

Appendix table 4-35

Federal obligations for R&D and R&D plant, by agency, performer, and character of work: FY 2011

(Millions of current dollars)

Agency	All federal obligations	Federal intramural ^a	Extramural performers							Foreign
			United States and U.S. territories					Nonprofit FFRDCs	State, local governments	
			Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits			
Total R&D and R&D plant										
All agencies	136,418.1	33,156.6	56,747.7	4,107.5	28,143.5	3,488.9	6,423.2	3,443.4	401.2	506.1
Department of Agriculture	2,634.6	1,654.4	18.3	0.0	918.9	0.0	26.5	2.8	11.0	2.6
Department of Commerce	1,419.7	1,008.6	94.9	0.0	293.8	2.6	11.8	0.1	3.9	3.9
Department of Defense	71,842.3	19,837.8	46,581.7	662.8	2,472.2	416.9	322.6	1,351.4	41.6	155.4
Department of Education	346.3	16.9	17.0	0.0	236.4	2.2	73.9	0.0	0.0	0.0
Department of Energy	9,923.2	914.7	1,351.9	2,839.3	891.8	1,915.2	145.5	1,847.5	14.9	2.4
Department of Health and Human Services	31,766.3	5,506.7	1,924.3	551.7	18,309.0	47.4	4,904.2	94.4	158.6	270.0
Department of Homeland Security	1,051.1	526.2	232.0	25.3	79.6	59.4	71.6	56.6	0.3	0.1
Department of the Interior	694.8	571.5	26.4	0.0	71.6	0.0	2.6	0.0	12.2	10.7
Department of Justice	101.0	26.3	14.9	1.0	29.0	0.4	15.3	0.3	13.9	0.0
Department of Transportation	1,021.2	295.9	426.2	0.0	74.3	2.6	50.6	50.7	120.3	0.6
Department of Veterans Affairs	579.0	579.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	577.0	464.9	50.6	0.0	53.6	0.0	7.0	0.0	0.6	0.3
National Aeronautics and Space Administration	8,429.0	1,210.3	5,549.9	0.6	587.2	843.6	206.3	15.7	0.5	14.9
National Science Foundation	5,373.3	155.9	347.3	0.0	4,092.8	189.4	532.6	5.3	22.8	27.1
Smithsonian Institution	227.0	227.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	432.3	160.6	112.3	26.8	33.4	9.2	52.6	18.6	0.6	18.2
R&D										
All agencies	132,140.6	32,065.9	54,781.5	3,946.4	27,803.4	3,239.0	6,306.9	3,102.8	400.9	493.8
Department of Agriculture	2,591.3	1,611.2	18.3	0.0	918.9	0.0	26.5	2.8	11.0	2.6
Department of Commerce	1,135.5	801.9	94.9	0.0	219.7	2.6	8.6	0.1	3.9	3.9
Department of Defense	71,684.2	19,791.0	46,472.1	662.8	2,471.9	416.9	321.1	1,351.4	41.6	155.4
Department of Education	346.3	16.9	17.0	0.0	236.4	2.2	73.9	0.0	0.0	0.0
Department of Energy	9,136.2	877.5	1,284.7	2,678.7	890.0	1,721.6	145.5	1,521.0	14.9	2.4
Department of Health and Human Services	31,573.7	5,318.6	1,924.3	551.7	18,305.1	47.4	4,903.6	94.4	158.6	270.0
Department of Homeland Security	634.7	219.9	155.8	24.8	79.6	59.4	49.0	45.7	0.3	0.1
Department of the Interior	688.6	571.5	20.1	0.0	71.6	0.0	2.6	0.0	12.2	10.7
Department of Justice	101.0	26.3	14.9	1.0	29.0	0.4	15.3	0.3	13.9	0.0
Department of Transportation	997.0	295.9	402.0	0.0	74.3	2.6	50.6	50.7	120.3	0.6
Department of Veterans Affairs	579.0	579.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	577.0	464.9	50.6	0.0	53.6	0.0	7.0	0.0	0.6	0.3
National Aeronautics and Space Administration	6,570.5	1,036.8	3,901.1	0.6	573.3	842.4	198.7	12.6	0.5	4.4
National Science Foundation	4,924.4	124.9	313.5	0.0	3,846.8	134.3	451.8	5.3	22.5	25.2
Smithsonian Institution	169.0	169.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	432.3	160.7	112.3	26.8	33.4	9.2	52.6	18.6	0.6	18.2

