

TABLE 56. Federal obligations for 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	29,589,922	29,225,844	26,682,514
Environmental sciences	1,305,816	1,028,890	1,040,045
Atmospheric sciences	284,800	NA	NA
Geological sciences	257,584	NA	NA
Oceanography	369,235	NA	NA
Environmental sciences, nec	394,198	NA	NA
Life sciences	18,773,455	19,330,906	17,174,742
Agricultural sciences	262,086	NA	NA
Biological sciences (excluding environmental biology)	10,299,005	NA	NA
Environmental biology	383,204	NA	NA
Medical sciences	6,292,938	NA	NA
Life sciences, nec	1,536,221	NA	NA
Mathematics and computer sciences	1,539,965	1,324,554	1,318,670
Computer sciences	1,017,899	NA	NA
Mathematics	484,982	NA	NA
Mathematics and computer sciences, nec	37,084	NA	NA
Physical sciences	2,201,132	1,936,239	1,942,740
Astronomy	248,348	NA	NA
Chemistry	681,109	NA	NA
Physics	993,487	NA	NA
Physical sciences, nec	278,188	NA	NA
Psychology	1,302,023	1,344,614	1,183,221
Biological aspects	265	NA	NA
Social aspects	15,847	NA	NA
Psychological sciences, nec	1,285,911	NA	NA
Social sciences	473,958	467,931	438,679
Anthropology	22,289	NA	NA
Economics	68,224	NA	NA
Political science	14,235	NA	NA
Sociology	30,171	NA	NA
Social sciences, nec	339,039	NA	NA
Other sciences, nec	1,270,776	1,028,203	984,077
Engineering	2,722,796	2,764,507	2,600,341
Aeronautical engineering	114,983	NA	NA
Astronautical engineering	36,969	NA	NA
Chemical engineering	209,328	NA	NA
Civil engineering	211,173	NA	NA
Electrical engineering	314,591	NA	NA
Mechanical engineering	73,023	NA	NA
Metallurgy and materials engineering	387,236	NA	NA
Engineering, nec	1,375,493	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. Research obligations of these seven agencies represented approximately 98% of total federal 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.