

Federal obligations for total research, by detailed S&E field: FY 1982–2003

Field	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
	Millions of constant 1996 dollars											
All fields	19,814.7	20,774.7	21,055.4	21,953.2	21,926.9	23,199.9	23,353.5	25,039.8	25,127.7	26,810.3	26,695.7	28,628.2
Life sciences, total	7,220.8	7,546.9	7,922.3	8,657.6	8,589.3	9,493.6	9,672.6	10,243.7	10,261.2	10,762.9	10,802.8	11,468.2
Biology and agricultural, total	4,278.5	4,466.4	4,673.9	5,109.9	5,130.6	5,636.2	5,726.8	6,053.3	6,017.9	6,261.6	6,140.8	6,450.9
Biology (excluding environmental)	3,163.9	3,360.3	3,602.9	3,926.7	3,977.4	4,528.6	4,610.2	4,803.1	4,816.5	4,986.4	4,834.4	5,099.4
Environmental biology	279.2	282.2	351.4	354.2	350.9	374.5	376.9	443.5	397.8	514.2	557.0	592.5
Agricultural	835.4	823.8	719.7	829.1	802.3	733.1	739.7	806.7	803.5	761.0	749.4	759.0
Medical sciences, total	2,697.8	2,809.4	2,969.9	3,222.9	3,136.3	3,446.0	3,682.7	3,885.8	3,930.7	3,870.6	4,261.9	4,689.0
Life sciences, NEC	244.5	271.2	278.5	324.8	322.3	411.5	263.1	304.6	312.7	630.6	400.0	328.2
Psychology, total	332.3	351.1	374.9	445.1	443.8	477.8	488.1	508.5	521.3	539.6	324.9	586.3
Biological aspects	90.7	92.1	113.6	124.1	119.7	127.1	131.9	146.9	151.8	156.8	37.7	39.6
Social aspects	149.3	152.6	151.5	194.4	190.7	199.8	187.1	180.8	206.3	220.9	110.0	143.4
Psychological sciences, NEC	92.4	106.4	109.8	126.7	133.4	150.9	169.3	180.8	163.3	162.0	177.2	403.2
Physical sciences, total	3,804.6	4,214.3	4,173.5	4,144.8	4,078.0	4,206.1	4,153.9	4,467.9	4,426.1	4,737.5	4,838.9	4,713.1
Astronomy	419.7	520.9	537.4	564.3	622.1	675.3	589.5	653.4	694.0	706.6	805.6	730.7
Chemistry	732.2	758.3	852.4	885.0	880.1	879.7	880.4	943.7	885.2	926.6	976.9	897.7
Physics	2,450.5	2,703.1	2,581.4	2,471.1	2,399.5	2,397.0	2,473.5	2,641.7	2,620.5	2,752.7	2,810.3	2,808.9
Physical sciences, NEC	202.2	232.0	202.3	224.2	176.2	254.2	210.5	229.0	226.6	351.6	246.0	276.0
Environmental sciences, total	1,747.3	1,823.6	1,793.5	1,910.1	1,968.8	1,954.7	2,012.3	2,138.2	2,526.6	2,404.7	2,406.4	2,777.1
Atmospheric sciences	647.9	671.5	610.2	661.3	692.7	715.0	736.0	709.0	898.8	897.9	836.4	1,047.7
Geological sciences	544.1	486.1	504.6	583.8	589.8	571.2	553.0	654.5	768.3	815.1	801.9	849.5
Oceanography	397.6	500.7	511.0	542.3	571.0	552.7	576.5	593.2	604.4	445.9	500.2	497.6
Environmental sciences, NEC	157.6	165.4	167.7	122.7	115.3	115.7	146.6	181.5	255.1	245.9	267.9	382.4
Mathematics and computer sciences, total	532.7	611.3	618.9	782.3	817.7	828.4	805.0	886.8	977.0	1,010.9	1,264.8	1,304.6
Mathematics	194.9	194.6	212.3	249.8	245.2	264.5	272.9	284.7	280.4	254.6	347.4	309.6
Computer sciences	260.0	312.8	301.5	381.4	401.8	385.1	366.5	439.6	653.2	654.3	841.3	879.5
Mathematics and computer sciences, NEC	77.6	104.1	105.1	151.0	170.7	178.8	165.7	162.5	43.3	101.9	76.2	115.5
Engineering, total	5,152.9	5,126.1	5,094.3	4,922.6	4,968.0	5,051.5	4,954.2	5,356.6	4,911.8	5,530.8	5,425.1	5,854.8
Aeronautical	1,127.8	1,196.0	1,209.4	1,004.2	1,030.6	1,048.0	1,004.0	1,189.9	1,077.4	1,136.7	953.3	1,270.1
Astronautical	442.3	468.6	557.8	577.9	700.1	807.7	720.5	816.8	675.0	730.5	687.2	525.9
Chemical	144.7	211.3	203.1	346.0	326.6	279.1	323.2	171.5	281.1	340.4	324.3	261.4
Civil	307.2	274.7	285.1	294.7	269.6	264.3	269.1	277.1	369.2	341.2	359.9	268.3
Electrical	931.5	896.2	885.6	852.9	896.1	1,016.8	915.5	1,016.6	743.8	816.4	827.3	938.5
Mechanical	306.1	388.3	267.8	363.3	314.2	302.0	301.5	310.4	311.8	375.3	367.6	497.1
Metallurgy and materials	470.3	484.6	479.5	597.6	591.3	468.1	571.9	628.2	644.4	795.0	792.7	740.7
Engineering, NEC	1,422.9	1,206.2	1,206.1	885.8	839.4	865.5	848.7	946.0	809.2	995.3	1,112.7	1,353.0
Social sciences, total	587.2	634.5	613.3	625.9	552.1	620.7	608.3	664.4	732.1	813.5	751.8	718.5
Anthropology	22.2	18.7	26.1	24.5	18.1	19.7	17.9	16.8	16.7	17.9	15.4	14.6
Economics	239.0	241.4	207.1	217.3	174.5	192.0	199.7	201.1	229.2	209.6	230.7	217.9
Political science	11.4	16.2	15.2	19.9	15.4	14.6	15.3	16.3	15.2	19.0	24.6	31.1
Sociology	79.1	98.8	98.7	90.5	89.0	95.7	102.4	113.5	135.0	205.8	88.0	81.7
Social sciences, NEC	235.4	259.4	266.4	273.9	255.1	298.7	273.0	316.9	336.0	361.2	393.3	373.2
Other sciences, NEC	436.7	467.0	464.6	464.8	509.3	566.8	659.3	773.7	771.3	1,010.5	881.1	1,205.7

