

TABLE 136. Federal obligations for basic research, by detailed field of science and engineering: FYs 2005–15
(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary	
										2014	2015
All fields	27,140.3	26,584.6	26,865.8	27,154.0	32,879.4	31,795.3	29,313.6	30,958.9	29,779.4	31,602.5	31,455.9
Computer sciences and mathematics	1,228.4	1,208.2	1,293.5	1,407.4	1,861.4	1,663.2	1,788.5	1,794.9	1,690.8	1,827.3	1,888.2
Computer sciences	658.1	670.9	708.3	733.8	978.1	873.6	936.4	922.4	859.9	NA	NA
Mathematics	542.5	518.6	561.0	645.0	804.3	716.6	741.3	806.2	757.5	NA	NA
Other computer sciences and mathematics	27.8	18.7	24.2	28.6	79.0	73.0	110.7	66.3	73.4	NA	NA
Engineering	2,300.5	2,364.6	2,629.9	2,736.0	3,406.2	3,491.1	3,168.0	3,458.9	3,407.5	3,625.2	3,619.9
Aeronautical engineering	317.7	242.7	195.1	149.5	185.3	151.3	153.2	401.9	408.9	NA	NA
Astronautical engineering	72.9	57.8	43.8	32.0	35.3	31.6	32.9	79.4	85.0	NA	NA
Chemical engineering	66.8	67.6	109.0	111.6	167.6	142.7	182.7	94.4	84.2	NA	NA
Civil engineering	62.2	67.4	123.6	126.2	185.5	155.2	149.2	35.3	28.2	NA	NA
Electrical engineering	212.6	205.1	246.4	221.4	297.4	295.0	281.0	298.7	259.4	NA	NA
Mechanical engineering	76.7	70.5	77.6	65.8	84.3	80.3	82.3	156.4	146.9	NA	NA
Metallurgy and materials engineering	665.9	811.4	959.9	993.2	1,112.6	1,091.4	1,077.2	1,186.1	1,201.1	NA	NA
Other engineering	825.7	842.1	874.5	1,036.2	1,338.3	1,543.7	1,209.5	1,206.7	1,193.9	NA	NA
Environmental sciences	1,966.1	1,849.5	1,727.8	1,593.1	2,142.9	1,787.4	1,796.4	2,258.7	2,395.8	2,617.6	2,563.2
Atmospheric sciences	743.6	666.3	583.6	523.2	650.5	596.9	612.5	952.3	994.8	NA	NA
Geological sciences	470.3	444.6	426.8	303.0	429.7	332.6	396.4	501.5	411.2	NA	NA
Oceanography	431.1	416.5	436.9	433.6	549.2	471.6	483.0	494.4	456.5	NA	NA
Other environmental sciences	321.1	322.2	280.5	333.3	513.5	386.3	304.5	310.3	533.2	NA	NA
Life sciences	15,247.6	14,934.4	15,643.5	15,557.4	17,587.2	17,748.3	15,373.4	16,015.8	15,317.3	15,934.5	15,981.3
Agricultural sciences	511.2	514.3	532.9	494.7	531.4	571.4	547.0	127.5	134.0	NA	NA
Biological sciences (excluding environmental biology)	7,608.0	7,699.8	8,075.5	8,258.7	9,600.1	9,417.4	8,277.1	8,590.2	8,172.7	NA	NA
Environmental biology	339.0	344.3	350.8	368.2	466.6	435.4	434.6	359.7	340.7	NA	NA
Medical sciences	5,702.7	5,454.4	5,504.0	5,314.3	5,747.6	5,786.9	5,085.5	5,550.9	5,347.3	NA	NA
Other life sciences	1,086.7	921.7	1,180.2	1,121.5	1,241.5	1,537.1	1,029.2	1,387.5	1,322.7	NA	NA
Physical sciences	3,738.7	3,515.5	3,544.5	3,403.1	4,121.0	3,984.1	3,815.0	4,556.7	4,432.2	4,882.7	4,679.7
Astronomy	778.4	686.9	592.6	482.5	617.7	504.2	498.8	925.0	973.9	NA	NA
Chemistry	764.0	720.7	732.8	725.8	835.4	827.7	774.3	776.3	714.7	NA	NA
Physics	1,995.9	1,910.8	2,012.3	1,986.6	2,370.4	2,377.0	2,275.2	2,568.0	2,468.8	NA	NA
Other physical sciences	200.4	197.1	206.8	208.2	297.5	275.1	266.7	287.4	274.8	NA	NA
Psychology	1,040.1	944.9	978.8	936.0	1,100.5	1,129.2	978.8	1,087.8	1,016.0	1,049.0	1,070.9
Biological aspects	0.3	0.7	1.5	0.5	1.9	10.1	13.4	13.1	13.8	NA	NA
Social aspects	4.3	4.9	5.4	6.6	18.5	18.4	16.9	13.3	16.4	NA	NA
Other psychological sciences	1,035.5	939.3	972.0	928.9	1,080.0	1,100.8	948.5	1,061.5	985.8	NA	NA
Social sciences	391.4	381.0	361.3	330.0	432.2	358.9	371.0	381.4	373.8	397.2	394.9
Anthropology	15.2	14.1	15.3	15.2	27.7	24.3	25.8	26.8	24.1	NA	NA
Economics	51.3	46.3	52.3	43.7	52.0	44.4	54.5	54.6	58.4	NA	NA
Political science	10.5	11.0	8.5	16.5	13.0	9.6	9.3	10.3	8.9	NA	NA

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Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary	
										2014	2015
Sociology	17.9	19.2	40.8	14.0	33.3	29.5	35.5	38.7	24.4	NA	NA
Other social sciences	296.5	290.3	244.3	240.6	306.1	251.1	245.9	251.0	258.1	NA	NA
Other sciences nec	1,227.5	1,386.5	686.4	1,190.9	2,227.9	1,633.0	2,022.6	1,404.6	1,145.8	1,268.8	1,257.8

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. In FY 2006, the National Aeronautics and Space Administration (NASA) reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. Between FY 2006 and FY 2007, NASA's R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for \$850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS obligations as research rather than R&D plant. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009.

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