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Federal obligations for R&D and R&D plant, by agency, performer, and character of work: FY 2011

(Millions of current dollars)

Agency	All federal obligations	Federal intramural ^a	Extramural performers							Foreign
			United States and U.S. territories					Nonprofit FFRDCs	State, local governments	
			Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits			
Basic research										
All agencies	29,060.8	4,794.1	1,602.0	515.2	15,758.7	1,914.6	3,088.6	1,102.9	93.8	190.9
Department of Agriculture	1,078.8	682.6	1.4	0.0	379.5	0.0	11.3	0.0	3.1	1.0
Department of Commerce	149.8	119.5	10.8	0.0	18.9	0.0	0.6	0.0	0.0	0.0
Department of Defense	1,903.9	464.5	259.2	7.5	1,104.0	3.0	39.6	4.8	0.0	21.4
Department of Education	7.5	0.3	0.0	0.0	5.5	0.0	1.6	0.0	0.0	0.0
Department of Energy	3,717.2	110.5	91.2	208.2	653.0	1,578.6	36.1	1,036.9	0.2	2.4
Department of Health and Human Services	16,123.6	2,630.3	865.1	297.7	9,565.7	22.8	2,485.3	49.0	66.3	141.4
Department of Homeland Security	91.2	18.0	5.3	1.3	53.0	4.3	3.2	6.0	0.0	0.0
Department of the Interior	48.9	42.4	0.1	0.0	4.6	0.0	0.2	0.0	1.0	0.5
Department of Justice	17.5	0.6	2.4	0.0	9.7	0.0	3.7	0.0	1.2	0.0
Department of Transportation	8.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	218.0	218.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	88.0	70.9	7.7	0.0	8.2	0.0	1.1	0.0	0.1	0.0
National Aeronautics and Space Administration	856.8	135.4	159.1	0.4	314.2	171.7	73.6	0.9	0.2	1.4
National Science Foundation	4,581.2	123.4	199.5	0.0	3,642.4	134.3	431.8	5.3	21.8	22.7
Smithsonian Institution	169.0	169.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	1.1	0.6	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0
Applied research										
All agencies	29,105.9	7,733.4	4,602.3	2,265.1	10,754.3	212.7	2,773.0	353.1	231.3	180.8
Department of Agriculture	1,293.4	731.1	17.0	0.0	519.0	0.0	14.3	2.8	7.9	1.4
Department of Commerce	839.3	609.4	52.6	0.0	162.9	2.6	6.2	0.1	3.3	2.1
Department of Defense	4,674.3	1,613.5	2,250.2	66.7	570.4	53.4	78.0	23.4	1.1	17.7
Department of Education	205.6	10.7	5.6	0.0	149.6	1.7	38.1	0.0	0.0	0.0
Department of Energy	3,054.2	418.1	202.7	1,906.9	145.6	75.8	57.0	241.5	6.5	0.0
Department of Health and Human Services	15,316.8	2,599.8	1,058.2	254.0	8,706.1	24.6	2,411.7	45.4	88.3	128.6
Department of Homeland Security	208.2	74.9	46.3	9.7	14.1	29.9	24.4	8.8	0.0	0.1
Department of the Interior	564.6	466.0	18.7	0.0	59.2	0.0	1.9	0.0	9.2	9.6
Department of Justice	65.8	14.3	12.6	1.0	19.3	0.4	11.6	0.3	6.4	0.0
Department of Transportation	704.6	202.4	290.1	0.0	65.9	1.6	30.9	6.8	106.9	0.0
Department of Veterans Affairs	314.0	314.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	403.4	325.0	35.4	0.0	37.5	0.0	4.9	0.0	0.4	0.2
National Aeronautics and Space Administration	717.8	207.5	399.1	0.0	67.3	13.5	24.3	5.4	0.2	0.4
National Science Foundation	343.2	1.5	114.0	0.0	204.5	0.0	20.0	0.0	0.7	2.5
Smithsonian Institution	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All other agencies	400.9	145.2	99.8	26.8	33.0	9.2	49.8	18.6	0.4	18.2

