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Federal obligations for applied research, by detailed field of science and engineering: FYs 2001–11

(Dollars in millions)

Field	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
All fields	22,755.6	24,338.4	26,320.4	27,237.1	26,597.9	26,951.1	27,227.8	26,739.7	30,812.5	31,932.6	28,751.2
Computer sciences and mathematics	1,652.8	1,632.0	1,552.2	1,710.3	1,754.9	1,606.7	1,652.1	1,639.8	1,750.3	1,748.6	1,585.9
Computer sciences	1,437.2	1,406.3	1,322.3	1,432.7	1,499.0	1,316.9	1,369.4	1,319.2	1,444.1	1,488.4	1,255.2
Mathematics	108.0	76.4	93.2	138.7	144.1	150.5	147.5	137.8	123.6	118.9	150.3
Other computer sciences and mathematics	107.6	149.3	136.7	138.9	111.9	139.3	135.2	182.8	182.7	141.4	180.4
Engineering	6,285.5	6,410.0	6,492.0	6,594.7	6,252.5	6,314.2	6,359.8	6,239.5	6,878.8	7,590.0	6,889.2
Aeronautical engineering	2,060.3	1,827.0	1,476.5	1,336.6	958.6	986.5	734.0	660.8	722.5	678.8	691.9
Astronautical engineering	718.9	692.6	643.0	597.8	421.2	418.6	297.2	256.1	334.9	358.3	377.2
Chemical engineering	138.9	139.2	256.4	250.2	217.0	227.0	244.8	234.0	279.4	366.9	291.8
Civil engineering	240.5	256.1	288.5	274.7	217.1	285.2	337.9	361.8	493.4	544.6	467.9
Electrical engineering	642.8	595.6	723.7	691.3	820.9	830.3	781.1	825.1	956.6	1,065.9	954.4
Mechanical engineering	190.4	176.7	202.2	212.3	247.0	227.7	259.5	226.6	230.1	283.3	227.5
Metallurgy and materials engineering	489.7	492.8	502.7	445.2	518.2	438.6	519.9	630.7	609.0	667.4	544.0
Other engineering	1,803.9	2,229.9	2,399.1	2,786.6	2,852.5	2,900.2	3,185.3	3,044.6	3,252.9	3,624.7	3,334.4
Environmental sciences	1,588.6	1,585.0	1,841.4	1,718.7	1,536.5	1,581.1	1,442.7	1,391.5	1,608.2	1,551.5	1,410.7
Atmospheric sciences	516.4	479.4	591.3	532.9	441.5	500.7	380.9	361.3	367.6	356.9	341.4
Geological sciences	273.2	248.9	263.1	222.5	203.2	209.3	211.2	214.5	324.3	197.7	201.4
Oceanography	278.7	357.6	403.9	356.5	340.4	329.4	350.9	355.1	285.0	272.1	240.7
Other environmental sciences	520.4	499.1	583.0	606.9	551.4	541.8	499.6	460.6	631.3	724.8	627.2
Life sciences	10,221.8	11,452.7	13,007.0	13,238.5	12,880.2	12,993.3	13,820.1	13,361.5	15,679.9	16,160.8	14,076.3
Agricultural sciences	496.0	517.1	517.7	583.1	583.0	593.9	606.5	525.6	589.0	560.4	538.0
Biological sciences (excluding environmental biology)	4,427.7	6,118.8	8,172.0	5,869.1	5,743.6	5,991.1	6,354.2	6,184.4	7,776.7	7,796.5	6,901.2
Environmental biology	419.0	444.4	393.8	340.8	360.0	342.3	406.4	489.9	497.0	380.9	420.3
Medical sciences	3,776.6	3,066.4	3,241.2	5,421.5	5,159.4	5,137.8	5,286.7	5,073.0	5,645.1	5,890.1	5,116.7
Other life sciences	1,102.6	1,306.0	682.3	1,023.9	1,034.2	928.2	1,166.3	1,088.6	1,172.1	1,532.9	1,100.1
Physical sciences	1,273.6	1,577.4	1,567.6	1,548.6	1,755.0	1,835.6	1,591.6	1,669.5	1,700.1	1,886.7	1,611.6
Astronomy	109.0	148.2	175.8	155.4	106.5	105.5	63.3	45.4	53.8	55.7	56.6
Chemistry	288.1	432.9	389.3	415.0	433.5	405.7	417.1	422.6	438.6	482.9	332.0
Physics	699.5	759.6	679.6	694.0	1,045.4	1,091.0	926.9	982.4	985.7	1,093.0	993.6
Other physical sciences	177.0	236.6	322.9	284.1	169.6	233.4	184.3	219.2	222.0	255.1	229.4
Psychology	449.0	441.3	560.6	875.6	851.6	802.4	859.1	804.8	985.9	1,026.4	908.1
Biological aspects	3.2	2.8	12.7	5.0	2.0	2.3	2.3	21.2	0.2	3.5	3.0
Social aspects	54.3	47.7	46.5	46.6	42.3	36.0	31.4	12.2	32.3	56.2	37.6
Other psychological sciences	391.5	390.8	501.5	824.0	807.3	764.1	825.3	771.4	953.3	966.6	867.5
Social sciences	730.2	621.3	673.0	670.3	705.8	742.9	785.9	647.0	724.5	838.4	891.4
Anthropology	1.5	1.2	1.8	2.1	2.8	1.0	0.8	2.2	1.6	0.4	0.3
Economics	191.5	182.1	186.2	156.7	164.6	156.3	197.7	168.6	178.1	229.6	344.1
Political science	13.6	12.7	12.5	12.0	22.2	33.6	32.7	12.7	11.6	4.7	2.7
Sociology	77.6	76.6	76.0	71.5	52.2	124.9	176.8	81.2	105.5	102.8	97.0
Other social sciences	446.0	348.7	396.5	428.0	463.9	427.1	377.9	382.2	427.7	500.9	447.3
Other sciences nec	554.1	618.8	626.6	880.5	861.4	1,074.9	716.7	986.2	1,484.8	1,130.2	1,377.9

nec = not elsewhere classified.

Note(s):

Because of rounding, detail may not add to total. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009.

Source(s):

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