0.0	0.0
Department of Energy	38,484.0	0.0	467.5	0.0	6,867.3	31,149.2	0.0	0.0	0.0
Department of Health and Human Services	230,049.7	0.0	8,424.7	0.0	218,441.8	0.0	1,225.7	0.0	1,957.5
Department of Homeland Security	333.3	0.0	0.0	0.0	333.3	0.0	0.0	0.0	0.0
Department of the Interior	1,250.2	983.8	0.0	0.0	266.3	0.0	0.0	0.0	0.0
Department of Transportation	12,278.3	0.0	182.5	0.0	7,231.6	0.0	0.0	0.0	4,864.2
Environmental Protection Agency	1,370.6	0.0	73.5	0.0	1,297.1	0.0	0.0	0.0	0.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
National Aeronautics and Space Administration	35,509.0	1,174.5	837.1	0.0	33,497.4	0.0	0.0	0.0	0.0
National Science Foundation	42,863.5	0.0	450.0	0.0	42,413.5	0.0	0.0	0.0	0.0
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
Department of Agriculture	102,794.7	83,316.7	0.0	0.0	19,049.7	0.0	428.4	0.0	0.0
Department of Commerce	818.7	0.0	0.0	0.0	818.7	0.0	0.0	0.0	0.0
Department of Defense, research	17,542.1	171.6	241.2	0.0	16,346.8	0.0	782.4	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	33,119.9	4,409.9	24,472.9	0.0	4,236.9	0.0	0.1	0.0	0.0
Department of Energy	11,601.2	0.0	2,425.2	0.0	6,728.9	0.0	2,447.1	0.0	0.0
Department of Health and Human Services	119,717.7	0.0	1,346.1	0.0	117,925.4	0.0	251.1	0.0	195.1
Department of Homeland Security	776.9	0.0	776.9	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	5,771.3	4,627.4	0.0	0.0	1,143.9	0.0	0.0	0.0	0.0
Department of Transportation	15,250.3	0.0	3.2	0.0	13,438.0	0.0	0.0	0.0	1,809.1
National Aeronautics and Space Administration	5,850.1	1.8	3,758.5	0.0	2,089.8	0.0	0.0	0.0	0.0
National Science Foundation	39,094.7	0.0	2,009.6	0.0	36,466.1	0.0	619.0	0.0	0.0
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
Department of Agriculture	21,474.1	4,502.6	0.0	0.0	16,605.2	0.0	0.0	0.0	366.3
Department of Defense, research	4,174.1	383.1	22.4	0.0	3,768.6	0.0	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	20,770.3	401.3	8,972.1	0.0	11,396.8	0.0	0.0	0.0	0.0
Department of Energy	19,471.6	752.1	5,958.9	0.0	11,455.3	0.0	1,305.3	0.0	0.0
Department of Health and Human Services	243,754.1	0.0	10,625.3	0.0	231,356.5	0.0	532.2	0.0	1,240.1

