

TABLE 72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering; FYs 2010–12
(Dollars in thousands)

Field	2010	Preliminary	
		2011	2012
All fields	11,640,505.5	10,226,950.5	10,413,094.3
Environmental sciences	201,174.8	172,966.8	178,778.2
Atmospheric sciences	21,972.8	NA	NA
Geological sciences	1,211.3	NA	NA
Oceanography	23,905.6	NA	NA
Environmental sciences, nec	154,085.1	NA	NA
Life sciences	8,607,243.7	7,659,789.5	7,686,449.8
Agricultural sciences	148,897.9	NA	NA
Biological sciences (excluding environmental biology)	4,419,958.9	NA	NA
Environmental biology	121,698.6	NA	NA
Medical sciences	3,216,304.5	NA	NA
Life sciences, nec	700,383.8	NA	NA
Mathematics and computer sciences	171,993.8	146,687.0	167,463.6
Computer sciences	107,044.3	NA	NA
Mathematics	58,582.2	NA	NA
Mathematics and computer sciences, nec	6,367.4	NA	NA
Physical sciences	270,902.1	237,652.3	234,601.2
Astronomy	5,659.5	NA	NA
Chemistry	130,330.3	NA	NA
Physics	102,961.1	NA	NA
Physical sciences, nec	31,951.2	NA	NA
Psychology	619,705.7	533,630.6	556,037.0
Biological aspects	3,495.6	NA	NA
Social aspects	9,620.8	NA	NA
Psychological sciences, nec	606,589.3	NA	NA
Social sciences	200,233.0	205,601.1	192,393.7
Anthropology	271.6	NA	NA
Economics	37,455.8	NA	NA
Political science	1,313.1	NA	NA
Sociology	13,441.5	NA	NA
Social sciences, nec	147,750.9	NA	NA
Other sciences, nec	291,833.7	285,218.2	287,088.8
Engineering	1,277,418.8	985,405.1	1,110,282.1
Aeronautical engineering	49,282.5	NA	NA
Astronautical engineering	24,295.6	NA	NA
Chemical engineering	68,786.5	NA	NA
Civil engineering	42,894.9	NA	NA
Electrical engineering	126,829.7	NA	NA
Mechanical engineering	34,819.4	NA	NA
Metallurgy and materials engineering	89,942.9	NA	NA
Engineering, nec	840,567.3	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.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FYs 2010–12.

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