

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FYs 2012–15
(Dollars in millions)

Character of work, performer, and field	2012	2013	2014	Preliminary		
				% change 2013–14	% change 2015 2014–15	
Outlays for R&D and R&D plant	130,989.1	129,010.1	131,969.9	2.3	132,251.9	0.2
R&D	128,520.3	127,152.2	129,811.0	2.1	129,785.0	**
R&D plant	2,468.8	1,857.9	2,158.9	16.2	2,466.8	14.3
Obligations for R&D and R&D plant	140,635.8	127,297.3	130,807.7	2.8	133,739.6	2.2
R&D	138,485.1	125,387.5	128,587.7	2.6	130,636.7	1.6
Performer						
Intramural ^a	34,367.8	32,964.7	33,210.5	0.7	32,385.9	-2.5
Industry	58,910.1	49,538.1	50,963.4	2.9	52,944.6	3.9
Industry-administered FFRDCs	3,611.7	3,796.1	3,985.0	5.0	4,513.6	13.3
Universities and colleges	27,509.5	25,772.0	26,960.2	4.6	26,978.3	0.1
University-administered FFRDCs	3,694.2	3,711.7	3,839.5	3.4	4,012.3	4.5
Other nonprofit institutions	6,347.0	5,915.0	6,009.7	1.6	6,020.5	0.2
Nonprofit-administered FFRDCs	2,752.2	2,571.9	2,452.0	-4.7	2,565.9	4.6
State and local governments	453.2	385.6	380.5	-1.3	412.1	8.3
Foreign	839.5	732.4	787.0	7.5	803.5	2.1
Research	61,946.9	59,199.8	62,663.0	5.9	62,595.4	-0.1
Performer						
Intramural ^a	14,295.0	13,418.3	14,513.1	8.2	14,131.1	-2.6
Industry	7,794.0	7,365.5	8,054.3	9.4	7,873.0	-2.3
Industry-administered FFRDCs	2,678.7	2,713.8	2,911.4	7.3	3,178.6	9.2
Universities and colleges	26,289.9	24,771.7	26,011.2	5.0	26,052.0	0.2
University-administered FFRDCs	2,856.9	3,089.7	3,203.2	3.7	3,159.5	-1.4
Other nonprofit institutions	5,812.9	5,445.5	5,634.0	3.5	5,675.0	0.7
Nonprofit-administered FFRDCs	1,457.0	1,686.8	1,632.1	-3.2	1,781.4	9.1
State and local governments	352.2	313.5	300.8	-4.1	343.2	14.1
Foreign	410.3	394.8	402.9	2.0	401.6	-0.3
Field of science and engineering						
Computer sciences and mathematics	3,527.5	3,427.0	3,776.6	10.2	3,878.8	2.7
Engineering	11,403.4	10,948.2	11,496.1	5.0	11,649.7	1.3
Environmental sciences	3,884.3	4,041.0	4,330.8	7.2	4,183.1	-3.4
Life sciences	30,966.7	29,329.9	30,530.6	4.1	30,595.5	0.2
Physical sciences	6,407.5	6,281.9	6,559.0	4.4	6,400.4	-2.4
Psychology	2,086.6	1,935.2	1,985.7	2.6	2,014.2	1.4
Social sciences	1,124.5	1,237.3	1,430.7	15.6	1,331.7	-6.9
Other sciences nec	2,546.3	1,999.3	2,553.7	27.7	2,541.9	-0.5
Basic research	30,958.9	29,779.4	31,602.5	6.1	31,455.9	-0.5
Performer						
Intramural ^a	5,579.4	5,217.2	5,769.1	10.6	5,575.6	-3.4
Industry	2,155.3	2,052.3	2,439.2	18.9	2,450.9	0.5
Industry-administered FFRDCs	434.1	463.3	449.0	-3.1	434.3	-3.3
Universities and colleges	15,729.8	14,950.2	15,610.9	4.4	15,649.7	0.2
University-administered FFRDCs	2,550.5	2,738.5	2,847.2	4.0	2,735.9	-3.9
Other nonprofit institutions	3,123.1	2,999.8	3,083.3	2.8	3,110.4	0.9
Nonprofit-administered FFRDCs	1,096.2	1,099.9	1,134.6	3.2	1,230.9	8.5
State and local governments	80.4	66.0	68.2	3.3	68.4	0.3
Foreign	210.0	192.3	200.9	4.5	199.7	-0.6
Field of science and engineering						
Computer sciences and mathematics	1,794.9	1,690.8	1,827.3	8.1	1,888.2	3.3
Engineering	3,458.9	3,407.5	3,625.2	6.4	3,619.9	-0.1
Environmental sciences	2,258.7	2,395.8	2,617.6	9.3	2,563.2	-2.1
Life sciences	16,015.8	15,317.3	15,934.5	4.0	15,981.3	0.3
Physical sciences	4,556.7	4,432.2	4,882.7	10.2	4,679.7	-4.2

