

Federal obligations for total research, by detailed S&E field: FY 1984–2005

(Millions of 2000 dollars)

Field	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
All fields.....	22,217.9	23,177.9	23,168.7	24,547.2	24,739.8	26,515.7	26,621.0	28,441.7	28,349.1	30,447.7	30,378.3	30,850.2
Engineering.....	5,375.6	5,197.2	5,249.3	5,344.8	5,248.3	5,672.3	5,203.7	5,867.3	5,761.1	6,226.9	6,072.5	6,193.4
Aeronautical.....	1,276.2	1,060.2	1,088.9	1,108.8	1,063.6	1,260.1	1,141.4	1,205.9	1,012.4	1,350.8	1,355.1	1,354.4
Astronautical.....	588.6	610.1	739.8	854.6	763.3	865.0	715.1	775.0	729.7	559.3	553.1	592.9
Chemical.....	214.3	365.3	345.1	295.3	342.4	181.6	297.8	361.1	344.4	278.0	264.0	267.0
Civil.....	300.8	311.2	284.9	279.7	285.1	293.4	391.1	361.9	382.2	285.3	308.0	368.2
Electrical.....	934.5	900.5	946.8	1,075.9	969.8	1,076.6	788.0	866.1	878.6	998.1	822.1	820.6
Mechanical.....	282.6	383.6	332.0	319.5	319.4	328.7	330.3	398.1	390.3	528.7	419.0	447.5
Metallurgy and materials.....	506.0	631.0	624.8	495.3	605.8	665.3	682.7	843.3	841.8	787.7	943.6	884.6
Engineering, NEC.....	1,272.7	935.3	886.9	915.8	899.1	1,001.7	857.3	1,055.9	1,181.6	1,439.0	1,407.7	1,458.2
Environmental sciences.....	1,892.5	2,016.6	2,080.3	2,068.3	2,131.7	2,264.2	2,676.7	2,551.0	2,555.4	2,953.6	3,145.4	3,096.9
Atmospheric sciences.....	643.9	698.2	731.9	756.5	779.7	750.8	952.2	952.5	888.2	1,114.3	1,213.5	1,232.1
Geological sciences.....	532.5	616.3	623.2	604.4	585.8	693.1	813.9	864.7	851.6	903.5	928.7	920.4
Oceanography.....	539.2	572.5	603.3	584.8	610.7	628.1	640.3	473.0	531.2	529.2	550.6	441.9
Environmental sciences, NEC.....	177.0	129.6	121.9	122.5	155.3	192.2	270.2	260.8	284.5	406.7	452.7	502.7
Life sciences.....	8,359.7	9,140.6	9,075.7	10,044.9	10,246.7	10,847.5	10,871.1	11,417.8	11,471.9	12,197.1	12,505.8	12,814.5
Biological and agricultural.....	4,931.9	5,395.0	5,421.2	5,963.5	6,066.7	6,410.1	6,375.5	6,642.7	6,521.2	6,860.9	6,763.6	6,946.5
Agricultural sciences.....	759.4	875.3	847.7	775.7	783.6	854.3	851.2	807.3	795.8	807.2	805.9	727.3
Biological sciences (excluding environmental).....	3,801.8	4,145.7	4,202.7	4,791.6	4,883.9	5,086.2	5,102.7	5,289.8	5,133.9	5,423.5	5,259.5	5,343.9
Environmental biology.....	370.8	374.0	370.8	396.2	399.3	469.6	421.4	545.5	591.5	630.1	698.1	875.5
