

TABLE 28

**Federal obligations for basic research, by detailed field of R&D: FYs 2022–23**

(Dollars in thousands)

Field	2022	2023 (preliminary)
All fields	45,392,702	48,467,014
Computer and information sciences	2,297,975	2,430,647
Geosciences, atmospheric sciences, and ocean sciences	3,441,026	3,991,137
Atmospheric science and meteorology	557,055	NA
Geological and earth sciences	301,619	NA
Ocean sciences and marine sciences	518,836	NA
Other geosciences, atmospheric sciences, and ocean sciences	2,063,516	NA
Life sciences	19,051,906	20,388,014
Agricultural sciences	648,071	NA
Biological and biomedical sciences	9,780,292	NA
Health sciences	6,611,208	NA
Natural resources and conservation	44,034	NA
Other life sciences	1,968,301	NA
Mathematics and statistics	608,303	615,566
Physical sciences	9,449,069	9,750,710
Astronomy and astrophysics	1,112,416	NA
Chemistry	1,259,787	NA
Materials science	354,766	NA
Physics	2,657,930	NA
Other physical sciences	4,064,171	NA
Psychology	2,287,935	2,433,629
Biological aspects	18,240	NA
Social aspects	13,872	NA
Other psychological sciences	2,255,823	NA
Social sciences	765,995	822,119
Anthropology	36,142	NA
Economics	58,014	NA
Political science and government	126	NA
Sociology, demography, and population studies	33,158	NA
Other social sciences	638,555	NA
Engineering	3,738,817	3,923,050
Aerospace, aeronautical, and astronautical engineering	292,696	NA
Bioengineering and biomedical engineering	84,152	NA
Chemical engineering	124,326	NA
Civil engineering	70,467	NA
Electrical, electronics, and communications engineering	211,045	NA
Industrial and manufacturing engineering	45,372	NA
Mechanical engineering	134,990	NA
Metallurgical and materials engineering	201,087	NA
Other engineering	2,574,682	NA
Other fields	3,751,677	4,112,141
Business management and business administration	26,968	NA
Communication and communications technologies	515	NA
Education research	356,719	NA
Humanities	1	NA
Law	6,135	NA
Social work	0	NA
Visual and performing arts	0	NA
All other fields	3,361,340	NA

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

**Note(s):**

Because of rounding, detail may not add to total. FY 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-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 2022–23.