

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FYs 2011–14  
(Dollars in millions)

Character of work, performer, and field	2011	2012	2013	Preliminary		% change 2013–14
				% change 2012–13	2014	
Outlays for R&D and R&D plant	135,743.9	130,989.1	132,621.8	1.2	130,415.6	-1.7
R&D	131,443.0	128,520.3	130,379.1	1.4	127,295.0	-2.4
R&D plant	4,300.8	2,468.8	2,242.7	-9.2	3,120.7	39.2
Obligations for R&D and R&D plant	139,661.5	140,635.8	134,546.5	-4.3	134,042.3	-0.4
R&D	135,490.8	138,485.1	132,435.7	-4.4	130,846.5	-1.2
Performer						
Intramural <sup>a</sup>	35,144.7	34,367.8	32,677.6	-4.9	32,513.8	-0.5
Industry	53,550.2	58,910.1	55,175.7	-6.3	53,152.0	-3.7
Industry-administered FFRDCs	4,424.5	3,611.7	3,647.2	1.0	3,184.6	-12.7
Universities and colleges	27,680.3	27,509.5	27,394.7	-0.4	28,159.9	2.8
University-administered FFRDCs	3,437.8	3,694.2	3,350.8	-9.3	3,581.4	6.9
Other nonprofit institutions	6,636.6	6,347.0	6,316.6	-0.5	6,351.2	0.5
Nonprofit-administered FFRDCs	2,923.7	2,752.2	2,614.3	-5.0	2,696.9	3.2
State and local governments	716.2	453.2	483.9	6.8	450.3	-6.9
Foreign	976.8	839.5	774.7	-7.7	756.5	-2.4
Research	58,023.7	61,946.9	61,616.7	-0.5	64,199.4	4.2
Performer						
Intramural <sup>a</sup>	12,663.4	14,295.0	14,561.5	1.9	14,900.0	2.3
Industry	6,037.4	7,794.0	7,164.0	-8.1	7,864.8	9.8
Industry-administered FFRDCs	2,984.4	2,678.7	2,644.1	-1.3	2,787.6	5.4
Universities and colleges	26,253.2	26,289.9	26,308.6	0.1	27,203.2	3.4
University-administered FFRDCs	2,224.4	2,856.9	2,831.6	-0.9	3,007.9	6.2
Other nonprofit institutions	5,760.8	5,812.9	5,918.1	1.8	6,015.7	1.7
Nonprofit-administered FFRDCs	1,447.7	1,457.0	1,422.0	-2.4	1,657.8	16.6
State and local governments	282.2	352.2	388.3	10.2	380.5	-2.0
Foreign	370.2	410.3	378.6	-7.7	381.9	0.9
Field of science and engineering						
Computer sciences and mathematics	3,374.3	3,527.5	3,643.1	3.3	3,931.8	7.9
Engineering	10,057.2	11,403.4	10,635.6	-6.7	11,274.5	6.0
Environmental sciences	3,207.2	3,884.3	3,946.7	1.6	4,100.7	3.9
Life sciences	29,408.6	30,966.7	31,162.4	0.6	31,458.2	0.9
Physical sciences	5,426.6	6,407.5	6,478.2	1.1	6,791.0	4.8
Psychology	1,886.8	2,086.6	2,101.9	0.7	2,144.5	2.0
Social sciences	1,262.4	1,124.5	1,031.7	-8.2	1,212.6	17.5
Other sciences nec	3,400.5	2,546.3	2,617.0	2.8	3,286.2	25.6
Basic research	29,313.6	30,958.9	31,191.1	0.8	32,541.2	4.3
Performer						
Intramural <sup>a</sup>	4,869.8	5,579.4	6,001.7	7.6	5,791.1	-3.5
Industry	1,726.5	2,155.3	2,133.9	-1.0	2,489.6	16.7
Industry-administered FFRDCs	483.0	434.1	404.9	-6.7	394.2	-2.6
Universities and colleges	15,771.4	15,729.8	15,564.9	-1.0	16,323.7	4.9
University-administered FFRDCs	2,010.1	2,550.5	2,560.1	0.4	2,718.6	6.2
Other nonprofit institutions	3,066.5	3,123.1	3,214.2	2.9	3,300.1	2.7
Nonprofit-administered FFRDCs	1,101.9	1,096.2	1,036.2	-5.5	1,245.9	20.2
State and local governments	75.8	80.4	80.9	0.7	82.8	2.3
Foreign	208.7	210.0	194.2	-7.5	195.3	0.6
Field of science and engineering						
Computer sciences and mathematics	1,788.5	1,794.9	1,789.1	-0.3	1,962.1	9.7
Engineering	3,168.0	3,458.9	3,480.6	0.6	3,688.7	6.0
Environmental sciences	1,796.4	2,258.7	2,416.9	7.0	2,539.0	5.1
Life sciences	15,373.4	16,015.8	16,093.7	0.5	16,307.1	1.3
Physical sciences	3,815.0	4,556.7	4,599.7	0.9	4,857.3	5.6