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Federal obligations for R&D and R&D plant, by agency, performer, and character of work: FY 2011

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			United States and U.S. territories					Nonprofit FFRDCs	State, local governments	
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Development										
All agencies	73,973.9	19,538.4	48,577.3	1,166.1	1,290.5	1,111.7	445.3	1,646.9	75.7	122.1
Department of Agriculture	219.1	197.4	0.0	0.0	20.4	0.0	1.0	0.0	0.1	0.2
Department of Commerce	146.4	73.0	31.4	0.0	37.9	0.0	1.9	0.0	0.6	1.8
Department of Defense	65,106.0	17,713.1	43,962.7	588.5	797.6	360.5	203.6	1,323.2	40.6	116.3
Department of Education	133.2	5.9	11.4	0.0	81.2	0.6	34.2	0.0	0.0	0.0
Department of Energy	2,364.8	348.9	990.7	563.5	91.4	67.1	52.4	242.6	8.2	0.0
Department of Health and Human Services	133.3	88.6	0.9	0.0	33.3	0.0	6.6	0.0	4.0	0.0
Department of Homeland Security	335.2	127.0	104.1	13.8	12.5	25.3	21.4	30.8	0.3	0.0
Department of the Interior	75.1	63.1	1.3	0.0	7.7	0.0	0.4	0.0	1.9	0.6
Department of Justice	17.7	11.4	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0
Department of Transportation	284.2	85.3	111.9	0.0	8.4	1.0	19.6	43.9	13.4	0.6
Department of Veterans Affairs	47.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	85.6	69.0	7.5	0.0	8.0	0.0	1.0	0.0	0.1	0.0
National Aeronautics and Space Administration	4,995.8	694.0	3,342.9	0.2	191.7	657.2	100.8	6.3	0.1	2.6
National Science Foundation	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
All other agencies	30.3	14.8	12.4	0.0	0.4	0.0	2.4	0.0	0.2	0.0
R&D plant										
All agencies	4,277.4	1,090.7	1,966.2	161.1	340.1	249.9	116.3	340.5	0.3	12.3
Department of Agriculture	43.3	43.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	284.2	206.8	0.0	0.0	74.2	0.0	3.2	0.0	0.0	0.0
Department of Defense	158.1	46.7	109.7	0.0	0.3	0.0	1.5	0.0	0.0	0.0
Department of Education	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	786.9	37.2	67.2	160.6	1.8	193.7	0.0	326.5	0.0	0.0
Department of Health and Human Services	192.6	188.0	0.0	0.0	4.0	0.0	0.6	0.0	0.0	0.0
Department of Homeland Security	416.4	306.2	76.2	0.5	0.0	0.0	22.6	10.9	0.0	0.0
Department of the Interior	6.3	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	24.2	0.0	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	1,858.5	173.5	1,648.8	0.0	13.9	1.1	7.6	3.1	0.0	10.5

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Agency	All federal obligations	Federal intramural ^a	Extramural performers								
			Business firms	United States and U.S. territories					Nonprofit FFRDCs	State, local governments	Foreign
				Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits				
National Science Foundation	448.9	31.0	33.8	0.0	246.0	55.1	80.8	0.0	0.3	1.9	
Smithsonian Institution	58.0	58.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
All other agencies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

FFRDC = federally funded R&D center.

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

NOTES: Detail may not add to total due to rounding. Agencies included have a total annual R&D of \$100 million or more. All other agencies includes Department of Housing and Urban Development, Department of Labor, Department of State, Department of the Treasury, Agency for International Development, Appalachian Regional Commission, Federal Communications Commission, Federal Trade Commission, Library of Congress, National Archives and Records Commission, Nuclear Regulatory Commission, and Social Security Administration.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development (FYs 2010–12).

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