

TABLE 134. Federal obligations for 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	53,738.2	53,535.7	54,093.6	53,893.7	63,691.9	63,728.0	58,023.7	61,946.9	59,199.8	62,663.0	62,595.4
Computer sciences and mathematics	2,983.4	2,814.9	2,945.7	3,047.3	3,611.8	3,411.8	3,374.3	3,527.5	3,427.0	3,776.6	3,878.8
Computer sciences	2,157.1	1,987.8	2,077.7	2,053.0	2,422.2	2,362.0	2,191.7	2,392.2	2,361.5	NA	NA
Mathematics	686.6	669.2	708.6	782.9	927.9	835.5	891.6	925.3	864.0	NA	NA
Other computer sciences and mathematics	139.7	157.9	159.4	211.4	261.6	214.4	291.0	210.1	201.4	NA	NA
Engineering	8,552.9	8,678.7	8,989.7	8,975.5	10,285.0	11,081.2	10,057.2	11,403.4	10,948.2	11,496.1	11,649.7
Aeronautical engineering	1,276.3	1,229.2	929.2	810.3	907.8	830.1	845.1	1,814.9	1,842.1	NA	NA
Astronautical engineering	494.1	476.3	341.0	288.1	370.2	389.9	410.1	690.2	737.3	NA	NA
Chemical engineering	283.8	294.6	353.8	345.6	447.1	509.7	474.5	349.6	419.0	NA	NA
Civil engineering	279.2	352.7	461.5	488.0	678.9	699.8	617.1	513.6	446.9	NA	NA
Electrical engineering	1,033.5	1,035.5	1,027.5	1,046.5	1,254.0	1,360.9	1,235.5	1,324.6	1,163.2	NA	NA
Mechanical engineering	323.7	298.2	337.2	292.4	314.3	363.6	309.8	372.2	548.6	NA	NA
Metallurgy and materials engineering	1,184.1	1,250.0	1,479.8	1,623.9	1,721.6	1,758.8	1,621.3	1,699.2	1,729.3	NA	NA
Other engineering	3,678.3	3,742.3	4,059.8	4,080.8	4,591.2	5,168.4	4,543.8	4,639.1	4,061.8	NA	NA
Environmental sciences	3,502.6	3,430.6	3,170.5	2,984.6	3,751.1	3,338.9	3,207.2	3,884.3	4,041.0	4,330.8	4,183.1
Atmospheric sciences	1,185.1	1,166.9	964.6	884.5	1,018.1	953.8	953.9	1,469.2	1,542.4	NA	NA
Geological sciences	673.5	653.9	638.0	517.5	754.0	530.4	597.8	725.7	626.6	NA	NA
Oceanography	771.5	745.8	787.8	788.7	834.2	743.7	723.7	813.5	787.6	NA	NA
Other environmental sciences	872.5	864.0	780.1	793.9	1,144.8	1,111.0	931.7	875.8	1,084.4	NA	NA
Life sciences	28,127.8	27,927.7	29,463.6	28,918.8	33,267.1	33,909.1	29,408.6	30,966.7	29,329.9	30,530.6	30,595.5
Agricultural sciences	1,094.2	1,108.2	1,139.4	1,020.3	1,120.4	1,131.9	1,085.0	330.0	332.7	NA	NA
Biological sciences (excluding environmental biology)	13,351.6	13,690.8	14,429.7	14,443.1	17,376.8	17,213.9	15,178.3	15,962.4	15,057.2	NA	NA
Environmental biology	699.0	686.6	757.2	858.0	963.7	816.4	854.9	721.1	711.7	NA	NA
Medical sciences	10,862.1	10,592.2	10,790.7	10,387.3	11,392.7	11,677.0	10,161.1	11,077.3	10,620.1	NA	NA
Other life sciences	2,120.9	1,849.9	2,346.5	2,210.1	2,413.6	3,070.0	2,129.4	2,876.0	2,608.2	NA	NA
Physical sciences	5,493.7	5,351.1	5,136.1	5,072.6	5,821.1	5,870.8	5,426.6	6,407.5	6,281.9	6,559.0	6,400.4
Astronomy	884.9	792.5	655.9	527.9	671.5	559.9	555.4	1,099.4	1,147.0	NA	NA
Chemistry	1,197.5	1,126.4	1,149.9	1,148.4	1,274.0	1,310.6	1,106.3	1,103.0	982.2	NA	NA
Physics	3,041.3	3,001.8	2,939.2	2,968.9	3,356.1	3,470.1	3,268.8	3,708.3	3,481.8	NA	NA
Other physical sciences	370.0	430.5	391.1	427.4	519.6	530.2	496.1	496.7	670.9	NA	NA
Psychology	1,891.8	1,747.3	1,837.9	1,740.8	2,086.3	2,155.6	1,886.8	2,086.6	1,935.2	1,985.7	2,014.2
Biological aspects	2.3	3.0	3.8	21.8	2.1	13.6	16.4	14.2	14.3	NA	NA
Social aspects	46.6	40.9	36.8	18.8	50.8	74.5	54.5	61.7	64.9	NA	NA
Other psychological sciences	1,842.8	1,703.4	1,797.3	1,700.3	2,033.4	2,067.4	1,816.0	2,010.8	1,856.0	NA	NA
Social sciences	1,097.1	1,123.9	1,147.1	977.0	1,156.7	1,197.3	1,262.4	1,124.5	1,237.3	1,430.7	1,331.7
Anthropology	18.0	15.1	16.1	17.4	29.4	24.7	26.1	30.2	26.3	NA	NA
Economics	215.9	202.6	250.0	212.3	230.1	274.0	398.6	343.5	333.0	NA	NA
Political science	32.7	44.6	41.2	29.2	24.6	14.2	12.0	12.9	11.0	NA	NA

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(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary	
										2014	2015
Sociology	70.2	144.2	217.6	95.2	138.8	132.3	132.5	154.7	137.2	NA	NA
Other social sciences	760.4	717.4	622.2	622.9	733.8	752.0	693.2	583.2	729.8	NA	NA
Other sciences nec	2,088.9	2,461.3	1,403.1	2,177.1	3,712.7	2,763.2	3,400.5	2,546.3	1,999.3	2,553.7	2,541.9

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.