

TABLE 133. Federal obligations for research, by detailed field of science and engineering: FYs 1994–2004

(Dollars in millions)

Field	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7	51,071.8	53,357.8
Computer sciences and mathematics	1,301.6	1,579.1	1,571.6	1,671.8	1,836.8	1,980.6	2,205.6	2,610.6	2,630.7	2,672.5	2,949.4
Computer sciences	830.2	1,013.9	1,119.8	1,264.7	1,398.7	1,516.1	1,659.6	2,022.8	2,043.2	2,052.8	2,144.9
Mathematics	342.3	258.6	254.5	301.6	334.1	345.3	432.9	396.4	402.0	452.9	617.8
Other computer sciences and mathematics	129.1	306.6	197.3	105.5	104.0	119.2	113.1	191.4	185.5	166.7	186.7
Engineering	5,479.4	5,708.4	5,680.9	5,690.3	5,895.4	6,263.4	6,346.4	8,197.0	8,274.9	8,405.1	8,866.4
Aeronautical engineering	1,222.7	1,248.3	1,249.4	1,352.7	1,596.4	1,609.7	1,463.9	2,430.1	2,157.1	1,732.2	1,640.8
Astronautical engineering	499.1	546.5	526.6	596.3	631.1	620.6	515.0	752.7	760.8	702.5	664.9
Chemical engineering	238.2	246.1	215.1	235.0	190.1	203.2	196.5	199.0	201.6	327.9	318.8
Civil engineering	277.9	339.4	300.2	275.6	244.1	328.5	239.2	288.4	302.7	339.6	330.3
Electrical engineering	741.8	756.3	669.7	622.2	639.3	698.7	744.8	889.7	808.7	950.0	890.9
Mechanical engineering	378.1	412.5	294.0	254.6	249.6	240.4	289.3	319.2	265.9	298.4	301.9
Metallurgy and materials engineering	851.4	815.3	989.0	860.7	789.1	788.0	918.1	1,080.8	1,000.5	1,083.7	1,037.2
Other engineering	1,270.2	1,344.0	1,437.0	1,493.2	1,555.6	1,774.3	1,979.6	2,237.0	2,777.6	2,970.8	3,681.6
Environmental sciences	2,838.2	2,854.4	3,019.7	3,045.7	3,062.0	3,095.3	3,328.8	3,251.7	3,418.3	3,740.9	3,741.6
Atmospheric sciences	1,095.0	1,135.6	1,085.7	1,164.3	1,174.4	1,176.5	1,104.3	1,113.6	1,163.5	1,259.4	1,259.7
Geological sciences	838.0	848.3	784.3	691.8	603.3	660.2	639.2	673.8	674.9	725.0	704.5
Oceanography	496.8	407.3	574.3	597.7	559.8	656.6	673.0	681.1	784.6	846.1	809.1
Other environmental sciences	408.5	463.3	575.4	591.8	724.4	602.0	912.2	783.3	795.2	910.3	968.4
Life sciences	11,284.3	11,811.0	12,064.3	12,661.3	13,557.6	15,422.5	17,964.7	23,057.3	25,476.8	27,772.2	27,728.5
Agricultural sciences	727.2	670.3	616.0	641.3	762.8	849.4	895.0	1,007.7	1,047.6	1,046.0	1,086.8
Biological sciences (excluding environmental biology)	4,745.8	4,925.4	5,309.9	5,320.2	5,706.6	6,477.6	10,740.0	12,380.0	14,498.5	18,643.5	13,091.9
Environmental biology	629.9	806.9	704.0	582.5	604.5	720.6	740.0	728.8	778.9	717.9	670.0
Medical sciences	4,862.1	4,972.2	4,973.4	5,532.7	5,996.3	6,801.2	4,463.8	6,585.2	6,427.4	6,160.3	10,898.8
Other life sciences	319.3	436.3	461.1	584.6	487.4	573.6	1,125.9	2,355.7	2,724.4	1,204.6	1,981.0
Physical sciences	4,253.5	4,278.3	3,923.0	4,149.2	4,209.7	4,066.2	4,788.0	4,600.8	4,983.2	5,021.6	5,211.1
Astronomy	747.6	764.5	729.0	774.7	732.2	757.9	880.3	759.2	751.5	871.8	920.8
Chemistry	874.4	863.5	881.1	845.8	819.0	814.9	1,225.6	1,024.9	1,181.7	1,137.9	1,191.0
Physics	2,443.1	2,451.2	1,991.3	2,067.6	2,131.8	2,221.9	2,405.4	2,461.7	2,621.4	2,500.2	2,598.6
Other physical sciences	188.3	199.2	321.6	461.0	526.7	271.4	276.7	354.9	428.6	511.7	500.8
Psychology	548.4	622.6	525.0	545.4	591.0	632.6	1,626.7	741.9	905.9	1,104.4	1,854.9
Biological aspects	48.1	58.8	62.8	57.8	41.6	18.0	8.2	13.6	10.6	23.2	6.0
Social aspects	116.8	156.3	83.4	96.7	97.5	66.6	56.0	59.8	52.5	50.6	51.7
Other psychological sciences	383.4	407.5	378.8	390.9	451.9	547.9	1,562.5	668.5	842.8	1,030.6	1,797.2
Social sciences	647.4	678.7	654.6	696.3	806.1	854.9	1,050.4	1,008.6	983.0	1,025.8	1,089.6
Anthropology	16.2	21.7	18.3	21.0	18.2	18.3	15.9	15.6	16.4	14.5	15.0
Economics	193.3	206.5	194.2	205.2	230.5	216.6	249.5	234.1	227.3	234.5	204.6
Political science	25.4	22.3	16.7	14.1	20.2	20.2	22.6	19.5	18.4	18.5	18.7

TABLE 133. Federal obligations for research, by detailed field of science and engineering: FYs 1994–2004

(Dollars in millions)

Field	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Sociology	68.1	47.8	41.2	25.9	100.8	83.8	90.6	95.5	96.1	124.7	120.1
Other social sciences	344.4	380.3	384.2	430.2	436.4	516.0	671.8	644.0	624.7	633.6	731.2
Other sciences nec	1,058.4	901.8	820.7	905.3	963.7	1,212.1	1,160.2	1,245.8	1,334.0	1,329.3	1,916.3

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. The National Science Foundation made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering). In FY 2000, the National Aeronautics and Space Administration reclassified the International Space Station (ISS) as a physical asset, reclassified ISS Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research.

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