

TABLE 87. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2011–13

(Dollars in thousands)

Field	2011	Preliminary	
		2012	2013
All fields	9,936,787.7	9,943,854.7	9,962,464.7
Computer sciences and mathematics	218,347.9	210,721.9	210,273.1
Computer sciences	144,091.7	NA	NA
Mathematics	71,569.4	NA	NA
Other computer sciences and mathematics	2,686.8	NA	NA
Engineering	924,576.1	858,501.0	896,136.7
Aeronautical engineering	42,087.7	NA	NA
Astronautical engineering	20,517.1	NA	NA
Chemical engineering	49,832.5	NA	NA
Civil engineering	50,404.1	NA	NA
Electrical engineering	134,731.7	NA	NA
Mechanical engineering	30,541.0	NA	NA
Metallurgy and materials engineering	55,951.7	NA	NA
Other engineering	540,510.4	NA	NA
Environmental sciences	164,170.6	156,838.9	150,928.7
Atmospheric sciences	21,905.9	NA	NA
Geological sciences	904.7	NA	NA
Oceanography	20,017.4	NA	NA
Other environmental sciences	121,342.6	NA	NA
Life sciences	7,399,320.7	7,475,127.4	7,449,774.6
Agricultural sciences	171,501.9	NA	NA
Biological sciences (excluding environmental biology)	3,831,245.9	NA	NA
Environmental biology	100,168.1	NA	NA
Medical sciences	2,663,801.7	NA	NA
Other life sciences	632,603.1	NA	NA
Physical sciences	212,622.3	205,155.4	211,059.9
Astronomy	4,776.2	NA	NA
Chemistry	101,207.7	NA	NA
Physics	85,675.6	NA	NA
Other physical sciences	20,962.9	NA	NA
Psychology	524,837.8	529,064.3	530,445.2
Biological aspects	2,959.8	NA	NA
Social aspects	3,603.6	NA	NA
Other psychological sciences	518,274.5	NA	NA
Social sciences	141,131.5	145,048.8	143,324.8
Anthropology	308.1	NA	NA
Economics	37,882.6	NA	NA
Political science	931.6	NA	NA
Sociology	16,506.4	NA	NA
Other social sciences	85,502.8	NA	NA
Other sciences nec	351,780.7	363,396.9	370,521.8

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 the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FYs 2011–13.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.