TABLE 41

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

(Dollars in thousands)

Field	2019	2020 (preliminary)
All fields	41,100,526.5	43,507,176.5
Computer sciences and mathematics	2,024,030.2	2,266,099.4
Computer sciences	1,746,089.6	N/
Mathematics	118,086.1	N/
Other computer sciences and mathematics	159,854.5	N/
Engineering	11,661,360.2	12,605,872.6
Aeronautical engineering	1,128,215.4	N/
Astronautical engineering	820,974.5	NA
Chemical engineering	379,215.4	N/
Civil engineering	554,753.9	NA
Electrical engineering	751,156.5	N/
Mechanical engineering	526,731.2	N/
Metallurgy and materials engineering	619,747.1	NA
Other engineering	6,880,565.9	NA
Environmental sciences	1,822,909.7	1,855,955.
Atmospheric sciences	310,499.8	NA
Geological sciences	38,808.7	N/
Oceanography	387,135.1	N
Other environmental sciences	1,086,466.1	N
Life sciences	19,423,110.3	20,458,931.
Agricultural sciences	810,912.7	N/
Biological sciences (excluding environmental biology)	9,124,634.1	N
Environmental biology	433,990.3	N
Medical sciences	7,385,577.2	N
Other life sciences	1,667,996.0	N/
Physical sciences	1,909,174.4	1,891,581.
Astronomy	6,220.8	N/
Chemistry	434,164.6	N/
Physics	875,339.8	N
Other physical sciences	593,449.1	N
Psychology	1,387,487.3	1,461,250.9
Biological aspects	1,445.9	NA
Social aspects	42,140.4	N
Other psychological sciences	1,343,901.0	NA
Social sciences	704,456.9	589,385.0
Anthropology	2,290.1	NA
Economics	209,229.3	N/
Political science	3,905.3	N/
Sociology	187,366.3	N/
Other social sciences	301,665.9	N/
Other sciences nec	2,167,997.4	2,378,100.3

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.