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Homeland Security	751.3	1.0	0.0	0.0	750.3	0.0	0.0	0.0	0.0
Department of the Interior	2,071.5	1,378.7	0.0	0.0	692.8	0.0	0.0	0.0	0.0
Department of Transportation	2,175.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,175.4
National Aeronautics and Space Administration	4,898.3	0.0	3,059.5	0.0	1,838.8	0.0	0.0	0.0	0.0
National Science Foundation	34,711.7	0.0	816.9	0.0	33,894.7	0.0	0.0	0.0	0.0
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
Department of Agriculture	44,449.4	32,309.6	0.0	0.0	12,139.8	0.0	0.0	0.0	0.0
Department of Commerce	2,762.5	0.0	0.0	0.0	2,762.5	0.0	0.0	0.0	0.0
Department of Defense, research	12,947.8	103.2	8,570.1	0.0	3,662.2	0.0	612.3	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	92,205.5	649.5	89,449.7	0.0	2,105.9	0.0	0.0	0.0	0.4
Department of Energy	10,241.9	95.5	1,035.4	0.0	8,998.8	0.0	0.0	0.0	112.1
Department of Health and Human Services	202,287.0	2,415.4	1,497.8	0.0	188,097.9	0.0	1,638.9	0.0	8,637.0
Department of the Interior	19,239.2	17,914.8	0.0	0.0	1,229.3	0.0	0.0	0.0	95.1
Department of Transportation	8,612.3	0.0	54.5	0.0	5,712.4	0.0	0.0	0.0	2,845.4
Environmental Protection Agency	3,505.8	0.0	3,505.8	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,792.3	1.2	2,428.0	0.0	1,363.0	0.0	0.0	0.0	0.0
National Science Foundation	36,601.5	0.0	1,280.8	0.0	29,996.0	0.0	775.4	0.0	4,549.3
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
Department of Agriculture	11,556.2	3,901.4	11.6	0.0	6,698.1	0.0	274.5	0.0	670.6
Department of Commerce	3,435.1	75.0	0.0	0.0	2,732.9	0.0	365.6	0.0	261.6
Department of Defense, research	616.9	140.3	7.9	0.0	335.4	0.0	133.4	0.0	0.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total experimental development <sup>b</sup>	15,077.8	1,770.0	8,394.6	0.0	4,913.1	0.0	0.0	0.0	0.0
Department of Energy	11,799.6	0.0	1,535.8	0.0	9,827.0	0.0	324.8	0.0	112.1
Department of Health and Human Services	100,387.6	0.0	355.0	0.0	5,578.0	0.0	93,823.6	0.0	631.1
Department of Homeland Security	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	2,477.3	1,925.1	0.0	0.0	0.0	0.0	0.0	0.0	552.2
Department of Transportation	9,119.8	0.0	2,031.0	0.0	5,250.8	0.0	0.0	0.0	1,838.0
National Aeronautics and Space Administration	5,812.3	2.2	3,984.8	0.0	1,006.5	0.0	818.8	0.0	0.0
National Science Foundation	24,858.4	0.0	1,689.1	0.0	14,647.3	0.0	8,522.1	0.0	0.0
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
Department of Agriculture	192,525.9	165,633.2	0.0	0.0	26,236.9	0.0	655.9	0.0	0.0
Department of Commerce	1,020,721.3	953,532.2	27,953.4	0.0	17,327.9	0.0	990.8	19,558.0	1,359.0
Department of Defense, research	686,456.8	337,003.8	198,828.3	655.8	105,530.9	0.0	44,239.7	0.0	198.3
Department of Defense, total experimental development <sup>b</sup>	5,841,358.8	3,784,518.2	1,275,400.8	986.0	523,326.9	0.0	255,526.0	1,600.4	0.5
Department of Energy	73,386.9	2,001.9	30,068.8	0.0	31,602.9	0.0	3,001.2	0.0	6,712.1
Department of Health and Human Services	12,663,389.3	9,024,989.6	1,588,800.4	855,351.2	1,106,019.5	0.0	76,313.7	*	11,915.0
Department of Homeland Security	74,546.9	16,045.6	20,343.6	0.0	0.0	0.0	1,053.1	37,104.7	0.0
Department of the Interior	40,163.5	37,573.0	1,586.9	0.0	603.2	0.0	20.0	0.0	380.4
Department of Transportation	47,163.1	14,843.6	22,036.8	0.0	5,293.3	0.0	3,607.1	0.0	1,382.3
Environmental Protection Agency	16,769.5	0.0	15,477.4	0.0	1,292.1	0.0	0.0	0.0	0.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
National Aeronautics and Space Administration	1,760,975.3	180,882.4	1,088,158.7	0.0	280,737.6	0.0	210,919.7	276.9	0.0
National Science Foundation	318,737.5	4,322.9	191,760.9	0.0	117,281.5	0.0	5,372.3	0.0	0.0
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
Department of Agriculture	29,327.3	11,860.7	0.0	0.0	16,661.8	0.0	804.8	0.0	0.0
Department of Commerce	25,297.9	10,423.0	3,047.3	0.0	11,725.1	0.0	102.6	0.0	0.0
Department of Defense, research	620,324.3	20,082.7	267,299.6	0.0	218,692.2	67,636.7	45,438.6	1,174.4	0.0
Department of Defense, total experimental development <sup>b</sup>	2,649,402.0	310,833.2	1,763,746.3	0.0	55,340.0	319,754.3	92,237.1	107,491.0	0.0
Department of Energy	172,013.4	0.0	60,384.3	0.0	102,637.6	0.0	8,256.5	0.0	735.0
Department of Health and Human Services	4,517,104.2	0.0	1,418,627.2	0.0	1,208,918.4	0.0	1,886,157.8	0.0	3,400.8
Department of Homeland Security	33,499.3	14,952.2	15,405.1	0.0	0.0	3,107.8	34.2	0.0	0.0
Department of the Interior	19,572.4	12,623.2	1,740.4	0.0	2,827.6	0.0	1,606.6	0.0	774.7
Department of Transportation	81,494.0	51,815.3	16,517.4	0.0	7,147.0	0.0	1,890.2	0.0	4,124.2
Environmental Protection Agency	24,200.2	1,185.9	13,610.1	0.0	9,404.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	212,568.3	138,758.7	28,717.2	0.0	39,123.2	0.0	5,969.1	0.0	0.0
National Science Foundation	465,499.4	0.0	41,104.6	0.0	383,511.6	0.0	40,883.2	0.0	0.0
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
Department of Agriculture	38,471.6	2,407.6	99.8	0.0	35,964.1	0.0	0.0	0.0	0.0
Department of Commerce	7,301.9	272.0	0.0	0.0	5,975.4	0.0	1,008.4	0.0	46.0
Department of Defense, research	292,965.7	8,112.9	33,041.6	0.0	251,448.5	0.0	362.6	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	277,529.2	79,340.5	113,641.7	0.0	60,809.7	0.0	23,737.4	0.0	0.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Energy	139,804.9	0.0	41,411.0	0.0	98,393.9	0.0	0.0	0.0	0.0
Department of Health and Human Services	886,657.4	202.0	41,122.7	0.0	783,502.7	0.0	59,549.0	0.0	2,281.0
Department of Homeland Security	1,355.3	6.4	998.9	0.0	350.0	0.0	0.0	0.0	0.0
Department of the Interior	11,106.1	10,207.1	0.0	0.0	898.9	0.0	0.0	0.0	0.0
Department of Transportation	18,622.6	36.9	5,933.9	0.0	7,425.6	0.0	0.0	0.0	5,226.3
Environmental Protection Agency	278.2	0.0	278.2	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	44,770.4	13,977.1	4,093.7	0.0	26,699.6	0.0	0.0	0.0	0.0
National Science Foundation	205,962.4	0.0	4,512.7	0.0	201,387.5	0.0	62.1	0.0	0.0
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
Department of Agriculture	48,959.3	23,186.1	273.6	0.0	25,499.5	0.0	0.0	0.0	0.0
Department of Commerce	1,837.9	42.0	47.7	0.0	1,748.2	0.0	0.0	0.0	0.0
Department of Defense, research	45,273.2	1,110.7	24,391.5	0.0	15,858.8	0.0	3,912.2	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	465,786.1	20,583.1	381,028.4	0.0	14,776.2	0.0	49,398.4	0.0	0.0
Department of Energy	27,371.5	0.0	11,253.5	0.0	16,113.9	0.0	0.0	0.0	4.2
Department of Health and Human Services	731,113.3	0.0	35,814.1	0.0	336,923.7	0.0	354,552.4	0.0	3,823.1
Department of Homeland Security	59.2	0.0	59.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	7,152.5	5,478.4	0.0	0.0	1,415.2	0.0	0.0	0.0	259.0
Department of Transportation	6,522.4	0.0	1,480.1	0.0	0.0	0.0	0.0	0.0	5,042.4
Environmental Protection Agency	8,992.0	8,745.7	0.0	0.0	246.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	12,392.9	1,715.4	5,886.0	0.0	4,791.4	0.0	0.0	0.0	0.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
National Science Foundation	92,095.1	0.0	5,521.0	0.0	81,807.2	0.0	4,766.9	0.0	0.0
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
Department of Agriculture	112,143.0	78,553.4	106.5	0.0	32,965.4	0.0	79.7	0.0	437.9
Department of Commerce	13,345.3	146.0	0.0	0.0	13,149.3	0.0	0.0	0.0	50.0
Department of Defense, research	23,284.4	17,875.3	822.3	0.0	4,586.7	0.0	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	111,114.3	93,872.9	15,330.9	0.0	180.8	0.0	1,729.8	0.0	0.0
Department of Energy	7,693.4	320.0	1,610.3	0.0	5,763.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	63,561.9	0.0	0.0	0.0	62,343.1	0.0	0.0	0.0	1,218.8
Department of Homeland Security	3,045.6	2,904.6	141.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	3,763.3	3,150.7	0.0	0.0	487.2	0.0	0.0	0.0	125.5
Department of Transportation	4,263.5	28.1	100.0	0.0	4,135.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	115,044.3	102,835.8	10,803.3	0.0	1,405.2	0.0	0.0	0.0	0.0
National Science Foundation	14,711.3	0.0	0.0	0.0	14,711.3	0.0	0.0	0.0	0.0
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
Department of Agriculture	43,915.1	22,210.6	0.0	0.0	19,795.9	0.0	1,908.5	0.0	0.0
Department of Commerce	1,710.0	1,504.1	0.0	0.0	206.0	0.0	0.0	0.0	0.0
Department of Defense, research	40,007.1	2,685.3	19,003.5	0.0	16,353.4	0.0	1,964.8	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	1,136,442.5	72,213.8	1,043,858.0	0.0	19,724.5	0.0	646.2	0.0	0.0
Department of Energy	58,520.3	1.2	31,754.1	0.0	21,809.1	0.0	4,955.9	0.0	0.0
Department of Health and Human Services	685,646.7	0.0	25,492.5	0.0	634,487.5	0.0	24,237.8	0.0	1,429.0



TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Homeland Security	8,423.9	7,613.1	810.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	11,122.6	10,395.3	0.0	0.0	212.2	0.0	0.0	0.0	515.1
Department of Transportation	7,175.4	250.0	355.2	0.0	3,694.6	0.0	0.0	0.0	2,875.6
Environmental Protection Agency	5,663.2	0.0	4,365.3	0.0	1,297.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	31,165.3	9,276.8	13,151.8	0.0	8,736.7	0.0	0.0	0.0	0.0
National Science Foundation	49,846.9	0.0	1,261.3	0.0	44,118.8	0.0	4,466.8	0.0	0.0
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
Department of Agriculture	28,168.1	15,277.0	339.2	0.0	12,551.9	0.0	0.0	0.0	0.0
Department of Commerce	545.3	0.0	38.4	0.0	506.9	0.0	0.0	0.0	0.0
Department of Defense, research	7,530.2	0.0	2,334.1	0.0	4,996.1	0.0	200.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	13,268.9	543.6	8,002.6	0.0	4,722.7	0.0	0.0	0.0	0.0
Department of Energy	10,726.4	0.0	3,111.9	0.0	7,614.5	0.0	0.0	0.0	0.0
Department of Health and Human Services	91,465.0	37,058.6	10,555.9	0.0	41,257.8	0.0	1,554.8	0.0	1,038.0
Department of Homeland Security	3,221.3	0.0	0.0	0.0	3,221.3	0.0	0.0	0.0	0.0
Department of the Interior	11,106.1	9,184.0	0.0	0.0	1,871.4	0.0	0.0	0.0	50.6
Department of Transportation	7,597.2	3,222.3	0.0	0.0	2,847.9	0.0	0.0	0.0	1,527.0
Environmental Protection Agency	11.8	0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	9,222.3	3.1	3,137.0	0.0	6,082.3	0.0	0.0	0.0	0.0
National Science Foundation	30,342.9	0.0	1,514.9	0.0	28,728.4	0.0	99.6	0.0	0.0
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