Federal obligations for total research, by detailed S&E field: FY 1982–2003

Field	1994	1995	1996	1997	1998	1999	2000	2001	2002 (preliminary)	2003 (preliminary)	Average growth rate	
											1982–2003	1982–2001
Millions of constant 1996 dollars											Percent	
All fields	28,565.2	29,002.9	28,259.8	28,803.6	29,908.4	31,979.3	36,001.6	40,844.9	45,161.2	47,782.1	4.3	3.9
Life sciences, total	11,759.4	12,047.1	12,064.3	12,419.1	13,113.1	14,710.3	16,811.7	21,062.3	23,454.6	25,667.4	6.2	5.8
Biology and agricultural, total	6,359.9	6,530.5	6,629.9	6,418.8	6,841.9	7,676.1	11,580.8	12,895.0	NA	NA	NA	6.0
Biology (excluding environmental)	4,945.6	5,023.9	5,309.9	5,218.4	5,519.5	6,178.5	10,050.7	11,308.8	NA	NA	NA	6.9
Environmental biology	656.4	823.0	704.0	571.4	584.7	687.3	692.5	665.7	NA	NA	NA	4.7
Agricultural	757.8	683.7	616.0	629.0	737.8	810.2	837.6	920.5	NA	NA	NA	0.5
Medical sciences, total	5,066.8	5,071.6	4,973.4	5,426.9	5,799.7	6,487.1	4,177.3	6,015.4	NA	NA	NA	4.3
Life sciences, NEC	332.7	445.0	461.1	573.4	471.4	547.1	1,053.6	2,151.9	NA	NA	NA	12.1
Psychology, total	571.5	635.0	525.0	535.0	571.6	603.4	1,522.3	677.7	760.4	855.1	4.6	3.8
Biological aspects	50.1	60.0	62.8	56.7	40.2	17.2	7.7	12.4	NA	NA	NA	9.9
Social aspects	121.7	159.4	83.4	94.9	94.3	63.5	52.4	54.6	NA	NA	NA	-5.2
Psychological sciences, NEC	399.5	415.6	378.8	383.4	437.1	522.6	1,462.2	610.7	NA	NA	NA	10.5
Physical sciences, total	4,432.6	4,363.8	3,923.0	4,069.8	4,071.7	3,878.4	4,480.7	4,202.7	4,665.1	4,655.3	1.0	0.5
Astronomy	779.1	779.8	729.0	759.9	708.2	722.9	823.8	693.5	NA	NA	NA	2.7
Chemistry	911.2	880.8	881.1	829.6	792.1	777.3	1,146.9	936.2	NA	NA	NA	1.3
Physics	2,546.0	2,500.2	1,991.3	2,028.1	2,061.9	2,119.3	2,251.0	2,248.7	NA	NA	NA	-0.5
Physical sciences, NEC	196.2	203.2	321.6	452.2	509.4	258.9	258.9	324.2	NA	NA	NA	2.5
Environmental sciences, total	2,957.7	2,911.5	3,019.7	2,987.4	2,961.6	2,952.4	3,115.2	2,970.3	3,325.3	3,472.2	3.3	2.8
Atmospheric sciences	1,141.1	1,158.3	1,085.7	1,142.0	1,135.9	1,122.2	1,033.4	1,017.2	NA	NA	NA	2.4
Geological sciences	873.3	865.3	784.3	678.6	583.5	629.7	598.2	615.5	NA	NA	NA	0.7
