

TABLE 64. Federal obligations for basic 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	18,198,632	17,280,811	16,113,767
Environmental sciences	1,113,303	831,694	862,226
Atmospheric sciences	258,477	NA	NA
Geological sciences	250,866	NA	NA
Oceanography	349,167	NA	NA
Environmental sciences, nec	254,792	NA	NA
Life sciences	10,261,202	10,482,501	9,298,894
Agricultural sciences	110,053	NA	NA
Biological sciences (excluding environmental biology)	5,799,740	NA	NA
Environmental biology	262,879	NA	NA
Medical sciences	3,251,717	NA	NA
Life sciences, nec	836,814	NA	NA
Mathematics and computer sciences	1,269,828	1,072,120	1,075,578
Computer sciences	820,079	NA	NA
Mathematics	426,001	NA	NA
Mathematics and computer sciences, nec	23,747	NA	NA
Physical sciences	1,939,075	1,658,193	1,679,974
Astronomy	241,988	NA	NA
Chemistry	541,605	NA	NA
Physics	896,677	NA	NA
Physical sciences, nec	258,804	NA	NA
Psychology	699,123	724,465	633,057
Biological aspects	33	NA	NA
Social aspects	11,244	NA	NA
Psychological sciences, nec	687,845	NA	NA
Social sciences	302,219	253,489	276,826
Anthropology	22,145	NA	NA
Economics	32,986	NA	NA
Political science	12,725	NA	NA
Sociology	16,506	NA	NA
Social sciences, nec	217,857	NA	NA
Other sciences, nec	956,356	684,951	644,271
Engineering	1,657,528	1,573,399	1,642,942
Aeronautical engineering	58,140	NA	NA
Astronautical engineering	9,181	NA	NA
Chemical engineering	155,382	NA	NA
Civil engineering	156,151	NA	NA
Electrical engineering	192,008	NA	NA
Mechanical engineering	49,890	NA	NA
Metallurgy and materials engineering	300,823	NA	NA
Engineering, nec	735,952	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. Basic research obligations of these seven agencies represented over 99% of total federal basic 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.