

TABLE 119. Federal obligations for research, by detailed field of science and engineering: FY 2000–10

(Dollars in millions)

Field	2000	2001	2002	2003	2004	2005	2006	2007	2008	Preliminary	
										2009	2010
All fields	38,470.6	44,713.7	48,006.7	51,071.8	53,357.8	53,738.2	53,535.7	54,093.6	53,893.7	59,429.9	58,354.8
Environmental sciences	3,328.8	3,251.7	3,418.3	3,740.9	3,741.6	3,502.6	3,430.6	3,170.5	2,984.6	3,646.2	3,385.6
Atmospheric sciences	1,104.3	1,113.6	1,163.5	1,259.4	1,259.7	1,185.1	1,166.9	964.6	884.5	NA	NA
Geological sciences	639.2	673.8	674.9	725.0	704.5	673.5	653.9	638.0	517.5	NA	NA
Oceanography	673.0	681.1	784.6	846.1	809.1	771.5	745.8	787.8	788.7	NA	NA
Environmental sciences, nec	912.2	783.3	795.2	910.3	968.4	872.5	864.0	780.1	793.9	NA	NA
Life sciences	17,964.7	23,057.3	25,476.8	27,772.2	27,728.5	28,127.8	27,927.7	29,463.6	28,918.8	30,466.4	30,636.9
Biological and agricultural sciences	12,375.0	14,116.4	16,325.1	20,407.3	14,848.7	15,144.8	15,485.6	16,326.3	16,321.4	NA	NA
Agricultural sciences	895.0	1,007.7	1,047.6	1,046.0	1,086.8	1,094.2	1,108.2	1,139.4	1,020.3	NA	NA
Biological sciences (excluding environmental biology)	10,740.0	12,380.0	14,498.5	18,643.5	13,091.9	13,351.6	13,690.8	14,429.7	14,443.1	NA	NA
Environmental biology	740.0	728.8	778.9	717.9	670.0	699.0	686.6	757.2	858.0	NA	NA
Medical sciences	4,463.8	6,585.2	6,427.4	6,160.3	10,898.8	10,862.1	10,592.2	10,790.7	10,387.3	NA	NA
Life sciences, nec	1,125.9	2,355.7	2,724.4	1,204.6	1,981.0	2,120.9	1,849.9	2,346.5	2,210.1	NA	NA
Mathematics and computer sciences	2,205.6	2,610.6	2,630.7	2,672.5	2,949.4	2,983.4	2,814.9	2,945.7	3,047.3	3,707.0	3,364.1
Computer sciences	1,659.6	2,022.8	2,043.2	2,052.8	2,144.9	2,157.1	1,987.8	2,077.7	2,053.0	NA	NA
Mathematics	432.9	396.4	402.0	452.9	617.8	686.6	669.2	708.6	782.9	NA	NA
Mathematics and computer sciences, nec	113.1	191.4	185.5	166.7	186.7	139.7	157.9	159.4	211.4	NA	NA
Physical sciences	4,788.0	4,600.8	4,983.2	5,021.6	5,211.1	5,493.7	5,351.1	5,136.1	5,072.6	6,070.9	5,788.4
Astronomy	880.3	759.2	751.5	871.8	920.8	884.9	792.5	655.9	527.9	NA	NA
Chemistry	1,225.6	1,024.9	1,181.7	1,137.9	1,191.0	1,197.5	1,126.4	1,149.9	1,148.4	NA	NA
Physics	2,405.4	2,461.7	2,621.4	2,500.2	2,598.6	3,041.3	3,001.8	2,939.2	2,968.9	NA	NA
Physical sciences, nec	276.7	354.9	428.6	511.7	500.8	370.0	430.5	391.1	427.4	NA	NA
Psychology	1,626.7	741.9	905.9	1,104.4	1,854.9	1,891.8	1,747.3	1,837.9	1,740.8	1,842.3	1,875.6
Biological aspects	8.2	13.6	10.6	23.2	6.0	2.3	3.0	3.8	21.8	NA	NA
Social aspects	56.0	59.8	52.5	50.6	51.7	46.6	40.9	36.8	18.8	NA	NA
Psychological sciences, nec	1,562.5	668.5	842.8	1,030.6	1,797.2	1,842.8	1,703.4	1,797.3	1,700.3	NA	NA
Social sciences	1,050.4	1,008.6	983.0	1,025.8	1,089.6	1,097.1	1,123.9	1,147.1	977.0	1,260.8	1,278.7
Anthropology	15.9	15.6	16.4	14.5	15.0	18.0	15.1	16.1	17.4	NA	NA
Economics	249.5	234.1	227.3	234.5	204.6	215.9	202.6	250.0	212.3	NA	NA
Political science	22.6	19.5	18.4	18.5	18.7	32.7	44.6	41.2	29.2	NA	NA
Sociology	90.6	95.5	96.1	124.7	120.1	70.2	144.2	217.6	95.2	NA	NA
Social sciences, nec	671.8	644.0	624.7	633.6	731.2	760.4	717.4	622.2	622.9	NA	NA
Other sciences, nec	1,160.2	1,245.8	1,334.0	1,329.3	1,916.3	2,088.9	2,461.3	1,403.1	2,177.1	2,564.0	2,436.3
Engineering	6,346.4	8,197.0	8,274.9	8,405.1	8,866.4	8,552.9	8,678.7	8,989.7	8,975.5	9,872.5	9,589.1
Aeronautical engineering	1,463.9	2,430.1	2,157.1	1,732.2	1,640.8	1,276.3	1,229.2	929.2	810.3	NA	NA
Astronautical engineering	515.0	752.7	760.8	702.5	664.9	494.1	476.3	341.0	288.1	NA	NA
Chemical engineering	196.5	199.0	201.6	327.9	318.8	283.8	294.6	353.8	345.6	NA	NA
Civil engineering	239.2	288.4	302.7	339.6	330.3	279.2	352.7	461.5	488.0	NA	NA

TABLE 119. Federal obligations for research, by detailed field of science and engineering: FY 2000–10

(Dollars in millions)

Field	2000	2001	2002	2003	2004	2005	2006	2007	2008	Preliminary	
										2009	2010
Electrical engineering	744.8	889.7	808.7	950.0	890.9	1,033.5	1,035.5	1,027.5	1,046.5	NA	NA
Mechanical engineering	289.3	319.2	265.9	298.4	301.9	323.7	298.2	337.2	292.4	NA	NA
Metallurgy and materials engineering	918.1	1,080.8	1,000.5	1,083.7	1,037.2	1,184.1	1,250.0	1,479.8	1,623.9	NA	NA
Engineering, nec	1,979.6	2,237.0	2,777.6	2,970.8	3,681.6	3,678.3	3,742.3	4,059.8	4,080.8	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. In FY 2000, National Aeronautics and Space Administration (NASA) reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2000, National Institutes of Health reclassified all its development activities as research. 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. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2008–10.