

TABLE S4-3

Federal obligations for R&D and R&D plant, by agency, performer, and type of work: FY 2017

(Millions of dollars)

Agency	All federal obligations	Federal intramural ^a	Extramural performers							Foreign
			Business firms	United States and U.S. territories					State and local governments	
				Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
Total R&D and R&D plant										
All agencies	121,626.6	31,819.7	38,209.2	4,158.1	29,313.2	5,030.9	8,298.4	3,460.7	553.4	782.9
Department of Agriculture	2,575.2	1,685.1	31.2	0.0	824.1	0.0	23.5	0.0	8.6	2.7
Department of Commerce	1,847.1	1,409.0	65.2	0.0	277.5	32.8	51.1	1.2	6.7	3.7
Department of Defense	45,163.8	15,779.2	24,385.9	245.7	2,421.9	363.8	601.0	877.4	22.5	466.5
Department of Education	261.8	10.6	6.7	0.0	181.3	0.0	63.3	0.0	0.0	0.0
Department of Energy	13,583.9	1,223.4	2,829.1	3,179.1	1,158.7	2,632.4	184.2	2,343.3	32.4	1.5
Department of Health and Human Services	33,901.8	7,201.1	1,739.1	665.6	18,433.4	21.3	5,370.7	33.9	200.3	236.3
Department of Homeland Security	869.9	373.9	303.2	49.4	47.5	4.6	15.9	62.0	11.8	1.6
Department of the Interior	868.1	766.8	15.0	0.0	52.8	0.4	4.1	0.0	28.2	0.8
Department of Justice	126.9	11.4	8.0	0.0	63.8	0.0	33.4	0.0	10.3	0.0
Department of Transportation	987.0	212.4	366.7	0.2	70.3	0.2	39.6	83.4	214.2	0.0
Department of Veterans Affairs	682.3	682.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for International Development	192.2	10.9	0.0	0.0	49.1	0.0	128.8	0.0	0.0	3.4
Environmental Protection Agency	498.4	263.3	183.3	0.0	51.5	0.0	0.0	0.0	0.0	0.2
National Aeronautics and Space Administration	12,638.1	1,784.6	7,701.5	1.8	927.3	1,755.7	376.2	33.5	7.6	49.9
National Science Foundation	5,945.7	27.5	410.3	0.0	4,744.6	216.8	517.0	5.0	10.8	13.9
Patient-Centered Outcomes Research Trust Fund	883.9	0.0	0.0	0.0	0.0	0.0	883.9	0.0	0.0	0.0
Smithsonian Institution	240.5	240.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	109.5	31.2	69.3	0.0	5.4	0.0	3.6	0.0	0.0	0.0
All other agencies	250.4	106.4	94.9	16.4	4.3	2.9	2.1	21.1	-0.0	2.2

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R&D										
All agencies	118,974.8	30,990.2	37,875.4	4,075.8	28,963.2	4,445.3	8,140.6	3,173.0	553.4	757.9
Department of Agriculture	2,418.5	1,528.5	31.2	0.0	823.9	0.0	23.5	0.0	8.6	2.7
Department of Commerce	1,612.5	1,174.4	65.2	0.0	277.5	32.8	51.1	1.2	6.7	3.7
Department of Defense	44,872.6	15,520.0	24,355.0	245.7	2,421.3	363.6	600.5	877.4	22.5	466.5
Department of Education	261.8	10.6	6.7	0.0	181.3	0.0	63.3	0.0	0.0	0.0
Department of Energy	12,308.4	1,221.2	2,588.9	3,096.7	1,058.7	2,059.6	184.2	2,065.3	32.4	1.5
Department of Health and Human Services	33,774.2	7,078.4	1,739.1	665.6	18,428.5	21.3	5,370.7	33.9	200.3	236.3
Department of Homeland Security	856.6	370.3	303.2	49.4	47.5	4.6	15.9	52.3	11.8	1.6
Department of the Interior	862.6	764.5	11.9	0.0	52.8	0.4	4.1	0.0	28.2	0.8
Department of Justice	126.9	11.4	8.0	0.0	63.8	0.0	33.4	0.0	10.3	0.0
Department of Transportation	948.6	211.8	329.1	0.2	70.3	0.2	39.4	83.4	214.2	0.0
Department of Veterans Affairs	682.3	682.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for International Development	192.2	10.9	0.0	0.0	49.1	0.0	128.8	0.0	0.0	3.4
Environmental Protection Agency	493.6	263.3	178.5	0.0	51.5	0.0	0.0	0.0	0.0	0.2
National Aeronautics and Space Administration	12,594.6	1,784.6	7,684.6	1.8	927.3	1,754.0	376.2	33.5	7.6	25.1
National Science Foundation	5,517.6	12.5	409.8	0.0	4,500.2	205.8	359.8	5.0	10.8	13.7
Patient-Centered Outcomes Research Trust Fund	883.9	0.0	0.0	0.0	0.0	0.0	883.9	0.0	0.0	0.0
Smithsonian Institution	207.9	207.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	109.5	31.2	69.3	0.0	5.4	0.0	3.6	0.0	0.0	0.0
All other agencies	250.4	106.4	94.9	16.4	4.3	2.9	2.1	21.1	-0.0	2.2

