

TABLE 41. Federal obligations for applied research, by detailed field of science and engineering: FYs 2010–12  
(Dollars in thousands)

Field	2010	Preliminary	
		2011	2012
All fields	31,932,631.1	29,105,931.9	30,047,539.8
Environmental sciences	1,551,492.2	1,416,259.0	1,390,625.2
Atmospheric sciences	356,902.5	NA	NA
Geological sciences	197,735.4	NA	NA
Oceanography	272,087.4	NA	NA
Environmental sciences, nec	724,766.9	NA	NA
Life sciences	16,160,835.3	14,531,027.7	14,611,963.9
Agricultural sciences	560,441.3	NA	NA
Biological sciences (excluding environmental biology)	7,796,456.8	NA	NA
Environmental biology	380,914.8	NA	NA
Medical sciences	5,890,127.2	NA	NA
Life sciences, nec	1,532,895.3	NA	NA
Mathematics and computer sciences	1,748,608.8	1,683,061.0	1,740,997.1
Computer sciences	1,488,358.9	NA	NA
Mathematics	118,874.4	NA	NA
Mathematics and computer sciences, nec	141,375.5	NA	NA
Physical sciences	1,886,676.1	1,799,923.0	1,818,794.1
Astronomy	55,668.6	NA	NA
Chemistry	482,902.8	NA	NA
Physics	1,093,042.6	NA	NA
Physical sciences, nec	255,062.1	NA	NA
Psychology	1,026,354.7	911,707.2	951,120.6
Biological aspects	3,540.7	NA	NA
Social aspects	56,181.5	NA	NA
Psychological sciences, nec	966,632.5	NA	NA
Social sciences	838,404.2	843,456.1	881,403.9
Anthropology	388.6	NA	NA
Economics	229,619.7	NA	NA
Political science	4,658.7	NA	NA
Sociology	102,818.2	NA	NA
Social sciences, nec	500,918.9	NA	NA
Other sciences, nec	1,130,214.5	1,298,545.1	1,474,400.4
Engineering	7,590,045.4	6,621,952.7	7,178,234.6
Aeronautical engineering	678,849.0	NA	NA
Astronautical engineering	358,337.1	NA	NA
Chemical engineering	366,935.9	NA	NA
Civil engineering	544,623.3	NA	NA
Electrical engineering	1,065,943.5	NA	NA
Mechanical engineering	283,314.1	NA	NA
Metallurgy and materials engineering	667,366.4	NA	NA
Engineering, nec	3,624,676.0	NA	NA

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FYs 2010–12.