

TABLE 49

Federal obligations for basic research performed at higher education institutions, by detailed field of R&D: FY 2021

(Dollars in thousands)

Field	2021
All fields	21,440,653
Computer and information sciences	1,059,895
Geosciences, atmospheric sciences, and ocean sciences	1,116,727
Atmospheric science and meteorology	202,417
Geological and earth sciences	209,250
Ocean sciences and marine sciences	433,442
Other geosciences, atmospheric sciences, and ocean sciences	271,618
Life sciences	10,887,993
Agricultural sciences	90,479
Biological and biomedical sciences	6,258,458
Health sciences	3,442,503
Natural resources and conservation	371
Other life sciences	1,096,181
Mathematics and statistics	378,451
Physical sciences	2,221,178
Astronomy and astrophysics	80,239
Chemistry	500,765
Materials science	327,715
Physics	807,716
Other physical sciences	504,744
Psychology	1,295,247
Biological aspects	13,456
Social aspects	9,981
Other psychological sciences	1,271,810
Social sciences	406,248
Anthropology	19,706
Economics	37,620
Political science and government	1,235
Sociology, demography, and population studies	27,187
Other social sciences	320,500
Engineering	1,845,620
Aerospace, aeronautical, and astronautical engineering	59,084
Bioengineering and biomedical engineering	24,551
Chemical engineering	100,323
Civil engineering	57,185
Electrical, electronics, and communications engineering	145,790
Industrial and manufacturing engineering	39,603
Mechanical engineering	93,323
Metallurgical and materials engineering	79,694
Other engineering	1,246,065
Other fields	2,229,294
Business management and business administration	21,271
Communication and communications technologies	0
Education research	319,406
Humanities	5,453
Law	140
Social work	0
Visual and performing arts	0
All other fields	1,883,024

Note(s):

Because of rounding, detail may not add to total. FY 2021 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), the fields of R&D (formerly, "fields of science and engineering") were revised for consistency with other National Center for Science and Engineering Statistics surveys; some fields were added, merged, or split, and some fields were renamed. Therefore, the data are not directly comparable with totals reported in previous years. See technical table A-3 for additional notes associated with the taxonomy changes to the fields listed in this table.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.