

TABLE 56. Federal obligations for 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	28,984,523.3	25,938,706.3	26,948,673.1
Environmental sciences	1,136,858.2	1,031,759.6	1,158,924.1
Atmospheric sciences	255,650.0	NA	NA
Geological sciences	187,252.9	NA	NA
Oceanography	346,339.5	NA	NA
Environmental sciences, nec	347,615.8	NA	NA
Life sciences	18,852,159.3	16,728,210.4	17,060,950.5
Agricultural sciences	273,336.8	NA	NA
Biological sciences (excluding environmental biology)	10,162,323.8	NA	NA
Environmental biology	356,561.2	NA	NA
Medical sciences	6,552,995.2	NA	NA
Life sciences, nec	1,506,942.2	NA	NA
Mathematics and computer sciences	1,277,529.9	1,199,238.8	1,380,737.2
Computer sciences	817,270.6	NA	NA
Mathematics	416,718.2	NA	NA
Mathematics and computer sciences, nec	43,541.1	NA	NA
Physical sciences	2,038,132.0	1,837,016.1	1,980,498.6
Astronomy	174,651.7	NA	NA
Chemistry	660,723.8	NA	NA
Physics	956,692.9	NA	NA
Physical sciences, nec	246,063.6	NA	NA
Psychology	1,376,975.7	1,200,585.9	1,228,188.1
Biological aspects	12,476.6	NA	NA
Social aspects	19,782.5	NA	NA
Psychological sciences, nec	1,344,716.6	NA	NA
Social sciences	461,882.4	475,648.4	463,871.6
Anthropology	19,562.6	NA	NA
Economics	68,861.9	NA	NA
Political science	10,658.1	NA	NA
Sociology	31,890.0	NA	NA
Social sciences, nec	330,909.8	NA	NA
Other sciences, nec	899,377.0	789,057.2	814,735.2
Engineering	2,941,608.8	2,677,190.0	2,860,767.7
Aeronautical engineering	122,639.5	NA	NA
Astronautical engineering	39,915.9	NA	NA
Chemical engineering	194,775.6	NA	NA
Civil engineering	183,010.2	NA	NA
Electrical engineering	315,741.6	NA	NA
Mechanical engineering	83,774.9	NA	NA
Metallurgy and materials engineering	370,534.9	NA	NA
Engineering, nec	1,631,216.2	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. Research obligations of these seven agencies represented over 98% of total federal 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.