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Agriculture	44,202.4	29,650.4	100.0	0.0	14,452.0	0.0	0.0	0.0	0.0
Department of Commerce	1,069.4	0.0	0.0	0.0	1,069.4	0.0	0.0	0.0	0.0
Department of Defense, research	7,653.2	1,186.5	854.4	0.0	5,612.2	0.0	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	20,720.5	7,542.1	5,762.8	0.0	882.0	0.0	6,533.6	0.0	0.0
Department of Energy	14,670.9	0.0	4,306.3	0.0	10,364.6	0.0	0.0	0.0	0.0
Department of Health and Human Services	133,561.8	0.0	1,792.7	0.0	124,332.6	0.0	7,083.3	0.0	353.2
Department of Homeland Security	1,037.4	0.0	0.0	0.0	1,037.4	0.0	0.0	0.0	0.0
Department of the Interior	669.7	499.2	0.0	0.0	170.6	0.0	0.0	0.0	0.0
Department of Transportation	7,745.2	0.0	0.0	0.0	5,873.8	0.0	0.0	0.0	1,871.3
Environmental Protection Agency	117.1	0.0	117.1	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	581.5	351.2	52.6	0.0	177.7	0.0	0.0	0.0	0.0
National Science Foundation	22,831.8	0.0	983.7	0.0	21,848.1	0.0	0.0	0.0	0.0
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
Department of Agriculture	6,477.1	2,456.5	18.7	0.0	3,952.1	0.0	49.8	0.0	0.0
Department of Defense, research	8,407.5	27.2	5,216.3	0.0	3,164.0	0.0	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	42,751.0	2,388.2	39,330.1	0.0	1,032.7	0.0	0.0	0.0	0.0
Department of Energy	131,931.7	1,274.7	129,166.5	0.0	728.8	0.0	761.7	0.0	0.0
Department of Health and Human Services	45,340.8	0.0	3,922.2	0.0	38,442.5	0.0	1,328.1	0.0	1,648.0
Department of Homeland Security	1,460.1	0.0	1,460.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	16,703.2	11,978.8	1,076.0	0.0	3,233.4	0.0	365.0	0.0	50.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Transportation	6,028.6	0.0	0.0	0.0	2,947.9	0.0	0.0	0.0	3,080.7
Environmental Protection Agency	1,297.1	0.0	0.0	0.0	1,297.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	22,984.2	1,561.7	19,224.2	0.0	2,198.3	0.0	0.0	0.0	0.0
National Science Foundation	22,518.6	0.0	1,000.0	0.0	21,518.6	0.0	0.0	0.0	0.0
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
Department of Agriculture	9,902.0	5,484.3	0.0	0.0	4,360.2	0.0	57.4	0.0	0.0
Department of Commerce	10,905.9	238.0	399.1	0.0	9,831.9	0.0	436.8	0.0	0.0
Department of Defense, research	55,115.1	27,023.0	13,766.2	0.0	14,325.9	0.0	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	216,854.8	22,321.8	189,280.5	0.0	2,029.5	0.0	3,223.0	0.0	0.0
Department of Energy	6,870.7	0.0	3,417.0	0.0	3,335.4	0.0	0.0	0.0	118.3
Department of Health and Human Services	116,799.1	0.0	17,144.6	0.0	89,816.2	0.0	9,524.3	0.0	314.1
Department of Homeland Security	34.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	2,748.7	1,934.5	9.3	0.0	687.1	0.0	0.0	0.0	117.9
Department of Transportation	281.9	0.0	192.6	0.0	0.0	0.0	0.0	0.0	89.2
Environmental Protection Agency	168.0	0.0	168.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	24,124.7	6,092.9	6,587.3	0.0	11,444.5	0.0	0.0	0.0	0.0
National Science Foundation	39,502.9	0.0	269.7	0.0	39,171.6	0.0	61.6	0.0	0.0
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
Department of Agriculture	4,378.1	95.1	0.0	0.0	3,983.0	0.0	275.0	0.0	25.0
Department of Commerce	13,885.5	0.0	0.0	0.0	13,885.5	0.0	0.0	0.0	0.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, research	135,568.8	16,643.8	82,921.9	0.0	35,613.3	0.0	389.7	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	1,583,315.5	525,380.5	768,110.7	0.0	282,599.7	2,992.5	4,232.0	0.0	0.0
Department of Energy	162,871.6	0.0	15,019.8	0.0	31,331.3	115,973.6	546.9	0.0	0.0
Department of Health and Human Services	761,176.3	0.0	450,642.7	0.0	260,846.6	0.0	31,464.0	0.0	18,223.0
Department of Homeland Security	4,186.2	359.4	3,826.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	2,469.3	1,210.4	499.9	0.0	583.0	0.0	0.0	0.0	176.0
Department of Transportation	53,984.6	21,681.6	16,554.3	0.0	7,720.7	0.0	1,385.6	0.0	6,642.4
Environmental Protection Agency	2,156.9	1,778.8	256.5	0.0	121.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	21,841.7	2,406.1	4,390.0	0.0	14,999.3	0.0	46.3	0.0	0.0
National Science Foundation	139,140.7	0.0	3,053.5	0.0	132,318.1	0.0	3,769.1	0.0	0.0
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
Department of Agriculture	16,989.7	7,006.0	13.0	0.0	4,812.2	0.0	5,158.6	0.0	0.0
Department of Commerce	3,724.5	3,393.9	330.6	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, research	403,908.2	105,022.8	231,884.9	46,508.8	16,006.2	0.0	4,475.3	0.0	10.3
Department of Defense, total experimental development <sup>b</sup>	1,171,320.7	407,679.6	510,093.0	246,259.1	7,262.1	0.0	26.5	0.0	0.4
Department of Energy	1,644,401.9	147,093.3	12,216.9	1,466,400.0	18,063.3	0.0	628.4	0.0	0.0
Department of Health and Human Services	125,853.8	0.0	5,753.5	5,376.1	89,780.5	0.0	24,587.0	0.0	356.6
Department of Homeland Security	21,418.8	8,823.7	10,828.1	1,767.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	7,104.6	4,646.3	259.6	0.0	2,132.7	0.0	66.0	0.0	0.0
Department of Transportation	8,698.2	1,914.2	3,259.8	0.0	3,020.9	0.0	0.0	0.0	503.3