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			Business firms	United States and U.S. territories						State and local governments	Foreign
				Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs			
Basic research											
All agencies	33,271.5	6,116.1	2,692.3	600.3	15,847.1	3,078.3	3,359.1	1,315.2	66.3	196.6	
Department of Agriculture	965.2	650.4	2.4	0.0	300.6	0.0	8.4	0.0	2.2	1.3	
Department of Commerce	246.0	210.1	14.2	0.0	17.7	0.0	2.6	0.0	1.1	0.2	
Department of Defense	2,110.1	490.0	333.0	11.2	1,047.7	16.2	139.5	11.7	1.4	59.4	
Department of Education	32.7	1.4	0.3	0.0	22.9	0.0	8.1	0.0	0.0	0.0	
Department of Energy	4,500.3	256.5	267.8	249.0	668.1	1,755.4	30.4	1,266.9	5.0	1.2	
Department of Health and Human Services	16,700.1	3,510.9	788.6	339.5	9,200.6	10.9	2,681.3	12.0	45.1	111.3	
Department of Homeland Security	11.6	0.0	0.4	0.0	11.2	0.0	0.0	0.0	0.0	0.0	
Department of the Interior	54.3	51.2	0.1	0.0	2.3	0.0	0.2	0.0	0.6	0.0	
Department of Justice	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Transportation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Veterans Affairs	274.1	274.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Agency for International Development	0.8	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.4	
Environmental Protection Agency	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
National Aeronautics and Space Administration	3,425.8	450.0	1,041.8	0.6	608.8	1,090.0	205.1	18.3	1.8	9.5	
National Science Foundation	4,739.1	11.5	243.8	0.0	3,967.3	205.8	283.2	5.0	9.1	13.4	
Patient-Centered Outcomes Research Trust Fund	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Smithsonian Institution	207.9	207.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Social Security Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
All other agencies	1.4	0.0	0.0	0.0	0.0	-0.0	0.0	1.4	-0.0	0.0	

