

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FYs 2010–13
(Dollars in millions)

Character of work, performer, and field	2010	2011	2012	Preliminary		
				% change 2011–12	% change 2012–13	
Outlays for research and development and R&D plant	137,523.1	135,743.9	134,263.0	-1.1	137,369.7	2.3
Research and development	131,387.6	131,443.0	129,896.2	-1.2	132,955.4	2.4
R&D plant	6,135.5	4,300.8	4,366.8	1.5	4,414.2	1.1
Obligations for research and development and R&D plant	146,967.8	139,661.5	139,158.9	-0.4	141,176.3	1.4
Research and development	140,354.5	135,490.8	134,785.7	-0.5	136,471.6	1.3
Performer						
Intramural ^a	30,911.8	35,144.7	37,664.9	7.2	37,301.0	-1.0
Industry	59,867.8	53,550.2	51,053.7	-4.7	52,286.3	2.4
Industry-administered FFRDCs	3,946.2	4,424.5	4,301.0	-2.8	4,936.7	14.8
Universities and colleges	31,192.3	27,680.3	27,410.8	-1.0	27,785.9	1.4
University-administered FFRDCs	3,370.5	3,437.8	3,487.2	1.4	3,395.9	-2.6
Other nonprofit institutions	7,245.3	6,636.6	6,303.0	-5.0	6,309.4	0.1
Nonprofit-administered FFRDCs	2,784.1	2,923.7	2,802.0	-4.2	2,828.7	1.0
State and local governments	426.7	716.2	1,115.9	55.8	1,038.2	-7.0
Foreign	609.9	976.8	647.2	-33.7	589.4	-8.9
Research	63,728.0	58,023.7	58,049.8	**	59,969.2	3.3
Performer						
Intramural ^a	13,280.9	12,663.4	13,049.3	3.0	13,533.0	3.7
Industry	6,625.5	6,037.4	5,839.0	-3.3	6,365.2	9.0
Industry-administered FFRDCs	2,960.1	2,984.4	2,917.6	-2.2	3,190.9	9.4
Universities and colleges	29,607.8	26,253.2	26,228.0	-0.1	26,612.7	1.5
University-administered FFRDCs	2,151.6	2,224.4	2,208.6	-0.7	2,266.2	2.6
Other nonprofit institutions	6,687.0	5,760.8	5,743.7	-0.3	5,767.4	0.4
Nonprofit-administered FFRDCs	1,633.6	1,447.7	1,394.4	-3.7	1,551.5	11.3
State and local governments	352.8	282.2	288.3	2.2	295.8	2.6
Foreign	428.6	370.2	380.9	2.9	386.4	1.4
Field of science and engineering						
Computer sciences and mathematics	3,411.8	3,374.3	3,450.6	2.3	3,751.0	8.7
Engineering	11,081.2	10,057.2	9,873.1	-1.8	10,742.6	8.8
Environmental sciences	3,338.9	3,207.2	3,079.0	-4.0	3,140.3	2.0
Life sciences	33,909.1	29,408.6	29,061.1	-1.2	29,151.5	0.3
Physical sciences	5,870.8	5,426.6	5,574.5	2.7	5,949.6	6.7
Psychology	2,155.6	1,886.8	1,914.2	1.5	1,923.4	0.5
Social sciences	1,197.3	1,262.4	1,202.9	-4.7	1,252.9	4.2
Other sciences nec	2,763.2	3,400.5	3,894.5	14.5	4,057.9	4.2
Basic research	31,795.3	29,313.6	29,426.2	0.4	30,065.7	2.2
Performer						
Intramural ^a	5,190.9	4,869.8	5,035.0	3.4	5,238.1	4.0
Industry	1,746.9	1,726.5	1,647.6	-4.6	1,753.6	6.4
Industry-administered FFRDCs	591.6	483.0	498.3	3.2	474.2	-4.8
Universities and colleges	17,403.1	15,771.4	15,775.1	**	16,038.3	1.7
University-administered FFRDCs	1,870.6	2,010.1	2,026.3	0.8	2,056.9	1.5
Other nonprofit institutions	3,530.4	3,066.5	3,064.1	-0.1	3,077.3	0.4
Nonprofit-administered FFRDCs	1,139.4	1,101.9	1,074.9	-2.5	1,133.2	5.4
State and local governments	103.2	75.8	82.8	9.2	77.3	-6.6
Foreign	219.2	208.7	222.2	6.5	216.8	-2.4
Field of science and engineering						
Computer sciences and mathematics	1,663.2	1,788.5	1,821.6	1.9	1,965.4	7.9
Engineering	3,491.1	3,168.0	3,255.0	2.7	3,422.5	5.1
Environmental sciences	1,787.4	1,796.4	1,797.4	0.1	1,912.1	6.4
Life sciences	17,748.3	15,373.4	15,157.8	-1.4	15,148.2	-0.1
Physical sciences	3,984.1	3,815.0	3,885.9	1.9	4,010.0	3.2