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Environmental Protection Agency	399.7	0.0	359.2	0.0	40.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	54,333.8	1,513.9	39,009.9	10,204.4	3,605.6	0.0	0.0	0.0	0.0
National Science Foundation	43,802.2	660.0	1,829.9	0.0	39,306.2	0.0	2,006.2	0.0	0.0
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
Department of Agriculture	64,713.8	29,937.7	0.0	0.0	31,973.9	0.0	2,802.2	0.0	0.0
Department of Commerce	12,525.7	44.0	0.0	0.0	12,441.0	0.0	40.7	0.0	0.0
Department of Defense, research	1,138,505.0	791,843.8	177,121.0	0.0	130,631.8	0.0	38,411.7	199.1	297.5
Department of Defense, total experimental development <sup>b</sup>	1,303,488.4	537,559.8	669,863.6	0.0	61,287.3	0.0	31,376.8	3,400.5	0.4
Department of Energy	1,424,442.3	205.4	821,921.5	0.0	80,118.8	0.0	2,099.8	515,147.0	4,949.8
Department of Health and Human Services	3,553,768.5	0.0	546,543.1	0.0	2,455,204.9	0.0	434,993.2	3,600.0	113,427.3
Department of Homeland Security	3,088.3	1,230.9	1,406.7	0.0	0.0	0.0	450.7	0.0	0.0
Department of the Interior	10,870.0	9,773.5	0.0	0.0	678.4	0.0	0.0	0.0	418.1
Department of Transportation	12,196.0	0.0	1,416.9	0.0	6,258.0	0.0	162.6	0.0	4,358.5
Environmental Protection Agency	3,107.3	0.0	1,697.4	0.0	1,409.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	189,457.0	8,000.9	134,794.4	0.0	36,711.5	0.0	984.3	8,068.4	897.5
National Science Foundation	431,999.5	0.0	20,162.4	0.0	392,744.7	0.0	16,547.9	0.0	2,544.5
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
Department of Agriculture	43,914.6	14,404.1	0.0	0.0	28,602.2	0.0	422.1	0.0	486.2
Department of Commerce	15,648.3	4,790.0	5,971.1	0.0	4,774.3	0.0	49.9	0.0	63.0
Department of Defense, research	140,515.7	1,666.0	41,141.1	0.0	70,338.6	0.0	27,370.0	0.0	0.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total experimental development <sup>b</sup>	200,443.6	35,534.3	121,687.8	0.0	41,478.3	0.0	1,593.2	0.0	150.0
Department of Energy	80,572.0	155.3	29,237.5	0.0	46,729.1	0.0	4,225.9	0.0	224.2
Department of Health and Human Services	2,478,366.1	185,166.8	376,070.6	0.0	1,285,392.1	0.0	624,787.8	0.0	6,948.8
Department of Homeland Security	5,687.4	176.8	4,421.8	0.0	1,088.8	0.0	0.0	0.0	0.0
Department of the Interior	12,548.6	10,249.1	32.5	0.0	2,048.0	0.0	0.0	0.0	219.0
Department of Transportation	22,935.6	188.3	3,010.3	0.0	16,143.1	0.0	0.0	0.0	3,593.9
Environmental Protection Agency	106,020.8	96,944.3	6,758.3	0.0	2,318.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	9,737.4	182.3	3,687.8	0.0	4,117.4	0.0	1,750.0	0.0	0.0
National Science Foundation	154,985.5	0.0	11,183.0	0.0	142,354.6	0.0	1,447.9	0.0	0.0
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
Department of Agriculture	45,606.4	33,889.4	0.0	0.0	11,717.0	0.0	0.0	0.0	0.0
Department of Defense, research	6,326.4	0.0	0.0	0.0	6,326.4	0.0	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	842.7	0.0	0.0	0.0	842.7	0.0	0.0	0.0	0.0
Department of Energy	34,735.1	0.0	250.0	0.0	34,485.1	0.0	0.0	0.0	0.0
Department of Health and Human Services	25,260.7	0.0	0.0	0.0	23,493.0	0.0	673.4	0.0	1,094.3
Department of the Interior	2,648.7	2,648.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	8,900.7	0.0	1,784.2	0.0	6,720.0	0.0	0.0	0.0	396.5
National Aeronautics and Space Administration	1,149.8	0.0	444.4	0.0	705.4	0.0	0.0	0.0	0.0
National Science Foundation	14,605.4	0.0	0.0	0.0	14,605.4	0.0	0.0	0.0	0.0
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

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Agriculture	32,796.1	11,626.0	0.0	0.0	21,170.2	0.0	0.0	0.0	0.0
Department of Commerce	3,048.3	588.0	14.2	0.0	2,435.1	0.0	11.0	0.0	0.0
Department of Defense, research	425,314.4	112,242.0	210,742.3	0.0	86,994.2	0.0	15,336.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	3,323,923.6	1,652,406.8	1,603,905.7	0.0	38,354.0	0.0	29,257.1	0.0	0.0
Department of Energy	95,123.8	230.0	58,709.6	0.0	36,182.7	0.0	1.5	0.0	0.0
Department of Health and Human Services	994,463.5	24,210.7	34,604.3	0.0	665,589.2	0.0	235,191.8	0.0	34,867.5
Department of Homeland Security	18,380.1	8,428.9	9,951.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	9,198.7	8,728.9	0.0	0.0	172.6	0.0	0.0	0.0	297.2
Department of Transportation	48,484.1	180.0	22,519.4	0.0	12,739.2	0.0	976.5	0.0	12,069.0
Environmental Protection Agency	64,472.9	48,027.4	16,324.4	0.0	121.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	97,721.8	18,477.9	71,978.9	0.0	6,824.1	0.0	441.0	0.0	0.0
National Science Foundation	102,733.7	0.0	4,056.7	0.0	97,330.5	0.0	1,346.4	0.0	0.0
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
Department of Agriculture	32,439.6	20,612.8	0.0	0.0	11,776.8	0.0	0.0	0.0	49.9
Department of Commerce	14,207.8	799.0	38.2	0.0	13,370.5	0.0	0.0	0.0	0.0
Department of Defense, research	19,511.5	1,258.1	5,335.5	0.0	12,917.8	0.0	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	132,424.4	91,136.0	39,343.6	0.0	1,944.8	0.0	0.0	0.0	0.0
Department of Energy	26,095.8	1.1	6,744.3	0.0	19,118.8	0.0	7.3	0.0	224.2
Department of Health and Human Services	131,660.7	0.0	6,391.7	0.0	87,683.8	0.0	32,600.7	0.0	4,984.4
Department of the Interior	56,734.4	55,109.8	0.0	0.0	1,543.0	0.0	0.0	0.0	81.6

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Transportation	18,952.4	9,456.0	6,456.9	0.0	486.9	0.0	0.0	0.0	2,552.6
Environmental Protection Agency	7,745.9	6,374.0	0.0	0.0	1,371.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	65,153.7	265.6	964.3	0.0	63,588.4	0.0	335.4	0.0	0.0
National Science Foundation	31,783.2	0.0	284.3	0.0	30,149.4	0.0	1,083.9	0.0	265.6
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
Department of Agriculture	78,099.5	53,857.5	345.5	0.0	23,471.4	0.0	374.7	0.0	50.4
Department of Commerce	8,080.5	0.0	0.0	0.0	7,351.7	0.0	299.5	0.0	429.2
Department of Defense, research	47,828.0	233.9	33,721.2	0.0	13,872.9	0.0	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	43,700.3	4,679.5	23,596.9	0.0	15,424.0	0.0	0.0	0.0	0.0
Department of Energy	70,877.2	83.8	31,264.4	0.0	39,455.1	0.0	0.0	0.0	73.9
Department of Health and Human Services	418,648.6	0.0	23,013.8	0.0	373,888.0	0.0	20,562.1	0.0	1,184.7
Department of Homeland Security	80.0	0.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	24,356.6	18,426.5	132.0	0.0	4,658.4	0.0	99.0	0.0	1,040.8
Department of Transportation	15,572.6	0.0	20.5	0.0	6,308.8	0.0	0.0	0.0	9,243.3
Environmental Protection Agency	9,622.5	9,338.7	283.9	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	13,355.9	2,647.9	4,398.1	0.0	6,310.0	0.0	0.0	0.0	0.0
National Science Foundation	84,090.3	0.0	7,407.2	0.0	71,900.3	0.0	4,782.7	0.0	0.0
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
Department of Agriculture	68,889.4	48,327.9	28.0	0.0	19,072.0	0.0	1,461.4	0.0	0.0
Department of Commerce	7,149.0	44.0	1,116.8	0.0	4,553.9	0.0	1,434.3	0.0	0.0



TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, research	182,202.8	19,003.7	36,773.6	0.0	120,657.2	4,953.0	815.2	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	1,193,773.7	293,621.2	695,984.5	0.0	168,744.4	29,109.8	6,313.6	0.0	0.2
Department of Energy	556,702.9	25,902.5	479,726.1	0.0	48,556.4	0.0	2,517.9	0.0	0.0
Department of Health and Human Services	2,846,498.9	20,120.2	911,210.6	0.0	1,540,364.9	0.0	363,511.4	0.0	11,291.9
Department of Homeland Security	3,865.9	0.0	3,265.1	0.0	600.8	0.0	0.0	0.0	0.0
Department of the Interior	10,348.2	9,070.0	360.0	0.0	715.2	0.0	0.0	0.0	203.0
Department of Transportation	32,295.6	60.0	2,284.6	0.0	18,239.5	0.0	1,533.7	0.0	10,177.8
Environmental Protection Agency	847.3	0.0	847.3	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	49,178.0	3,870.8	25,462.2	0.0	19,253.3	0.0	591.8	0.0	0.0
National Science Foundation	262,388.5	0.0	9,178.2	0.0	250,502.9	0.0	2,707.3	0.0	0.0
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
Department of Agriculture	2,585.0	32.6	0.0	0.0	2,552.4	0.0	0.0	0.0	0.0
Department of Commerce	20,013.0	0.0	0.0	0.0	19,447.3	0.0	565.7	0.0	0.0
Department of Defense, research	47,831.9	26,241.2	5,890.9	0.0	15,649.7	0.0	50.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	498,483.8	315,096.7	174,263.8	0.0	7,080.0	0.0	2,043.3	0.0	0.0
Department of Energy	6,580.5	0.0	161.8	0.0	6,379.7	0.0	39.0	0.0	0.0
Department of Health and Human Services	229,067.8	0.0	4,040.4	0.0	140,009.1	0.0	84,190.5	0.0	827.9
Department of Homeland Security	19.6	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	1,711.5	70.0	800.0	0.0	841.5	0.0	0.0	0.0	0.0
Department of Transportation	2,359.0	0.0	14.8	0.0	250.0	0.0	0.0	0.0	2,094.2