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			Business firms	United States and U.S. territories						State and local governments	Foreign
				Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs			
Applied research											
All agencies	36,599.8	9,788.6	6,270.9	2,959.3	11,779.0	422.8	4,217.0	599.8	386.8	175.6	
Department of Agriculture	1,251.1	698.4	28.8	0.0	502.4	0.0	13.9	0.0	6.4	1.2	
Department of Commerce	1,056.3	735.0	49.0	0.0	187.7	29.3	46.9	1.2	3.8	3.4	
Department of Defense	5,068.0	1,986.7	2,123.6	47.4	614.3	67.1	142.7	52.6	0.4	33.1	
Department of Education	141.4	5.9	2.6	0.0	107.4	0.0	25.6	0.0	0.0	0.0	
Department of Energy	5,084.2	675.8	874.4	2,559.4	214.3	175.9	86.1	486.7	11.4	0.2	
Department of Health and Human Services	16,977.3	3,542.5	946.6	326.2	9,184.8	10.5	2,674.4	21.9	149.7	120.7	
Department of Homeland Security	264.4	126.8	73.7	12.6	30.0	0.0	7.5	7.5	6.2	0.1	
Department of the Interior	667.5	591.6	10.0	0.0	38.7	0.4	3.3	0.0	23.5	0.0	
Department of Justice	84.6	4.0	4.5	0.0	43.0	0.0	29.8	0.0	3.4	0.0	
Department of Transportation	695.6	155.4	259.1	0.2	62.8	0.2	38.1	4.7	175.1	0.0	
Department of Veterans Affairs	394.7	394.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Agency for International Development	191.5	10.9	0.0	0.0	49.1	0.0	128.5	0.0	0.0	3.0	
Environmental Protection Agency	417.5	222.9	142.8	0.0	51.5	0.0	0.0	0.0	0.0	0.2	
National Aeronautics and Space Administration	2,319.5	524.0	1,431.4	0.5	150.7	136.5	54.5	5.5	5.1	11.2	
National Science Foundation	778.6	1.0	166.0	0.0	532.9	0.0	76.6	0.0	1.7	0.3	
Patient-Centered Outcomes Research Trust Fund	883.9	0.0	0.0	0.0	0.0	0.0	883.9	0.0	0.0	0.0	
Smithsonian Institution	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Social Security Administration	109.5	31.2	69.3	0.0	5.4	0.0	3.6	0.0	0.0	0.0	
All other agencies	214.3	81.8	89.2	13.0	4.0	2.9	1.6	19.7	0.0	2.2	

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				Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs			
Development											
All agencies	49,103.5	15,085.5	28,912.2	516.2	1,337.1	944.1	564.4	1,258.0	100.3	385.6	
Department of Agriculture	202.1	179.7	0.0	0.0	20.9	0.0	1.2	0.0	0.0	0.2	
Department of Commerce	310.2	229.2	2.0	0.0	72.0	3.6	1.6	0.0	1.7	0.0	
Department of Defense	37,694.6	13,043.4	21,898.5	187.1	759.3	280.3	318.3	813.0	20.7	374.0	
Department of Education	87.8	3.2	3.9	0.0	51.0	0.0	29.6	0.0	0.0	0.0	
Department of Energy	2,723.9	288.9	1,446.7	288.4	176.3	128.2	67.6	311.7	16.0	0.1	
Department of Health and Human Services	96.8	25.0	3.9	0.0	43.0	0.0	15.0	0.0	5.5	4.4	
Department of Homeland Security	580.6	243.5	229.1	36.7	6.3	4.6	8.3	44.8	5.6	1.5	
Department of the Interior	140.7	121.7	1.7	0.0	11.8	0.0	0.6	0.0	4.1	0.8	
Department of Justice	40.2	5.3	3.5	0.0	20.8	0.0	3.6	0.0	6.9	0.0	
Department of Transportation	253.0	56.4	70.1	0.0	7.4	0.0	1.3	78.7	39.1	0.0	
Department of Veterans Affairs	13.5	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Agency for International Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Environmental Protection Agency	76.2	40.4	35.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
National Aeronautics and Space Administration	6,849.4	810.6	5,211.4	0.6	167.8	527.5	116.6	9.7	0.7	4.5	
National Science Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Patient-Centered Outcomes Research Trust Fund	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Smithsonian Institution	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Social Security Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
All other agencies	34.6	24.6	5.7	3.4	0.3	0.0	0.5	0.0	0.0	-0.0	

FFRDC = federally funded research and development center.

^a Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

Note(s)

Detail may not add to total because of rounding. Agencies included have total annual R&D obligations of \$100 million or more. All other agencies include Department of Housing and Urban Development, Department of Labor, Department of State, Department of the Treasury, Appalachian Regional Commission, Consumer Product Safety Commission, Federal Communications Commission, Federal Trade Commission, Library of Congress, National Archives and Records Administration, Nuclear Regulatory Commission, Tennessee Valley Authority, and U.S. Postal Service.

Source(s)

National Center for Science and Engineering Statistics, National Science Foundation, Survey of Federal Funds for Research and Development, FYs 2018–19 (Volume 68).

Science and Engineering Indicators