

TABLE 124

Federal obligations for basic research, by detailed field of science and engineering: FYs 2001–11

(Dollars in millions)

Field	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
All fields	21,958.1	23,668.3	24,751.4	26,120.7	27,140.3	26,584.6	26,865.8	27,154.0	32,879.4	31,795.3	29,313.6
Computer sciences and mathematics	957.8	998.7	1,120.2	1,239.1	1,228.4	1,208.2	1,293.5	1,407.4	1,861.4	1,663.2	1,788.5
Computer sciences	585.6	636.9	730.5	712.2	658.1	670.9	708.3	733.8	978.1	873.6	936.4
Mathematics	288.4	325.6	359.8	479.1	542.5	518.6	561.0	645.0	804.3	716.6	741.3
Other computer sciences and mathematics	83.9	36.2	30.0	47.9	27.8	18.7	24.2	28.6	79.0	73.0	110.7
Engineering	1,911.5	1,864.9	1,913.1	2,271.7	2,300.5	2,364.6	2,629.9	2,736.0	3,406.2	3,491.1	3,168.0
Aeronautical engineering	369.7	330.1	255.8	304.2	317.7	242.7	195.1	149.5	185.3	151.3	153.2
Astronautical engineering	33.9	68.1	59.5	67.1	72.9	57.8	43.8	32.0	35.3	31.6	32.9
Chemical engineering	60.2	62.3	71.5	68.6	66.8	67.6	109.0	111.6	167.6	142.7	182.7
Civil engineering	47.9	46.5	51.1	55.6	62.2	67.4	123.6	126.2	185.5	155.2	149.2
Electrical engineering	246.9	213.0	226.3	199.6	212.6	205.1	246.4	221.4	297.4	295.0	281.0
Mechanical engineering	128.8	89.2	96.3	89.6	76.7	70.5	77.6	65.8	84.3	80.3	82.3
Metallurgy and materials engineering	591.1	507.8	581.0	592.0	665.9	811.4	959.9	993.2	1,112.6	1,091.4	1,077.2
Other engineering	433.1	547.8	571.7	895.0	825.7	842.1	874.5	1,036.2	1,338.3	1,543.7	1,209.5
Environmental sciences	1,663.0	1,833.3	1,899.5	2,022.9	1,966.1	1,849.5	1,727.8	1,593.1	2,142.9	1,787.4	1,796.4
Atmospheric sciences	597.2	684.1	668.1	726.8	743.6	666.3	583.6	523.2	650.5	596.9	612.5
Geological sciences	400.6	426.0	461.9	482.0	470.3	444.6	426.8	303.0	429.7	332.6	396.4
Oceanography	402.4	427.0	442.2	452.6	431.1	416.5	436.9	433.6	549.2	471.6	483.0
Other environmental sciences	262.9	296.1	327.3	361.5	321.1	322.2	280.5	333.3	513.5	386.3	304.5
Life sciences	12,835.5	14,024.1	14,765.3	14,490.0	15,247.6	14,934.4	15,643.5	15,557.4	17,587.2	17,748.3	15,373.4
Agricultural sciences	511.7	530.6	528.3	503.7	511.2	514.3	532.9	494.7	531.4	571.4	547.0
Biological sciences (excluding environmental biology)	7,952.3	8,379.7	10,471.5	7,222.8	7,608.0	7,699.8	8,075.5	8,258.7	9,600.1	9,417.4	8,277.1
Environmental biology	309.8	334.5	324.0	329.1	339.0	344.3	350.8	368.2	466.6	435.4	434.6
Medical sciences	2,808.6	3,361.0	2,919.1	5,477.2	5,702.7	5,454.4	5,504.0	5,314.3	5,747.6	5,786.9	5,085.5
Other life sciences	1,253.1	1,418.3	522.3	957.1	1,086.7	921.7	1,180.2	1,121.5	1,241.5	1,537.1	1,029.2
Physical sciences	3,327.1	3,405.9	3,454.0	3,662.6	3,738.7	3,515.5	3,544.5	3,403.1	4,121.0	3,984.1	3,815.0
Astronomy	650.2	603.3	696.0	765.4	778.4	686.9	592.6	482.5	617.7	504.2	498.8
Chemistry	736.8	748.8	748.6	776.0	764.0	720.7	732.8	725.8	835.4	827.7	774.3
Physics	1,762.3	1,861.7	1,820.6	1,904.5	1,995.9	1,910.8	2,012.3	1,986.6	2,370.4	2,377.0	2,275.2
Other physical sciences	177.9	192.0	188.8	216.7	200.4	197.1	206.8	208.2	297.5	275.1	266.7
Psychology	292.9	464.6	543.8	979.2	1,040.1	944.9	978.8	936.0	1,100.5	1,129.2	978.8
Biological aspects	10.4	7.8	10.6	0.9	0.3	0.7	1.5	0.5	1.9	10.1	13.4
Social aspects	5.5	4.8	4.1	5.0	4.3	4.9	5.4	6.6	18.5	18.4	16.9
Other psychological sciences	277.0	452.0	529.2	973.2	1,035.5	939.3	972.0	928.9	1,080.0	1,100.8	948.5
Social sciences	278.4	361.7	352.8	419.3	391.4	381.0	361.3	330.0	432.2	358.9	371.0
Anthropology	14.1	15.2	12.7	12.9	15.2	14.1	15.3	15.2	27.7	24.3	25.8
Economics	42.5	45.3	48.2	48.0	51.3	46.3	52.3	43.7	52.0	44.4	54.5
Political science	5.9	5.7	6.0	6.7	10.5	11.0	8.5	16.5	13.0	9.6	9.3
Sociology	17.9	19.5	48.7	48.6	17.9	19.2	40.8	14.0	33.3	29.5	35.5
Other social sciences	198.0	276.0	237.1	303.1	296.5	290.3	244.3	240.6	306.1	251.1	245.9
Other sciences nec	691.7	715.2	702.7	1,035.9	1,227.5	1,386.5	686.4	1,190.9	2,227.9	1,633.0	2,022.6

nec = not elsewhere classified.

Note(s):

Because of rounding, detail may not add to total. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009.

Source(s):

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