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				% change 2012–13	2014	
Psychology	978.8	1,087.8	1,088.0	**	1,109.9	2.0
Social sciences	371.0	381.4	381.1	-0.1	404.2	6.0
Other sciences nec	2,022.6	1,404.6	1,341.8	-4.5	1,672.9	24.7
Applied research	28,710.1	30,988.0	30,425.6	-1.8	31,658.2	4.1
Performer						
Intramural <sup>a</sup>	7,793.6	8,715.5	8,559.8	-1.8	9,108.9	6.4
Industry	4,310.9	5,638.7	5,030.1	-10.8	5,375.3	6.9
Industry-administered FFRDCs	2,501.4	2,244.6	2,239.2	-0.2	2,393.4	6.9
Universities and colleges	10,481.8	10,560.1	10,743.7	1.7	10,879.6	1.3
University-administered FFRDCs	214.3	306.3	271.6	-11.3	289.3	6.5
Other nonprofit institutions	2,694.3	2,689.7	2,703.8	0.5	2,715.6	0.4
Nonprofit-administered FFRDCs	345.8	360.8	385.9	6.9	411.9	6.7
State and local governments	206.4	271.8	307.3	13.1	297.7	-3.1
Foreign	161.5	200.3	184.4	-8.0	186.6	1.2
Field of science and engineering						
Computer sciences and mathematics	1,585.9	1,732.6	1,854.0	7.0	1,969.7	6.2
Engineering	6,889.2	7,944.5	7,155.0	-9.9	7,585.8	6.0
Environmental sciences	1,410.7	1,625.6	1,529.7	-5.9	1,561.7	2.1
Life sciences	14,035.2	14,950.9	15,068.7	0.8	15,151.1	0.5
Physical sciences	1,611.6	1,850.8	1,878.5	1.5	1,933.7	2.9
Psychology	908.1	998.8	1,013.9	1.5	1,034.6	2.0
Social sciences	891.4	743.1	650.6	-12.4	808.4	24.3
Other sciences nec	1,377.9	1,141.7	1,275.1	11.7	1,613.3	26.5
Development	77,467.1	76,538.3	70,819.0	-7.5	66,647.1	-5.9
Performer						
Intramural <sup>a</sup>	22,481.3	20,072.8	18,116.1	-9.7	17,613.9	-2.8
Industry	47,512.8	51,116.1	48,011.7	-6.1	45,287.1	-5.7
Industry-administered FFRDCs	1,440.1	933.0	1,003.1	7.5	397.0	-60.4
Universities and colleges	1,427.1	1,219.6	1,086.1	-10.9	956.6	-11.9
University-administered FFRDCs	1,213.3	837.3	519.2	-38.0	573.5	10.5
Other nonprofit institutions	875.8	534.1	398.6	-25.4	335.4	-15.8
Nonprofit-administered FFRDCs	1,476.0	1,295.2	1,192.3	-7.9	1,039.1	-12.8
State and local governments	434.0	101.0	95.7	-5.3	69.8	-27.0
Foreign	606.6	429.2	396.2	-7.7	374.6	-5.4
R&D plant	4,170.7	2,150.7	2,110.8	-1.9	3,195.8	51.4
Performer						
Intramural <sup>a</sup>	846.5	486.2	631.0	29.8	936.5	48.4
Industry	2,030.0	460.5	429.4	-6.8	878.6	104.6
Industry-administered FFRDCs	118.3	51.8	44.4	-14.2	34.7	-21.8
Universities and colleges	286.0	372.5	338.6	-9.1	398.9	17.8
University-administered FFRDCs	242.9	248.1	264.6	6.7	348.0	31.5
Other nonprofit institutions	141.3	200.8	209.8	4.5	281.2	34.0
Nonprofit-administered FFRDCs	491.0	323.1	184.5	-42.9	309.7	67.8
State and local governments	0.2	*	*	-15.8	*	0.0
Foreign	14.6	7.6	8.4	11.3	8.2	-2.1

\* = amount greater than \$0 but less than \$50,000. \*\* = percentage greater than 0 but less than 0.05% or percentage less than 0 but greater than -0.05%.

FFRDC = federally funded research and development center; nec = not elsewhere classified.

<sup>a</sup> Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. Percentages are computed using actual dollars reported.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.