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Character of work, performer, and field	2012	2013	Preliminary		2015	% change 2014–15
			2014	% change 2013–14		
Psychology	1,087.8	1,016.0	1,049.0	3.2	1,070.9	2.1
Social sciences	381.4	373.8	397.2	6.2	394.9	-0.6
Other sciences nec	1,404.6	1,145.8	1,268.8	10.7	1,257.8	-0.9
Applied research	30,988.0	29,420.4	31,060.5	5.6	31,139.5	0.3
Performer						
Intramural ^a	8,715.5	8,201.1	8,744.0	6.6	8,555.5	-2.2
Industry	5,638.7	5,313.3	5,615.1	5.7	5,422.1	-3.4
Industry-administered FFRDCs	2,244.6	2,250.5	2,462.3	9.4	2,744.3	11.4
Universities and colleges	10,560.1	9,821.6	10,400.3	5.9	10,402.2	**
University-administered FFRDCs	306.3	351.1	356.0	1.4	423.6	19.0
Other nonprofit institutions	2,689.7	2,445.8	2,550.7	4.3	2,564.7	0.5
Nonprofit-administered FFRDCs	360.8	587.0	497.5	-15.2	550.5	10.7
State and local governments	271.8	247.5	232.6	-6.0	274.8	18.2
Foreign	200.3	202.5	202.0	-0.2	201.9	-0.1
Field of science and engineering						
Computer sciences and mathematics	1,732.6	1,736.2	1,949.3	12.3	1,990.6	2.1
Engineering	7,944.5	7,540.7	7,870.8	4.4	8,029.8	2.0
Environmental sciences	1,625.6	1,645.2	1,713.1	4.1	1,619.9	-5.4
Life sciences	14,950.9	14,012.6	14,596.1	4.2	14,614.2	0.1
Physical sciences	1,850.8	1,849.7	1,676.3	-9.4	1,720.7	2.7
Psychology	998.8	919.2	936.6	1.9	943.4	0.7
Social sciences	743.1	863.4	1,033.5	19.7	936.8	-9.4
Other sciences nec	1,141.7	853.5	1,284.9	50.6	1,284.1	-0.1
Development	76,538.3	66,187.8	65,924.7	-0.4	68,041.3	3.2
Performer						
Intramural ^a	20,072.8	19,546.3	18,697.4	-4.3	18,254.8	-2.4
Industry	51,116.1	42,172.6	42,909.0	1.7	45,071.6	5.0
Industry-administered FFRDCs	933.0	1,082.3	1,073.6	-0.8	1,335.0	24.4
Universities and colleges	1,219.6	1,000.2	949.0	-5.1	926.3	-2.4
University-administered FFRDCs	837.3	622.1	636.3	2.3	852.8	34.0
Other nonprofit institutions	534.1	469.5	375.7	-20.0	345.5	-8.0
Nonprofit-administered FFRDCs	1,295.2	885.1	819.9	-7.4	784.5	-4.3
State and local governments	101.0	72.1	79.7	10.6	68.9	-13.5
Foreign	429.2	337.6	384.1	13.8	401.9	4.6
R&D plant	2,150.7	1,909.8	2,220.0	16.2	3,102.9	39.8
Performer						
Intramural ^a	486.2	678.0	749.2	10.5	1,131.6	51.0
Industry	460.5	231.5	272.1	17.5	675.7	148.3
Industry-administered FFRDCs	51.8	79.5	77.0	-3.1	80.2	4.1
Universities and colleges	372.5	236.6	281.2	18.8	329.1	17.0
University-administered FFRDCs	248.1	246.2	308.4	25.3	331.8	7.6
Other nonprofit institutions	200.8	184.1	192.5	4.5	196.3	2.0
Nonprofit-administered FFRDCs	323.1	249.8	336.9	34.9	356.6	5.8
State and local governments	*	0.2	0.0	-100.0	0.0	-
Foreign	7.6	3.9	2.6	-32.5	1.6	-39.6

* = 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%. - = no value possible.

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 actual dollars reported.

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