

TABLE 29

**Federal obligations for basic research, by detailed field of science and engineering: FYs 2019–20**

(Dollars in thousands)

Field	2019	2020 (preliminary)
All fields	40,017,257.6	41,755,263.7
Computer sciences and mathematics	2,305,943.3	2,474,181.4
Computer sciences	1,150,707.7	NA
Mathematics	1,038,831.0	NA
Other computer sciences and mathematics	116,404.6	NA
Engineering	3,617,951.0	3,811,540.5
Aeronautical engineering	70,949.6	NA
Astronautical engineering	8,686.5	NA
Chemical engineering	74,877.7	NA
Civil engineering	11,536.3	NA
Electrical engineering	219,453.2	NA
Mechanical engineering	103,411.3	NA
Metallurgy and materials engineering	1,223,084.2	NA
Other engineering	1,905,952.2	NA
Environmental sciences	3,251,794.3	2,922,334.9
Atmospheric sciences	513,747.1	NA
Geological sciences	200,334.2	NA
Oceanography	432,082.4	NA
Other environmental sciences	2,105,630.6	NA
Life sciences	18,880,552.1	20,206,451.5
Agricultural sciences	634,606.2	NA
Biological sciences (excluding environmental biology)	9,785,751.9	NA
Environmental biology	490,197.1	NA
Medical sciences	6,389,200.5	NA
Other life sciences	1,580,796.4	NA
Physical sciences	7,906,958.5	7,716,064.7
Astronomy	1,577,197.0	NA
Chemistry	691,292.9	NA
Physics	2,570,637.8	NA
Other physical sciences	3,067,830.8	NA
Psychology	1,366,066.7	1,471,698.9
Biological aspects	16,077.3	NA
Social aspects	10,599.7	NA
Other psychological sciences	1,339,389.7	NA
Social sciences	451,215.9	428,870.1
Anthropology	32,658.3	NA
Economics	85,678.7	NA
Political science	10,281.0	NA
Sociology	36,650.4	NA
Other social sciences	285,947.5	NA
Other sciences nec	2,236,775.9	2,724,121.8

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. 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.