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Environmental Protection Agency	9,756.7	9,635.1	0.0	0.0	121.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	9,846.6	0.9	6,273.1	0.0	3,572.5	0.0	0.0	0.0	0.0
National Science Foundation	47,394.9	0.0	256.0	0.0	44,706.0	0.0	2,432.9	0.0	0.0
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
Department of Agriculture	31,479.1	14,760.8	0.0	0.0	15,718.3	0.0	1,000.0	0.0	0.0
Department of Commerce	15,729.6	12,039.5	0.0	0.0	2,628.5	0.0	428.7	0.0	632.9
Department of Defense, research	57,593.4	8,722.1	4,174.2	596.0	16,014.9	0.0	28,086.2	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	383,039.6	70,363.4	154,956.2	87.6	3,527.8	0.0	154,104.6	0.0	0.0
Department of Energy	40,850.1	0.0	3,031.4	25,367.6	11,789.1	0.0	543.7	0.0	118.3
Department of Health and Human Services	229,434.2	0.0	21,449.5	0.0	202,457.1	0.0	1,872.2	0.0	3,655.4
Department of Homeland Security	19,019.3	0.0	18,505.1	514.2	0.0	0.0	0.0	0.0	0.0
Department of the Interior	1,995.7	1,306.6	0.0	0.0	533.9	0.0	0.0	0.0	155.2
Department of Transportation	4,736.0	300.0	1,574.8	0.0	882.3	0.0	0.0	0.0	1,979.0
Environmental Protection Agency	101.2	0.0	101.2	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,820.7	*	1,325.0	0.0	3,400.0	0.0	95.7	0.0	0.0
National Science Foundation	32,748.7	259.5	225.0	0.0	32,264.2	0.0	0.0	0.0	0.0
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
Department of Agriculture	8,647.5	3,411.6	0.0	0.0	5,213.2	0.0	0.0	0.0	22.7
Department of Commerce	423.7	0.0	0.0	0.0	310.0	0.0	0.0	0.0	113.7
Department of Defense, research	1,674.9	0.0	691.4	0.0	982.5	0.0	1.0	0.0	0.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total experimental development <sup>b</sup>	26,860.8	621.8	26,089.9	0.0	149.2	0.0	0.0	0.0	0.0
Department of Energy	28,224.6	0.0	3,621.4	0.0	656.0	0.0	0.0	0.0	23,947.3
Department of Health and Human Services	28,820.9	0.0	1,488.8	0.0	9,607.2	0.0	16,342.4	0.0	1,382.5
Department of Homeland Security	2,175.7	0.0	2,175.7	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	8.5	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	712.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	712.1
National Aeronautics and Space Administration	16,486.3	12,535.0	3,612.1	0.0	339.2	0.0	0.0	0.0	0.0
National Science Foundation	16,854.8	0.0	682.9	0.0	11,260.7	0.0	4,911.2	0.0	0.0
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
Department of Agriculture	36,678.9	14,998.4	0.0	0.0	21,227.6	0.0	0.0	0.0	452.8
Department of Commerce	320.0	0.0	0.0	0.0	320.0	0.0	0.0	0.0	0.0
Department of Defense, research	76,071.5	10,757.5	4,243.1	0.0	39,933.2	0.0	15,244.7	5,893.0	0.0
Department of Defense, total experimental development <sup>b</sup>	282,659.2	168,947.2	90,906.4	0.0	17,218.8	0.0	135.0	5,451.8	0.0
Department of Energy	1,359,651.3	981.2	131,062.1	14,712.3	47,765.8	0.5	69,973.5	1,089,008.9	6,147.0
Department of Health and Human Services	699,705.6	290.0	11,747.9	0.0	199,836.0	0.0	486,638.8	421.8	771.2
Department of Homeland Security	3,628.7	0.0	2,000.9	0.0	1,348.0	0.0	0.0	279.9	0.0
Department of the Interior	10,358.4	8,136.7	0.0	0.0	2,050.1	0.0	0.0	0.0	171.5
Department of Transportation	6,560.5	3,521.2	17.9	0.0	500.0	0.0	0.0	400.0	2,121.4
Environmental Protection Agency	13,210.0	0.0	11,928.5	0.0	1,281.5	0.0	0.0	0.0	0.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
National Aeronautics and Space Administration	593,156.1	577,630.6	12,976.6	0.0	2,548.9	0.0	0.0	0.0	0.0
National Science Foundation	69,030.3	703.7	1,841.2	0.0	63,142.2	0.0	3,343.1	0.0	0.0
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
Department of Agriculture	99,900.9	50,354.8	106.5	0.0	45,793.9	0.0	3,006.6	0.0	639.0
Department of Commerce	5,724.2	0.0	384.1	0.0	5,331.0	0.0	0.0	0.0	9.0
Department of Defense, research	209,522.1	5,082.4	87,487.1	0.0	103,248.1	0.0	13,587.2	117.3	0.0
Department of Defense, total experimental development <sup>b</sup>	2,469,535.3	105,235.2	2,179,043.8	0.0	107,081.8	0.0	77,718.1	154.9	301.5
Department of Energy	158,932.1	0.0	27,007.1	0.0	125,229.1	0.0	6,515.2	0.0	180.6
Department of Health and Human Services	1,751,867.2	0.0	49,686.3	0.0	1,625,817.6	0.0	65,850.3	0.0	10,513.0
Department of Homeland Security	15,909.6	44.2	9,783.6	0.0	6,081.8	0.0	0.0	0.0	0.0
Department of the Interior	9,867.3	6,238.0	1,996.4	0.0	1,481.3	0.0	0.0	0.0	151.5
Department of Transportation	60,688.0	285.3	17,255.4	0.0	9,673.6	0.0	0.0	0.0	33,473.7
Environmental Protection Agency	5,733.5	0.0	3,139.4	0.0	2,594.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	996,137.3	642,761.7	314,071.8	0.0	39,303.8	0.0	0.0	0.0	0.0
National Science Foundation	351,218.3	0.0	13,134.3	0.0	337,058.7	0.0	1,025.3	0.0	0.0
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
Department of Agriculture	31,129.4	24,951.9	8.0	0.0	6,169.5	0.0	0.0	0.0	0.0
Department of Commerce	611.0	0.0	0.0	0.0	611.0	0.0	0.0	0.0	0.0
Department of Defense, research	134,329.2	1,029.1	111,454.9	0.0	21,845.2	0.0	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	440,676.2	140,178.9	193,869.4	0.0	101,377.9	0.0	5,250.0	0.0	0.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Energy	92,746.3	0.0	16,273.3	0.0	76,473.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	252,529.2	0.0	14,480.3	0.0	236,181.4	0.0	1,637.9	0.0	229.7
Department of Homeland Security	1,241.6	0.0	898.6	0.0	343.0	0.0	0.0	0.0	0.0
Department of the Interior	15,225.4	10,798.4	93.0	0.0	3,077.8	0.0	258.0	0.0	998.2
Department of Transportation	4,596.9	41.4	2,500.0	0.0	400.0	0.0	0.0	0.0	1,655.6
Environmental Protection Agency	236.4	0.0	236.4	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	104,454.9	104.7	4,260.4	0.0	19,801.3	0.0	80,252.9	0.0	35.7
National Science Foundation	62,950.2	0.0	2,129.4	0.0	60,520.8	0.0	0.0	0.0	300.0
Vermont	129,254.4	4,474.0	35,244.9	0.0	85,902.2	0.0	*	0.0	3,633.3
Department of Agriculture	15,944.9	3,113.0	0.0	0.0	12,831.9	0.0	0.0	0.0	0.0
Department of Commerce	1,965.3	0.0	0.0	0.0	1,965.3	0.0	0.0	0.0	0.0
Department of Defense, research	2,042.2	0.0	1,707.9	0.0	334.3	0.0	*	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	15,817.3	138.5	15,508.1	0.0	170.8	0.0	0.0	0.0	0.0
Department of Energy	4,121.7	0.0	3,674.7	0.0	447.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	68,324.1	0.0	8,828.0	0.0	56,471.4	0.0	0.0	0.0	3,024.8
Department of Homeland Security	2,214.3	0.0	2,214.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	1,368.5	1,184.5	0.0	0.0	85.9	0.0	0.0	0.0	98.1
Department of Transportation	660.4	0.0	0.0	0.0	149.9	0.0	0.0	0.0	510.5
National Aeronautics and Space Administration	2,263.8	38.0	2,151.8	0.0	74.0	0.0	0.0	0.0	0.0
National Science Foundation	14,531.7	0.0	1,160.2	0.0	13,371.6	0.0	0.0	0.0	0.0

