

TABLE 72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2009–11

(Dollars in thousands)

Field	2009	Preliminary	
		2010	2011
All fields	11,391,290	11,945,033	10,568,747
Environmental sciences	192,514	197,196	177,819
Atmospheric sciences	26,323	NA	NA
Geological sciences	6,717	NA	NA
Oceanography	20,067	NA	NA
Environmental sciences, nec	139,406	NA	NA
Life sciences	8,512,253	8,848,405	7,875,848
Agricultural sciences	152,033	NA	NA
Biological sciences (excluding environmental biology)	4,499,266	NA	NA
Environmental biology	120,325	NA	NA
Medical sciences	3,041,221	NA	NA
Life sciences, nec	699,407	NA	NA
Mathematics and computer sciences	270,137	252,434	243,092
Computer sciences	197,819	NA	NA
Mathematics	58,981	NA	NA
Mathematics and computer sciences, nec	13,337	NA	NA
Physical sciences	262,058	278,046	262,766
Astronomy	6,360	NA	NA
Chemistry	139,503	NA	NA
Physics	96,811	NA	NA
Physical sciences, nec	19,384	NA	NA
Psychology	602,901	620,149	550,164
Biological aspects	232	NA	NA
Social aspects	4,603	NA	NA
Psychological sciences, nec	598,066	NA	NA
Social sciences	171,739	214,443	161,853
Anthropology	145	NA	NA
Economics	35,237	NA	NA
Political science	1,510	NA	NA
Sociology	13,665	NA	NA
Social sciences, nec	121,182	NA	NA
Other sciences, nec	314,420	343,252	339,807
Engineering	1,065,268	1,191,108	957,399
Aeronautical engineering	56,843	NA	NA
Astronautical engineering	27,788	NA	NA
Chemical engineering	53,945	NA	NA
Civil engineering	55,022	NA	NA
Electrical engineering	122,583	NA	NA
Mechanical engineering	23,133	NA	NA
Metallurgy and materials engineering	86,414	NA	NA
Engineering, nec	639,541	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: 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 FY 2009, 2010, and 2011.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2009–11.