

TABLE 64. Federal obligations for basic 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	17,344,017.8	15,711,755.8	16,535,578.8
Environmental sciences	935,683.4	858,792.8	980,145.9
Atmospheric sciences	233,677.2	NA	NA
Geological sciences	186,041.5	NA	NA
Oceanography	322,433.9	NA	NA
Environmental sciences, nec	193,530.7	NA	NA
Life sciences	10,244,915.6	9,068,420.9	9,374,500.7
Agricultural sciences	124,439.0	NA	NA
Biological sciences (excluding environmental biology)	5,742,364.9	NA	NA
Environmental biology	234,862.6	NA	NA
Medical sciences	3,336,690.7	NA	NA
Life sciences, nec	806,558.5	NA	NA
Mathematics and computer sciences	1,105,536.1	1,052,551.7	1,213,273.6
Computer sciences	710,226.3	NA	NA
Mathematics	358,136.1	NA	NA
Mathematics and computer sciences, nec	37,173.7	NA	NA
Physical sciences	1,767,230.0	1,599,363.8	1,745,897.5
Astronomy	168,992.3	NA	NA
Chemistry	530,393.4	NA	NA
Physics	853,731.8	NA	NA
Physical sciences, nec	214,112.4	NA	NA
Psychology	757,270.0	666,955.3	672,151.1
Biological aspects	8,981.0	NA	NA
Social aspects	10,161.7	NA	NA
Psychological sciences, nec	738,127.3	NA	NA
Social sciences	261,649.4	270,047.3	271,477.9
Anthropology	19,291.0	NA	NA
Economics	31,406.1	NA	NA
Political science	9,345.0	NA	NA
Sociology	18,448.5	NA	NA
Social sciences, nec	183,158.9	NA	NA
Other sciences, nec	607,543.3	503,839.0	527,646.5
Engineering	1,664,190.0	1,691,784.8	1,750,485.7
Aeronautical engineering	73,357.0	NA	NA
Astronautical engineering	15,620.3	NA	NA
Chemical engineering	125,989.1	NA	NA
Civil engineering	140,115.4	NA	NA
Electrical engineering	188,911.9	NA	NA
Mechanical engineering	48,955.6	NA	NA
Metallurgy and materials engineering	280,592.0	NA	NA
Engineering, nec	790,648.9	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. Basic research obligations of these seven agencies represented over 99% of total federal basic 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.