Medical sciences.....	3,133.9	3,402.7	3,313.9	3,646.1	3,901.3	4,114.8	4,164.3	4,106.1	4,525.9	4,987.0	5,388.4	5,394.6
Life sciences, NEC.....	293.8	342.9	340.6	435.4	278.7	322.5	331.3	669.0	424.8	349.1	353.9	473.4
Mathematics and computer sciences.....	653.1	825.9	864.0	876.5	852.8	939.0	1,035.1	1,072.4	1,343.1	1,387.5	1,442.5	1,713.3
Computer sciences.....	318.2	402.7	424.6	407.5	388.3	465.6	692.1	694.1	893.4	935.4	920.1	1,100.0
Mathematics.....	224.0	263.8	259.0	279.8	289.1	301.5	297.1	270.1	368.9	329.3	379.4	280.6
Mathematics and computer sciences, NEC.....	111.0	159.5	180.4	189.2	175.5	172.1	45.9	108.1	80.9	122.9	143.1	332.7
Physical sciences.....	4,403.9	4,376.0	4,308.9	4,450.4	4,400.5	4,731.2	4,689.2	5,025.7	5,138.6	5,012.6	4,713.9	4,641.8
Astronomy.....	567.1	595.8	657.3	714.5	624.5	692.0	735.3	749.6	855.5	777.1	828.5	829.5
Chemistry.....	899.5	934.4	930.0	930.8	932.7	999.3	937.8	983.0	1,037.4	954.7	969.1	936.9
Physics.....	2,723.9	2,608.9	2,535.4	2,536.2	2,620.3	2,797.5	2,776.2	2,920.2	2,984.4	2,987.4	2,707.6	2,659.5
Physical sciences, NEC.....	213.4	236.8	186.2	269.0	223.0	242.5	240.1	373.0	261.3	293.5	208.7	216.1
Psychology.....	395.6	469.9	468.9	505.6	517.1	538.5	552.3	572.4	345.1	623.5	607.8	675.5
Biological aspects.....	119.9	131.0	126.5	134.5	139.7	155.5	160.8	166.4	40.1	42.1	53.3	63.8
Social aspects.....	159.9	205.3	201.5	211.4	198.2	191.4	218.5	234.4	116.8	152.5	129.4	169.6
Psychological sciences, NEC.....	115.8	133.8	141.0	159.7	179.3	191.4	173.0	171.8	188.2	428.8	424.9	442.1
Social sciences.....	647.2	660.9	583.4	656.8	644.4	703.6	775.6	863.0	798.4	764.2	717.5	736.4
Anthropology.....	27.6	25.9	19.1	20.8	19.0	17.8	17.7	19.0	16.3	15.5	18.0	23.5
Economics.....	218.5	229.4	184.3	203.2	211.6	213.0	242.8	222.4	244.9	231.8	214.2	224.1
Political science.....	16.0	21.0	16.3	15.5	16.2	17.2	16.1	20.2	26.2	33.1	28.2	24.2
Sociology.....	104.1	95.5	94.1	101.3	108.5	120.2	143.1	218.3	93.4	86.8	75.5	51.9
Social sciences, NEC.....	281.1	289.2	269.6	316.1	289.2	335.6	355.9	383.2	417.6	396.9	381.7	412.6
Other sciences, NEC.....	490.2	490.8	538.1	599.7	698.4	819.3	817.1	1,072.0	935.6	1,282.3	1,173.0	978.4
All fields.....	30,097.8	30,737.7	31,963.9	34,209.9	38,470.6	43,706.8	46,041.8	48,122.0	50,336.7	49,549.0	4.2	3.9
Engineering.....	6,050.4	5,956.2	6,094.0	6,390.9	6,346.4	8,012.4	7,936.2	7,919.5	8,360.3	8,285.9	2.1	2.1