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
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
Department of Agriculture	24,341.2	1,180.8	0.0	0.0	20,171.5	0.0	2,989.0	0.0	0.0
Department of Commerce	9,544.2	1,863.0	564.5	0.0	6,766.0	0.0	299.6	0.0	51.0
Department of Defense, research	1,017,668.9	135,736.1	653,144.8	0.0	146,072.8	0.0	11,258.1	70,845.2	611.9
Department of Defense, total experimental development <sup>b</sup>	6,239,379.2	1,635,155.6	4,178,262.7	0.0	76,768.2	0.0	63,572.6	285,513.9	106.2
Department of Energy	299,104.3	7,555.2	90,009.4	0.0	34,720.5	136,883.5	23,223.5	0.0	6,712.2
Department of Health and Human Services	869,757.1	654.6	495,137.3	0.0	309,330.3	0.0	38,138.0	26,277.5	219.4
Department of Homeland Security	124,136.9	35,146.4	57,815.7	0.0	5,379.1	0.0	346.0	25,449.8	0.0
Department of the Interior	99,047.1	96,576.8	1,345.2	0.0	525.0	0.0	0.0	0.0	600.1
Department of Transportation	201,733.8	8,258.8	93,262.8	0.0	11,747.7	0.0	12,119.2	69,271.7	7,073.5
Environmental Protection Agency	13,906.0	0.0	13,865.5	0.0	40.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	604,596.6	97,089.6	474,648.5	0.0	14,340.8	0.0	18,517.6	0.0	0.0
National Science Foundation	146,989.1	0.0	6,106.3	0.0	122,735.9	0.0	13,406.9	4,740.0	0.0
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
Department of Agriculture	61,310.5	39,538.5	47.9	0.0	21,517.6	0.0	182.0	0.0	24.5
Department of Commerce	46,911.0	24,744.1	326.5	0.0	21,440.3	0.0	6.8	293.0	100.4
Department of Defense, research	104,041.8	5,743.1	13,422.2	0.0	58,782.6	0.0	6,054.8	20,039.1	0.0
Department of Defense, total experimental development <sup>b</sup>	587,181.1	186,236.2	301,465.6	0.0	34,578.3	0.0	54,741.1	10,160.0	0.0
Department of Energy	488,969.8	0.0	29,377.2	7,343.4	46,607.6	2,283.7	525.2	402,475.6	357.0
Department of Health and Human Services	1,726,253.2	5,602.4	60,916.4	0.0	576,329.2	0.0	1,045,451.8	17,809.9	20,143.5

TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Homeland Security	1,334.2	0.0	0.0	0.0	0.0	0.0	0.0	1,334.2	0.0
Department of the Interior	21,447.8	16,603.3	245.3	0.0	3,645.2	0.0	0.0	509.2	444.8
Department of Transportation	21,387.3	589.1	120.3	0.0	8,874.6	0.0	1,718.6	354.1	9,730.6
Environmental Protection Agency	69.7	0.0	0.0	0.0	69.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	86,845.8	3,215.3	65,083.1	0.0	18,231.0	0.0	316.4	0.0	0.0
National Science Foundation	134,249.7	0.0	10,142.5	0.0	121,745.5	0.0	2,078.2	0.0	283.3
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
Department of Agriculture	37,880.6	26,217.5	0.0	0.0	11,623.6	0.0	0.0	0.0	39.5
Department of Commerce	211.7	0.0	0.0	0.0	211.7	0.0	0.0	0.0	0.0
Department of Defense, research	4,494.7	2,228.6	412.6	0.0	1,703.5	0.0	150.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	1,614.9	43.0	857.0	0.0	714.8	0.0	0.0	0.0	0.0
Department of Energy	15,558.2	0.0	5,094.1	0.0	9,779.5	0.0	616.1	0.0	68.5
Department of Health and Human Services	72,112.0	24,758.7	2,584.1	0.0	41,319.3	0.0	0.0	0.0	3,449.9
Department of Homeland Security	2,615.6	0.0	134.9	0.0	2,480.8	0.0	0.0	0.0	0.0
Department of the Interior	2,188.9	1,923.8	0.0	0.0	0.0	0.0	0.0	0.0	265.0
Department of Transportation	2,560.6	0.0	0.0	0.0	1,915.4	0.0	0.0	0.0	645.2
National Aeronautics and Space Administration	1,678.0	842.2	230.9	0.0	604.8	0.0	0.0	0.0	0.0
National Science Foundation	9,522.4	0.0	225.0	0.0	1,422.0	0.0	7,383.2	0.0	492.2
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
Department of Agriculture	63,960.4	43,882.9	119.1	0.0	19,360.3	0.0	553.1	0.0	45.0
Department of Commerce	5,044.4	44.0	5.9	0.0	4,994.5	0.0	0.0	0.0	0.0







TABLE 92

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

(Dollars in thousands)

State or location and agency	Total	Intramural <sup>a</sup>	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
National Aeronautics and Space Administration	5,470.8	0.0	4,936.0	0.0	534.9	0.0	0.0	0.0	0.0
National Science Foundation	15,634.3	0.0	750.0	0.0	14,884.3	0.0	0.0	0.0	0.0
Other areas <sup>c</sup>	107,378.2	39,660.4	19,505.5	0.0	21,203.7	0.0	497.8	0.0	26,510.8
Department of Agriculture	7,705.9	451.3	0.0	0.0	7,254.5	0.0	0.0	0.0	0.0
Department of Commerce	941.6	0.0	0.0	0.0	845.8	0.0	0.0	0.0	95.8
Department of Defense, total experimental development <sup>b</sup>	33,273.2	33,265.9	7.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	16,690.7	0.0	16,507.4	0.0	0.0	0.0	0.0	0.0	183.3
Department of Health and Human Services	34,557.8	5,786.6	0.0	0.0	2,461.7	0.0	497.8	0.0	25,811.6
Department of the Interior	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
Department of Transportation	3,410.7	0.0	2,990.7	0.0	0.0	0.0	0.0	0.0	420.0
National Science Foundation	10,798.2	156.6	0.0	0.0	10,641.7	0.0	0.0	0.0	0.0
Offices abroad <sup>d</sup>	47,928.2	2,730.3	44,798.7	0.0	399.2	0.0	0.0	0.0	0.0
Department of Defense, research	789.6	390.4	0.0	0.0	399.2	0.0	0.0	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	1,404.3	572.4	831.9	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	45,734.3	1,767.5	43,966.8	0.0	0.0	0.0	0.0	0.0	0.0
Undistributed <sup>e</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
Department of Defense, research	162,552.7	83,495.1	55,075.9	0.0	7,422.0	0.0	16,559.8	0.0	0.0
Department of Defense, total experimental development <sup>b</sup>	1,666,613.4	1,159,116.2	507,119.2	0.0	378.0	0.0	0.0	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> Department of Defense (DOD) development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FYs 1994–96). As of volume 66 (FYs 2016–17), the definition of major systems development was changed to represent DOD Budget Activities 4 through 6 instead of Budget Activities 4 through 7.

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

<sup>e</sup> Undistributed totals include 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). 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.