

TABLE 118. Federal obligations for basic research, by detailed field of science and engineering: FYs 2002–12

(Dollars in millions)

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary	
										2011	2012
All fields	23,668.3	24,751.4	26,120.7	27,140.3	26,584.6	26,865.8	27,154.0	32,873.1	31,795.3	29,060.8	30,664.8
Environmental sciences	1,833.3	1,899.5	2,022.9	1,966.1	1,849.5	1,727.8	1,593.1	2,142.9	1,787.4	1,708.4	1,922.1
Atmospheric sciences	684.1	668.1	726.8	743.6	666.3	583.6	523.2	650.5	596.9	NA	NA
Geological sciences	426.0	461.9	482.0	470.3	444.6	426.8	303.0	429.7	332.6	NA	NA
Oceanography	427.0	442.2	452.6	431.1	416.5	436.9	433.6	549.2	471.6	NA	NA
Environmental sciences, nec	296.1	327.3	361.5	321.1	322.2	280.5	333.3	513.5	386.3	NA	NA
Life sciences	14,024.1	14,765.3	14,490.0	15,247.6	14,934.4	15,643.5	15,557.4	17,587.2	17,748.3	15,671.7	16,192.0
Biological and agricultural sciences	9,244.8	11,323.8	8,055.6	8,458.2	8,558.4	8,959.3	9,121.5	10,598.1	10,424.3	NA	NA
Agricultural sciences	530.6	528.3	503.7	511.2	514.3	532.9	494.7	531.4	571.4	NA	NA
Biological sciences (excluding environmental biology)	8,379.7	10,471.5	7,222.8	7,608.0	7,699.8	8,075.5	8,258.7	9,600.1	9,417.4	NA	NA
Environmental biology	334.5	324.0	329.1	339.0	344.3	350.8	368.2	466.6	435.4	NA	NA
Medical sciences	3,361.0	2,919.1	5,477.2	5,702.7	5,454.4	5,504.0	5,314.3	5,747.6	5,786.9	NA	NA
Life sciences, nec	1,418.3	522.3	957.1	1,086.7	921.7	1,180.2	1,121.5	1,241.5	1,537.1	NA	NA
Mathematics and computer sciences	998.7	1,120.2	1,239.1	1,228.4	1,208.2	1,293.5	1,407.4	1,861.4	1,663.2	1,592.4	1,849.3
Computer sciences	636.9	730.5	712.2	658.1	670.9	708.3	733.8	978.1	873.6	NA	NA
Mathematics	325.6	359.8	479.1	542.5	518.6	561.0	645.0	804.3	716.6	NA	NA
Mathematics and computer sciences, nec	36.2	30.0	47.9	27.8	18.7	24.2	28.6	79.0	73.0	NA	NA
Physical sciences	3,405.9	3,454.0	3,662.6	3,738.7	3,515.5	3,544.5	3,403.1	4,121.0	3,984.1	3,734.1	4,083.6
Astronomy	603.3	696.0	765.4	778.4	686.9	592.6	482.5	617.7	504.2	NA	NA
Chemistry	748.8	748.6	776.0	764.0	720.7	732.8	725.8	835.4	827.7	NA	NA
Physics	1,861.7	1,820.6	1,904.5	1,995.9	1,910.8	2,012.3	1,986.6	2,370.4	2,377.0	NA	NA
Physical sciences, nec	192.0	188.8	216.7	200.4	197.1	206.8	208.2	297.5	275.1	NA	NA
Psychology	464.6	543.8	979.2	1,040.1	944.9	978.8	936.0	1,100.5	1,129.2	993.3	1,009.0
Biological aspects	7.8	10.6	0.9	0.3	0.7	1.5	0.5	1.9	10.1	NA	NA
Social aspects	4.8	4.1	5.0	4.3	4.9	5.4	6.6	18.5	18.4	NA	NA
Psychological sciences, nec	452.0	529.2	973.2	1,035.5	939.3	972.0	928.9	1,080.0	1,100.8	NA	NA
Social sciences	361.7	352.8	419.3	391.4	381.0	361.3	330.0	426.0	358.9	378.4	377.0
Anthropology	15.2	12.7	12.9	15.2	14.1	15.3	15.2	27.7	24.3	NA	NA
Economics	45.3	48.2	48.0	51.3	46.3	52.3	43.7	45.7	44.4	NA	NA
Political science	5.7	6.0	6.7	10.5	11.0	8.5	16.5	13.0	9.6	NA	NA
Sociology	19.5	48.7	48.6	17.9	19.2	40.8	14.0	33.3	29.5	NA	NA
Social sciences, nec	276.0	237.1	303.1	296.5	290.3	244.3	240.6	306.1	251.1	NA	NA
Other sciences, nec	715.2	702.7	1,035.9	1,227.5	1,386.5	686.4	1,190.9	2,227.9	1,633.0	1,465.0	1,554.3
Engineering	1,864.9	1,913.1	2,271.7	2,300.5	2,364.6	2,629.9	2,736.0	3,406.2	3,491.1	3,517.5	3,677.6
Aeronautical engineering	330.1	255.8	304.2	317.7	242.7	195.1	149.5	185.3	151.3	NA	NA
Astronautical engineering	68.1	59.5	67.1	72.9	57.8	43.8	32.0	35.3	31.6	NA	NA
Chemical engineering	62.3	71.5	68.6	66.8	67.6	109.0	111.6	167.6	142.7	NA	NA
Civil engineering	46.5	51.1	55.6	62.2	67.4	123.6	126.2	185.5	155.2	NA	NA
Electrical engineering	213.0	226.3	199.6	212.6	205.1	246.4	221.4	297.4	295.0	NA	NA

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(Dollars in millions)

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary	
										2011	2012
Mechanical engineering	89.2	96.3	89.6	76.7	70.5	77.6	65.8	84.3	80.3	NA	NA
Metallurgy and materials engineering	507.8	581.0	592.0	665.9	811.4	959.9	993.2	1,112.6	1,091.4	NA	NA
Engineering, nec	547.8	571.7	895.0	825.7	842.1	874.5	1,036.2	1,338.3	1,543.7	NA	NA

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. Between FY 2006 and FY 2007, National Aeronautics and Space Administration's (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 decrease; and (2) there was overall decrease in obligations between FY 2006 and FY 2007, which accounts for remainder of decrease. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.

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