

TABLE 41

**Federal obligations for applied research, by detailed field of science and engineering: FYs 2020–21**

(Dollars in thousands)

Field	2020	2021 (preliminary)
All fields	43,758,135.4	43,924,162.8
Computer sciences and mathematics	3,387,917.5	3,472,233.8
Computer sciences	3,050,374.0	NA
Mathematics	177,657.4	NA
Other computer sciences and mathematics	159,886.1	NA
Engineering	10,324,132.3	11,366,714.7
Aeronautical engineering	1,023,122.7	NA
Astronautical engineering	901,007.3	NA
Chemical engineering	694,144.3	NA
Civil engineering	459,381.4	NA
Electrical engineering	675,279.7	NA
Mechanical engineering	407,276.7	NA
Metallurgy and materials engineering	423,415.0	NA
Other engineering	5,740,505.1	NA
Environmental sciences	1,872,519.8	1,888,112.5
Atmospheric sciences	345,386.8	NA
Geological sciences	44,191.2	NA
Oceanography	475,964.2	NA
Other environmental sciences	1,006,977.6	NA
Life sciences	21,720,001.5	21,126,826.8
Agricultural sciences	730,770.9	NA
Biological sciences (excluding environmental biology)	9,839,443.3	NA
Environmental biology	430,842.6	NA
Medical sciences	8,722,160.2	NA
Other life sciences	1,996,784.4	NA
Physical sciences	1,906,879.2	1,331,042.2
Astronomy	903.2	NA
Chemistry	389,772.1	NA
Physics	1,061,211.8	NA
Other physical sciences	454,992.1	NA
Psychology	1,664,157.3	1,627,111.0
Biological aspects	597.1	NA
Social aspects	30,046.0	NA
Other psychological sciences	1,633,514.2	NA
Social sciences	697,896.4	827,089.9
Anthropology	1,056.8	NA
Economics	163,821.7	NA
Political science	7,916.0	NA
Sociology	132,467.9	NA
Other social sciences	392,634.0	NA
Other sciences nec	2,184,631.6	2,285,031.9

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. FYs 2020 and 2021 obligations include additional funding provided by 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 2020–21.