Federal obligations for total research, by detailed S&E field: FY 1984–2005

(Millions of constant 2000 dollars)

Field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	Average growth rate (%)	
									(preliminary)	(preliminary)	1984–2003	1984–2005
All fields.....	30,097.8	30,737.7	31,963.9	34,209.9	38,470.6	43,706.8	46,041.8	48,122.0	50,336.7	49,549.0	4.2	3.9
Engineering	6,050.4	5,956.2	6,094.0	6,390.9	6,346.4	8,012.4	7,936.2	7,919.5	8,360.3	8,285.9	2.1	2.1
Aeronautical	1,330.7	1,415.9	1,650.2	1,642.5	1,463.9	2,375.4	2,068.8	1,632.1	NA	NA	1.3	NA
Astronautical	560.9	624.2	652.4	633.2	515.0	735.8	729.7	661.9	NA	NA	0.6	NA
Chemical	229.1	246.0	196.5	207.3	196.5	194.5	193.3	309.0	NA	NA	1.9	NA
Civil	319.7	288.5	252.3	335.2	239.2	281.9	290.3	320.0	NA	NA	0.3	NA
Electrical	713.3	651.3	660.8	712.9	744.8	869.7	775.6	895.1	NA	NA	-0.2	NA
Mechanical.....	313.1	266.5	258.0	245.3	289.3	312.0	255.0	281.2	NA	NA	-0.0	NA
Metallurgy and materials.....	1,053.3	900.9	815.7	804.0	918.1	1,056.5	959.5	1,021.1	NA	NA	3.8	NA
Engineering, NEC.....	1,530.5	1,563.0	1,608.0	1,810.4	1,979.6	2,186.6	2,663.9	2,799.2	NA	NA	4.2	NA
Environmental sciences.....	3,216.1	3,188.0	3,165.1	3,158.3	3,328.8	3,178.5	3,278.4	3,524.8	3,658.3	3,547.2	3.3	3.0
Atmospheric sciences.....	1,156.3	1,218.7	1,214.0	1,200.4	1,104.3	1,088.5	1,115.9	1,186.6	NA	NA	3.3	NA
Geological sciences.....	835.3	724.1	623.6	673.6	639.2	658.6	647.3	683.1	NA	NA	1.3	NA
Oceanography	611.7	625.6	578.7	670.0	673.0	665.8	752.5	797.2	NA	NA	2.1	NA
Environmental sciences, NEC.....	612.8	619.5	748.8	614.3	912.2	765.7	762.7	857.7	NA	NA	8.7	NA
Life sciences	12,849.0	13,253.0	14,014.3	15,736.4	17,964.7	22,538.1	24,434.0	26,167.6	27,498.4	26,985.7	6.2	5.7
Biological and agricultural	7,061.1	6,849.8	7,312.1	8,211.5	12,375.0	13,798.5	15,656.9	19,228.3	NA	NA	7.4	NA
Agricultural sciences	656.1	671.3	788.5	866.7	895.0	985.0	1,004.7	985.6	NA	NA	1.4	NA
Biological sciences (excluding environmental)	5,655.3	5,568.8	5,898.8	6,609.4	10,740.0	12,101.2	13,905.1	17,566.4	NA	NA	8.4	NA
Environmental biology	749.8	609.7	624.9	735.3	740.0	712.4	747.0	676.4	NA	NA	3.2	NA
Medical sciences.....	5,296.9	5,791.3	6,198.3	6,939.6	4,463.8	6,436.9	6,164.3	5,804.4	NA	NA	3.3	NA
Life sciences, NEC.....	491.1	611.9	503.8	585.3	1,125.9	2,302.7	2,612.9	1,135.0	NA	NA	7.4	NA
Mathematics and computer sciences.....	1,673.8	1,749.9	1,898.7	2,020.9	2,205.6	2,551.8	2,523.0	2,518.1	2,593.8	2,573.9	7.4	6.7
Computer sciences.....	1,192.6	1,323.8	1,445.8	1,547.0	1,659.6	1,977.3	1,959.6	1,934.2	NA	NA	10.0	NA
Mathematics	271.1	315.7	345.4	352.3	432.9	387.5	385.5	426.7	NA	NA	3.5	NA
Mathematics and computer sciences, NEC.....	210.1	110.4	107.5	121.6	113.1	187.1	177.9	157.1	NA	NA	1.8	NA
Physical sciences	4,178.2	4,343.1	4,351.5	4,149.0	4,788.0	4,497.2	4,779.2	4,731.5	4,977.5	4,867.5	0.4	0.5
Astronomy.....	776.4	810.9	756.9	773.3	880.3	742.1	720.7	821.4	NA	NA	2.0	NA
Chemistry.....	938.4	885.3	846.6	831.5	1,225.6	1,001.8	1,133.3	1,072.2	NA	NA	0.9	NA
Physics.....	2,120.8	2,164.2	2,203.6	2,267.1	2,405.4	2,406.3	2,514.1	2,355.8	NA	NA	-0.8	NA
Physical sciences, NEC.....	342.5	482.5	544.4	276.9	276.7	346.9	411.1	482.1	NA	NA	4.4	NA
Psychology	559.1	570.9	610.9	645.5	1,626.7	725.2	868.8	1,041.5	1,063.9	1,049.1	5.2	4.8
Biological aspects.....	66.9	60.5	43.0	18.4	8.2	13.3	10.2	21.9	NA	NA	-8.6	NA
Social aspects	88.8	101.2	100.8	68.0	56.0	58.5	50.4	47.7	NA	NA	-6.2	NA
Psychological sciences, NEC.....	403.4	409.2	467.1	559.1	1,562.5	653.4	808.3	972.0	NA	NA	11.8	NA
Social sciences.....	697.2	728.8	833.3	872.3	1,050.4	985.9	942.8	966.5	986.6	979.6	2.1	2.0
Anthropology.....	19.5	22.0	18.8	18.7	15.9	15.2	15.7	13.7	NA	NA	-3.6	NA
Economics.....	206.8	214.8	238.3	221.0	249.5	228.8	218.0	221.0	NA	NA	0.1	NA
Political science.....	17.8	14.8	20.9	20.6	22.6	19.1	17.6	17.4	NA	NA	0.4	NA
Sociology	43.9	27.1	104.2	85.5	90.6	93.4	92.2	117.5	NA	NA	0.6	NA
Social sciences, NEC.....	409.2	450.3	451.1	526.5	671.8	629.5	599.1	597.0	NA	NA	4.1	NA
Other sciences, NEC	874.1	947.6	996.2	1,236.8	1,160.2	1,217.7	1,279.4	1,252.5	1,197.9	1,260.2	5.1	4.6

NA = not available

NEC = not elsewhere classified

NOTE: Detail may not add to total because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Statistics, *Federal Funds for Research and Development: Fiscal Years 2003, 2004, and 2005* (forthcoming).