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Character of work, performer, and field	2010	2011	Preliminary			
			2012	% change 2011–12	2013	% change 2012–13
Psychology	1,129.2	978.8	981.9	0.3	990.9	0.9
Social sciences	358.9	371.0	368.2	-0.7	376.2	2.2
Other sciences nec	1,633.0	2,022.6	2,158.5	6.7	2,240.4	3.8
Applied research	31,932.6	28,710.1	28,623.6	-0.3	29,903.5	4.5
Performer						
Intramural ^a	8,090.1	7,793.6	8,014.3	2.8	8,294.9	3.5
Industry	4,878.6	4,310.9	4,191.4	-2.8	4,611.6	10.0
Industry-administered FFRDCs	2,368.5	2,501.4	2,419.3	-3.3	2,716.7	12.3
Universities and colleges	12,204.7	10,481.8	10,452.9	-0.3	10,574.4	1.2
University-administered FFRDCs	281.0	214.3	182.3	-14.9	209.3	14.8
Other nonprofit institutions	3,156.6	2,694.3	2,679.6	-0.5	2,690.1	0.4
Nonprofit-administered FFRDCs	494.3	345.8	319.5	-7.6	418.4	30.9
State and local governments	249.6	206.4	205.6	-0.4	218.6	6.3
Foreign	209.4	161.5	158.7	-1.7	169.6	6.8
Field of science and engineering						
Computer sciences and mathematics	1,748.6	1,585.9	1,629.1	2.7	1,785.6	9.6
Engineering	7,590.0	6,889.2	6,618.1	-3.9	7,320.1	10.6
Environmental sciences	1,551.5	1,410.7	1,281.6	-9.2	1,228.2	-4.2
Life sciences	16,160.8	14,035.2	13,903.3	-0.9	14,003.3	0.7
Physical sciences	1,886.7	1,611.6	1,688.6	4.8	1,939.6	14.9
Psychology	1,026.4	908.1	932.3	2.7	932.5	**
Social sciences	838.4	891.4	834.7	-6.4	876.7	5.0
Other sciences nec	1,130.2	1,377.9	1,736.0	26.0	1,817.5	4.7
Development	76,626.5	77,467.1	76,735.9	-0.9	76,502.4	-0.3
Performer						
Intramural ^a	17,630.9	22,481.3	24,615.6	9.5	23,768.1	-3.4
Industry	53,242.3	47,512.8	45,214.8	-4.8	45,921.1	1.6
Industry-administered FFRDCs	986.1	1,440.1	1,383.4	-3.9	1,745.8	26.2
Universities and colleges	1,584.5	1,427.1	1,182.8	-17.1	1,173.2	-0.8
University-administered FFRDCs	1,218.9	1,213.3	1,278.6	5.4	1,129.7	-11.6
Other nonprofit institutions	558.3	875.8	559.3	-36.1	542.0	-3.1
Nonprofit-administered FFRDCs	1,150.4	1,476.0	1,407.7	-4.6	1,277.2	-9.3
State and local governments	73.9	434.0	827.6	90.7	742.4	-10.3
Foreign	181.3	606.6	266.3	-56.1	203.0	-23.8
R&D plant	6,613.3	4,170.7	4,373.1	4.9	4,704.7	7.6
Performer						
Intramural ^a	1,953.3	846.5	803.3	-5.1	920.6	14.6
Industry	1,751.2	2,030.0	2,242.8	10.5	2,425.6	8.2
Industry-administered FFRDCs	167.7	118.3	133.8	13.1	130.5	-2.5
Universities and colleges	1,532.6	286.0	318.7	11.4	304.6	-4.4
University-administered FFRDCs	491.4	242.9	249.6	2.8	317.7	27.3
Other nonprofit institutions	245.9	141.3	154.9	9.6	158.4	2.3
Nonprofit-administered FFRDCs	465.3	491.0	452.9	-7.8	429.6	-5.2
State and local governments	2.0	0.2	0.2	7.4	0.2	2.6
Foreign	4.0	14.6	16.9	15.8	17.6	4.1

** = percentage greater than -0.05% but less than 0.05%.

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

^a 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 dollars in thousands. Beginning in FY 2011, Department of Defense totals include additional classified R&D projects not previously reported by its subagencies.

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