

TABLE 135. Federal obligations for basic 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	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3	24,751.4	26,120.7
Computer sciences and mathematics	521.7	603.0	639.6	661.4	705.5	734.9	798.3	957.8	998.7	1,120.2	1,239.1
Computer sciences	262.3	317.1	376.8	389.5	419.1	438.3	463.0	585.6	636.9	730.5	712.2
Mathematics	247.7	164.0	162.6	238.2	250.7	254.0	308.6	288.4	325.6	359.8	479.1
Other computer sciences and mathematics	11.8	121.9	100.2	33.6	35.6	42.6	26.6	83.9	36.2	30.0	47.9
Engineering	1,290.4	1,448.9	1,612.1	1,583.0	1,594.4	1,639.7	1,764.2	1,911.5	1,864.9	1,913.1	2,271.7
Aeronautical engineering	275.9	271.0	261.7	269.1	285.2	331.7	322.8	369.7	330.1	255.8	304.2
Astronautical engineering	59.8	66.3	71.8	69.8	68.0	66.2	88.7	33.9	68.1	59.5	67.1
Chemical engineering	70.9	66.7	59.8	68.1	52.3	55.2	52.6	60.2	62.3	71.5	68.6
Civil engineering	38.1	70.1	52.9	45.4	35.9	68.8	59.7	47.9	46.5	51.1	55.6
Electrical engineering	205.7	204.6	201.5	172.9	213.9	185.6	177.0	246.9	213.0	226.3	199.6
Mechanical engineering	141.6	164.7	113.2	104.9	106.7	99.6	93.4	128.8	89.2	96.3	89.6
Metallurgy and materials engineering	330.2	368.5	501.8	462.6	478.2	481.2	517.8	591.1	507.8	581.0	592.0
Other engineering	168.3	236.9	349.4	390.4	354.3	351.4	452.2	433.1	547.8	571.7	895.0
Environmental sciences	1,516.5	1,467.5	1,554.0	1,543.5	1,528.7	1,615.7	1,838.4	1,663.0	1,833.3	1,899.5	2,022.9
Atmospheric sciences	698.3	688.2	671.2	679.5	655.2	671.0	717.0	597.2	684.1	668.1	726.8
Geological sciences	487.8	451.7	390.0	388.3	391.2	412.1	429.6	400.6	426.0	461.9	482.0
Oceanography	190.2	188.2	309.1	303.5	286.0	383.9	364.9	402.4	427.0	442.2	452.6
Other environmental sciences	140.2	139.3	183.8	172.1	196.4	148.7	326.9	262.9	296.1	327.3	361.5
Life sciences	6,472.1	6,601.3	6,879.0	7,203.8	7,853.4	9,197.1	10,049.0	12,835.5	14,024.1	14,765.3	14,490.0
Agricultural sciences	370.6	367.5	329.5	348.1	372.5	424.5	445.7	511.7	530.6	528.3	503.7
Biological sciences (excluding environmental biology)	3,139.2	3,248.3	3,387.2	3,391.0	3,653.0	4,236.9	6,851.1	7,952.3	8,379.7	10,471.5	7,222.8
Environmental biology	242.1	220.6	205.7	206.1	196.8	280.2	313.6	309.8	334.5	324.0	329.1
Medical sciences	2,610.3	2,615.9	2,740.8	3,035.2	3,392.4	3,956.5	1,923.8	2,808.6	3,361.0	2,919.1	5,477.2
Other life sciences	109.9	148.9	215.9	223.4	238.6	299.1	514.7	1,253.1	1,418.3	522.3	957.1
Physical sciences	2,826.9	2,864.8	2,862.6	2,976.4	2,941.4	3,089.8	3,470.6	3,327.1	3,405.9	3,454.0	3,662.6
Astronomy	724.8	731.6	708.8	754.2	706.9	718.4	794.0	650.2	603.3	696.0	765.4
Chemistry	540.3	559.4	550.7	517.8	517.5	554.6	765.8	736.8	748.8	748.6	776.0
Physics	1,502.3	1,507.4	1,545.6	1,561.7	1,579.8	1,693.8	1,764.4	1,762.3	1,861.7	1,820.6	1,904.5
Other physical sciences	59.6	66.4	57.4	142.6	137.1	122.9	146.4	177.9	192.0	188.8	216.7
Psychology	246.1	278.0	291.5	293.9	312.0	347.3	817.8	292.9	464.6	543.8	979.2
Biological aspects	24.8	31.4	33.5	30.2	27.3	12.2	5.7	10.4	7.8	10.6	0.9
Social aspects	16.3	22.2	10.1	13.0	12.9	9.9	14.3	5.5	4.8	4.1	5.0
Other psychological sciences	205.0	224.4	248.0	250.7	271.8	325.1	797.8	277.0	452.0	529.2	973.2
Social sciences	184.0	206.7	212.5	221.0	224.8	246.5	308.0	278.4	361.7	352.8	419.3
Anthropology	9.7	15.1	12.7	14.8	13.5	13.4	14.0	14.1	15.2	12.7	12.9
Economics	38.4	44.7	39.4	46.1	41.5	45.3	51.8	42.5	45.3	48.2	48.0
Political science	4.8	7.1	5.7	4.9	4.6	4.8	5.1	5.9	5.7	6.0	6.7

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(Dollars in millions)

Field	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Sociology	13.1	14.3	13.3	8.2	23.5	9.2	11.8	17.9	19.5	48.7	48.6
Other social sciences	118.1	125.5	141.3	147.0	141.7	173.9	225.4	198.0	276.0	237.1	303.1
Other sciences nec	465.6	406.9	412.8	459.0	452.7	572.5	523.6	691.7	715.2	702.7	1,035.9

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.