

TABLE 115. Federal obligations for research, by detailed field of science and engineering: FYs 1991–2001

(Dollars in millions)

Field	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All fields	23,968.4	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7
Environmental sciences	2,149.8	2,207.6	2,608.5	2,838.2	2,854.4	3,019.7	3,045.7	3,062.0	3,095.3	3,328.8	3,251.7
Atmospheric sciences	802.7	767.3	984.1	1,095.0	1,135.6	1,085.7	1,164.3	1,174.4	1,176.5	1,104.3	1,113.6
Geological sciences	728.7	735.7	797.9	838.0	848.3	784.3	691.8	603.3	660.2	639.2	673.8
Oceanography	398.6	458.9	467.4	496.8	407.3	574.3	597.7	559.8	656.6	673.0	681.1
Environmental sciences, nec	219.8	245.8	359.2	408.5	463.3	575.4	591.8	724.4	602.0	912.2	783.3
Life sciences	9,622.0	9,910.5	10,772.1	11,284.3	11,811.0	12,064.3	12,661.3	13,557.6	15,422.5	17,964.7	23,057.3
Biological and agricultural sciences	5,597.9	5,633.6	6,059.3	6,103.0	6,402.5	6,629.9	6,544.0	7,073.8	8,047.7	12,375.0	14,116.4
Agricultural sciences	680.3	687.5	712.9	727.2	670.3	616.0	641.3	762.8	849.4	895.0	1,007.7
Biological sciences (excluding environmental biology)	4,457.8	4,435.1	4,789.9	4,745.8	4,925.4	5,309.9	5,320.2	5,706.6	6,477.6	10,740.0	12,380.0
Environmental biology	459.7	511.0	556.5	629.9	806.9	704.0	582.5	604.5	720.6	740.0	728.8
Medical sciences	3,460.3	3,909.9	4,404.4	4,862.1	4,972.2	4,973.4	5,532.7	5,996.3	6,801.2	4,463.8	6,585.2
Life sciences, nec	563.8	367.0	308.3	319.3	436.3	461.1	584.6	487.4	573.6	1,125.9	2,355.7
Mathematics and computer sciences	903.7	1,160.3	1,225.4	1,301.6	1,579.1	1,571.6	1,671.8	1,836.8	1,980.6	2,205.6	2,610.6
Computer sciences	584.9	771.8	826.1	830.2	1,013.9	1,119.8	1,264.7	1,398.7	1,516.1	1,659.6	2,022.8
Mathematics	227.6	318.7	290.8	342.3	258.6	254.5	301.6	334.1	345.3	432.9	396.4
Mathematics and computer sciences, nec	91.1	69.9	108.5	129.1	306.6	197.3	105.5	104.0	119.2	113.1	191.4
Physical sciences	4,235.3	4,439.2	4,427.0	4,253.5	4,278.3	3,923.0	4,149.2	4,209.7	4,066.2	4,788.0	4,600.8
Astronomy	631.7	739.1	686.3	747.6	764.5	729.0	774.7	732.2	757.9	880.3	759.2
Chemistry	828.4	896.2	843.2	874.4	863.5	881.1	845.8	819.0	814.9	1,225.6	1,024.9
Physics	2,460.9	2,578.2	2,638.4	2,443.1	2,451.2	1,991.3	2,067.6	2,131.8	2,221.9	2,405.4	2,461.7
Physical sciences, nec	314.3	225.7	259.2	188.3	199.2	321.6	461.0	526.7	271.4	276.7	354.9
Psychology	482.4	298.1	550.7	548.4	622.6	525.0	545.4	591.0	632.6	1,626.7	741.9
Biological aspects	140.2	34.6	37.2	48.1	58.8	62.8	57.8	41.6	18.0	8.2	13.6
Social aspects	197.5	100.9	134.7	116.8	156.3	83.4	96.7	97.5	66.6	56.0	59.8
Psychological sciences, nec	144.8	162.6	378.7	383.4	407.5	378.8	390.9	451.9	547.9	1,562.5	668.5
Social sciences	727.3	689.7	674.9	647.4	678.7	654.6	696.3	806.1	854.9	1,050.4	1,008.6
Anthropology	16.0	14.1	13.7	16.2	21.7	18.3	21.0	18.2	18.3	15.9	15.6
Economics	187.4	211.6	204.7	193.3	206.5	194.2	205.2	230.5	216.6	249.5	234.1
Political science	17.0	22.6	29.2	25.4	22.3	16.7	14.1	20.2	20.2	22.6	19.5
Sociology	184.0	80.7	76.7	68.1	47.8	41.2	25.9	100.8	83.8	90.6	95.5
Social sciences, nec	322.9	360.8	350.5	344.4	380.3	384.2	430.2	436.4	516.0	671.8	644.0
Other sciences, nec	903.4	808.3	1,132.5	1,058.4	901.8	820.7	905.3	963.7	1,212.1	1,160.2	1,245.8
Engineering	4,944.5	4,977.0	5,499.4	5,479.4	5,708.4	5,680.9	5,690.3	5,895.4	6,263.4	6,346.4	8,197.0
Aeronautical engineering	1,016.2	874.6	1,193.0	1,222.7	1,248.3	1,249.4	1,352.7	1,596.4	1,609.7	1,463.9	2,430.1
Astronautical engineering	653.1	630.4	494.0	499.1	546.5	526.6	596.3	631.1	620.6	515.0	752.7
Chemical engineering	304.3	297.5	245.5	238.2	246.1	215.1	235.0	190.1	203.2	196.5	199.0
Civil engineering	305.0	330.2	252.0	277.9	339.4	300.2	275.6	244.1	328.5	239.2	288.4
Electrical engineering	729.9	759.0	881.5	741.8	756.3	669.7	622.2	639.3	698.7	744.8	889.7

TABLE 115. Federal obligations for research, by detailed field of science and engineering: FYs 1991–2001

(Dollars in millions)

Field	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Mechanical engineering	335.5	337.2	466.9	378.1	412.5	294.0	254.6	249.6	240.4	289.3	319.2
Metallurgy and materials engineering	710.7	727.2	695.7	851.4	815.3	989.0	860.7	789.1	788.0	918.1	1,080.8
Engineering, nec	889.8	1,020.8	1,270.9	1,270.2	1,344.0	1,437.0	1,493.2	1,555.6	1,774.3	1,979.6	2,237.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Due to reorganization within Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions have been reported with National Institutes of Health data since FY 1992. However research support for some fields (e.g., psychology) in FY 1992 seems to be underreported. National Science Foundation made changes to its field of science and engineering coding system, producing changes to some FY 1996 engineering field data e.g., mechanical engineering). In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; 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.