

TABLE 137. Federal obligations for applied 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	13,887.7	14,557.4	13,795.7	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4	26,320.4	27,237.1
Computer sciences and mathematics	779.9	976.1	932.0	1,010.5	1,131.4	1,245.7	1,407.3	1,652.8	1,632.0	1,552.2	1,710.3
Computer sciences	567.9	696.8	743.1	875.1	979.6	1,077.8	1,196.6	1,437.2	1,406.3	1,322.3	1,432.7
Mathematics	94.7	94.6	91.8	63.4	83.3	91.3	124.3	108.0	76.4	93.2	138.7
Other computer sciences and mathematics	117.3	184.7	97.1	71.9	68.4	76.6	86.5	107.6	149.3	136.7	138.9
Engineering	4,189.0	4,259.5	4,068.9	4,107.3	4,301.0	4,623.7	4,582.2	6,285.5	6,410.0	6,492.0	6,594.7
Aeronautical engineering	946.8	977.2	987.6	1,083.7	1,311.2	1,278.0	1,141.1	2,060.3	1,827.0	1,476.5	1,336.6
Astronautical engineering	439.3	480.2	454.7	526.5	563.2	554.4	426.3	718.9	692.6	643.0	597.8
Chemical engineering	167.3	179.4	155.4	166.9	137.9	148.0	143.9	138.9	139.2	256.4	250.2
Civil engineering	239.8	269.3	247.3	230.2	208.3	259.7	179.5	240.5	256.1	288.5	274.7
Electrical engineering	536.1	551.7	468.3	449.3	425.4	513.1	567.7	642.8	595.6	723.7	691.3
Mechanical engineering	236.5	247.8	180.8	149.7	142.9	140.8	195.9	190.4	176.7	202.2	212.3
Metallurgy and materials engineering	521.2	446.9	487.2	398.1	310.9	306.9	400.3	489.7	492.8	502.7	445.2
Other engineering	1,102.0	1,107.1	1,087.6	1,102.8	1,201.3	1,422.9	1,527.4	1,803.9	2,229.9	2,399.1	2,786.6
Environmental sciences	1,321.7	1,387.0	1,465.7	1,502.2	1,533.2	1,479.5	1,490.3	1,588.6	1,585.0	1,841.4	1,718.7
Atmospheric sciences	396.7	447.3	414.6	484.8	519.2	505.5	387.3	516.4	479.4	591.3	532.9
Geological sciences	350.1	396.6	394.3	303.5	212.1	248.1	209.6	273.2	248.9	263.1	222.5
Oceanography	306.6	219.1	265.2	294.2	273.8	272.7	308.1	278.7	357.6	403.9	356.5
Other environmental sciences	268.3	324.0	391.7	419.7	528.1	453.3	585.3	520.4	499.1	583.0	606.9
Life sciences	4,812.2	5,209.8	5,185.3	5,457.6	5,704.2	6,225.3	7,915.7	10,221.8	11,452.7	13,007.0	13,238.5
Agricultural sciences	356.7	302.8	286.5	293.2	390.3	424.9	449.2	496.0	517.1	517.7	583.1
Biological sciences (excluding environmental biology)	1,606.6	1,677.1	1,922.8	1,929.2	2,053.6	2,240.7	3,888.9	4,427.7	6,118.8	8,172.0	5,869.1
Environmental biology	387.8	586.2	498.3	376.4	407.6	440.4	426.4	419.0	444.4	393.8	340.8
Medical sciences	2,251.8	2,356.3	2,232.6	2,497.6	2,603.9	2,844.7	2,540.0	3,776.6	3,066.4	3,241.2	5,421.5
Other life sciences	209.3	287.4	245.2	361.1	248.8	274.6	611.2	1,102.6	1,306.0	682.3	1,023.9
Physical sciences	1,426.5	1,413.5	1,060.4	1,172.8	1,268.3	976.4	1,317.3	1,273.6	1,577.4	1,567.6	1,548.6
Astronomy	22.8	32.9	20.2	20.6	25.2	39.4	86.3	109.0	148.2	175.8	155.4
Chemistry	334.2	304.1	330.4	327.9	301.5	260.3	459.8	288.1	432.9	389.3	415.0
Physics	940.9	943.8	445.7	505.9	552.0	528.1	641.0	699.5	759.6	679.6	694.0
Other physical sciences	128.7	132.7	264.2	318.4	389.6	148.5	130.3	177.0	236.6	322.9	284.1
Psychology	302.2	344.6	233.5	251.5	279.0	285.3	808.9	449.0	441.3	560.6	875.6
Biological aspects	23.3	27.4	29.3	27.6	14.3	5.8	2.5	3.2	2.8	12.7	5.0
Social aspects	100.5	134.1	73.4	83.7	84.6	56.7	41.7	54.3	47.7	46.5	46.6
Other psychological sciences	178.4	183.1	130.8	140.2	180.1	222.8	764.7	391.5	390.8	501.5	824.0
Social sciences	463.3	472.0	442.1	475.3	581.3	608.3	742.4	730.2	621.3	673.0	670.3
Anthropology	6.6	6.6	5.6	6.2	4.7	4.9	1.9	1.5	1.2	1.8	2.1
Economics	154.9	161.8	154.8	159.1	188.9	171.2	197.7	191.5	182.1	186.2	156.7
Political science	20.6	15.2	10.9	9.2	15.6	15.4	17.5	13.6	12.7	12.5	12.0

TABLE 137. Federal obligations for applied 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	55.0	33.5	27.9	17.7	77.4	74.7	78.8	77.6	76.6	76.0	71.5
Other social sciences	226.2	254.9	242.8	283.2	294.8	342.1	446.5	446.0	348.7	396.5	428.0
Other sciences nec	592.8	494.9	407.9	446.3	510.9	639.6	636.6	554.1	618.8	626.6	880.5

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. In FY 2003, the 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.

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