

TABLE 123. Federal obligations for applied 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	18,900.8	22,755.6	24,338.4	26,320.4	27,237.1	26,597.9	26,951.1	27,227.8	26,739.7	28,494.5	28,507.2
Environmental sciences	1,490.3	1,588.6	1,585.0	1,841.4	1,718.7	1,536.5	1,581.1	1,442.7	1,391.5	1,517.8	1,494.7
Atmospheric sciences	387.3	516.4	479.4	591.3	532.9	441.5	500.7	380.9	361.3	NA	NA
Geological sciences	209.6	273.2	248.9	263.1	222.5	203.2	209.3	211.2	214.5	NA	NA
Oceanography	308.1	278.7	357.6	403.9	356.5	340.4	329.4	350.9	355.1	NA	NA
Environmental sciences, nec	585.3	520.4	499.1	583.0	606.9	551.4	541.8	499.6	460.6	NA	NA
Life sciences	7,915.7	10,221.8	11,452.7	13,007.0	13,238.5	12,880.2	12,993.3	13,820.1	13,361.5	13,998.1	14,182.1
Biological and agricultural sciences	4,764.6	5,342.7	7,080.2	9,083.5	6,793.0	6,686.6	6,927.2	7,367.1	7,199.8	NA	NA
Agricultural sciences	449.2	496.0	517.1	517.7	583.1	583.0	593.9	606.5	525.6	NA	NA
Biological sciences (excluding environmental biology)	3,888.9	4,427.7	6,118.8	8,172.0	5,869.1	5,743.6	5,991.1	6,354.2	6,184.4	NA	NA
Environmental biology	426.4	419.0	444.4	393.8	340.8	360.0	342.3	406.4	489.9	NA	NA
Medical sciences	2,540.0	3,776.6	3,066.4	3,241.2	5,421.5	5,159.4	5,137.8	5,286.7	5,073.0	NA	NA
Life sciences, nec	611.2	1,102.6	1,306.0	682.3	1,023.9	1,034.2	928.2	1,166.3	1,088.6	NA	NA
Mathematics and computer sciences	1,407.3	1,652.8	1,632.0	1,552.2	1,710.3	1,754.9	1,606.7	1,652.1	1,639.8	1,830.7	1,722.7
Computer sciences	1,196.6	1,437.2	1,406.3	1,322.3	1,432.7	1,499.0	1,316.9	1,369.4	1,319.2	NA	NA
Mathematics	124.3	108.0	76.4	93.2	138.7	144.1	150.5	147.5	137.8	NA	NA
Mathematics and computer sciences, nec	86.5	107.6	149.3	136.7	138.9	111.9	139.3	135.2	182.8	NA	NA
Physical sciences	1,317.3	1,273.6	1,577.4	1,567.6	1,548.6	1,755.0	1,835.6	1,591.6	1,669.5	1,786.5	1,763.9
Astronomy	86.3	109.0	148.2	175.8	155.4	106.5	105.5	63.3	45.4	NA	NA
Chemistry	459.8	288.1	432.9	389.3	415.0	433.5	405.7	417.1	422.6	NA	NA
Physics	641.0	699.5	759.6	679.6	694.0	1,045.4	1,091.0	926.9	982.4	NA	NA
Physical sciences, nec	130.3	177.0	236.6	322.9	284.1	169.6	233.4	184.3	219.2	NA	NA
Psychology	808.9	449.0	441.3	560.6	875.6	851.6	802.4	859.1	804.8	861.9	887.0
Biological aspects	2.5	3.2	2.8	12.7	5.0	2.0	2.3	2.3	21.2	NA	NA
Social aspects	41.7	54.3	47.7	46.5	46.6	42.3	36.0	31.4	12.2	NA	NA
Psychological sciences, nec	764.7	391.5	390.8	501.5	824.0	807.3	764.1	825.3	771.4	NA	NA
Social sciences	742.4	730.2	621.3	673.0	670.3	705.8	742.9	785.9	647.0	818.7	891.9
Anthropology	1.9	1.5	1.2	1.8	2.1	2.8	1.0	0.8	2.2	NA	NA
Economics	197.7	191.5	182.1	186.2	156.7	164.6	156.3	197.7	168.6	NA	NA
Political science	17.5	13.6	12.7	12.5	12.0	22.2	33.6	32.7	12.7	NA	NA
Sociology	78.8	77.6	76.6	76.0	71.5	52.2	124.9	176.8	81.2	NA	NA
Social sciences, nec	446.5	446.0	348.7	396.5	428.0	463.9	427.1	377.9	382.2	NA	NA
Other sciences, nec	636.6	554.1	618.8	626.6	880.5	861.4	1,074.9	716.7	986.2	1,008.8	1,003.0
Engineering	4,582.2	6,285.5	6,410.0	6,492.0	6,594.7	6,252.5	6,314.2	6,359.8	6,239.5	6,672.0	6,562.0
Aeronautical engineering	1,141.1	2,060.3	1,827.0	1,476.5	1,336.6	958.6	986.5	734.0	660.8	NA	NA
Astronautical engineering	426.3	718.9	692.6	643.0	597.8	421.2	418.6	297.2	256.1	NA	NA
Chemical engineering	143.9	138.9	139.2	256.4	250.2	217.0	227.0	244.8	234.0	NA	NA
Civil engineering	179.5	240.5	256.1	288.5	274.7	217.1	285.2	337.9	361.8	NA	NA

TABLE 123. Federal obligations for applied 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	567.7	642.8	595.6	723.7	691.3	820.9	830.3	781.1	825.1	NA	NA
Mechanical engineering	195.9	190.4	176.7	202.2	212.3	247.0	227.7	259.5	226.6	NA	NA
Metallurgy and materials engineering	400.3	489.7	492.8	502.7	445.2	518.2	438.6	519.9	630.7	NA	NA
Engineering, nec	1,527.4	1,803.9	2,229.9	2,399.1	2,786.6	2,852.5	2,900.2	3,185.3	3,044.6	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. In FY 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories as non-R&D that were considered R&D in prior years. 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.