

TABLE 76

Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2019–20

(Dollars in thousands)

Field	2019	2020 (preliminary)
All fields	13,077,676.4	14,014,190.8
Computer sciences and mathematics	385,120.2	425,269.5
Computer sciences	341,579.0	NA
Mathematics	28,648.7	NA
Other computer sciences and mathematics	14,892.5	NA
Engineering	1,348,776.6	1,533,014.1
Aeronautical engineering	86,422.3	NA
Astronautical engineering	12,068.8	NA
Chemical engineering	28,374.6	NA
Civil engineering	1,959.7	NA
Electrical engineering	80,860.5	NA
Mechanical engineering	39,352.4	NA
Metallurgy and materials engineering	70,010.8	NA
Other engineering	1,029,727.6	NA
Environmental sciences	209,933.0	212,312.7
Atmospheric sciences	5,144.7	NA
Geological sciences	283.6	NA
Oceanography	36,515.0	NA
Other environmental sciences	167,989.7	NA
Life sciences	9,545,271.6	10,123,344.7
Agricultural sciences	254,024.9	NA
Biological sciences (excluding environmental biology)	4,936,824.6	NA
Environmental biology	102,092.1	NA
Medical sciences	3,225,633.1	NA
Other life sciences	1,026,697.0	NA
Physical sciences	118,031.4	195,839.7
Astronomy	1,063.1	NA
Chemistry	66,439.3	NA
Physics	30,645.8	NA
Other physical sciences	19,883.3	NA
Psychology	759,370.2	802,608.1
Biological aspects	0.0	NA
Social aspects	3,565.7	NA
Other psychological sciences	755,804.5	NA
Social sciences	115,801.9	127,668.1
Anthropology	36.1	NA
Economics	45,838.8	NA
Political science	0.0	NA
Sociology	15,050.5	NA
Other social sciences	54,876.4	NA
Other sciences nec	595,371.3	594,133.9

NA = not available; data were not collected at that level for that fiscal year.

nec = not elsewhere classified.

Note(s):

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 more than 95% of total federal applied research obligations to universities and colleges in FYs 2019–20. FY 2020 preliminary data do not include obligations from supplemental COVID-19 related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act).

Source(s):
National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2019–20.