Oceanography	517.7	415.4	574.3	586.3	541.4	626.3	629.8	622.2	NA	NA	NA	2.4
Environmental sciences, NEC	425.7	472.6	575.4	580.5	700.6	574.2	853.7	715.5	NA	NA	NA	8.3
Mathematics and computer sciences, total	1,356.4	1,610.7	1,571.6	1,639.8	1,776.6	1,889.1	2,064.0	2,384.7	2,494.6	2,565.7	7.8	8.2
Mathematics	356.7	263.8	254.5	295.8	323.1	329.4	405.1	362.1	NA	NA	NA	3.3
Computer sciences	865.2	1,034.2	1,119.8	1,240.5	1,352.8	1,446.1	1,553.1	1,847.8	NA	NA	NA	10.9
Mathematics and computer sciences, NEC	134.5	312.7	197.3	103.5	100.6	113.7	105.8	174.8	NA	NA	NA	4.4
Engineering, total	5,710.1	5,822.5	5,680.9	5,581.5	5,702.1	5,974.2	5,939.1	7,487.8	8,116.2	8,200.4	2.2	2.0
Aeronautical	1,274.2	1,273.3	1,249.4	1,326.8	1,544.1	1,535.4	1,369.9	2,219.8	NA	NA	NA	3.6
Astronautical	520.1	557.4	526.6	584.9	610.4	591.9	481.9	687.6	NA	NA	NA	2.3
Chemical	248.2	251.0	215.1	230.5	183.9	193.8	183.9	181.8	NA	NA	NA	1.2
Civil	289.6	346.2	300.2	270.3	236.1	313.3	223.8	263.4	NA	NA	NA	-0.8
Electrical	773.0	771.4	669.7	610.3	618.3	666.4	697.0	812.7	NA	NA	NA	-0.7
Mechanical	394.0	420.7	294.0	249.7	241.4	229.3	270.7	291.6	NA	NA	NA	-0.3
Metallurgy and materials	887.2	831.6	989.0	844.2	763.2	751.6	859.2	987.3	NA	NA	NA	4.0
Engineering, NEC	1,323.7	1,370.9	1,437.0	1,464.6	1,504.6	1,692.4	1,852.6	2,043.4	NA	NA	NA	1.9
Social sciences, total	674.7	692.3	654.6	683.0	779.7	815.4	983.0	921.3	931.4	940.2	2.3	2.4
Anthropology	16.9	22.1	18.3	20.6	17.6	17.5	14.9	14.3	NA	NA	NA	-2.3
Economics	201.4	210.6	194.2	201.3	222.9	206.6	233.5	213.8	NA	NA	NA	-0.6
Political science	26.5	22.7	16.7	13.8	19.5	19.3	21.1	17.8	NA	NA	NA	2.4
Sociology	71.0	48.8	41.2	25.4	97.5	79.9	84.8	87.2	NA	NA	NA	0.5
Social sciences, NEC	358.9	387.9	384.2	422.0	422.1	492.2	628.7	588.3	NA	NA	NA	4.9
Other sciences, NEC	1,103.0	919.8	820.7	888.0	932.1	1,156.1	1,085.7	1,138.0	1,413.7	1,425.7	5.8	5.2

NA not available

NEC not elsewhere classified

NOTE: Details may not add to totals because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Statistics, *Federal Funds for Research and Development: Fiscal Years 2001, 2002, and 2003* (Arlington, VA, forthcoming).