

TABLE 23

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

(Dollars in thousands)

Field	2022	2023 (preliminary)
All fields	93,807,126	99,480,903
Computer and information sciences	4,830,950	5,459,495
Geosciences, atmospheric sciences, and ocean sciences	5,565,684	6,711,960
Atmospheric science and meteorology	960,358	NA
Geological and earth sciences	621,825	NA
Ocean sciences and marine sciences	1,126,528	NA
Other geosciences, atmospheric sciences, and ocean sciences	2,856,972	NA
Life sciences	41,609,665	42,330,253
Agricultural sciences	1,267,942	NA
Biological and biomedical sciences	21,327,313	NA
Health sciences	14,706,573	NA
Natural resources and conservation	247,345	NA
Other life sciences	4,060,493	NA
Mathematics and statistics	904,053	928,920
Physical sciences	12,099,233	12,664,756
Astronomy and astrophysics	1,112,508	NA
Chemistry	2,014,370	NA
Materials science	533,427	NA
Physics	3,676,934	NA
Other physical sciences	4,761,994	NA
Psychology	4,587,769	4,880,104
Biological aspects	29,043	NA
Social aspects	48,189	NA
Other psychological sciences	4,510,537	NA
Social sciences	1,916,873	2,160,428
Anthropology	56,750	NA
Economics	245,314	NA
Political science and government	8,114	NA
Sociology, demography, and population studies	101,869	NA
Other social sciences	1,504,826	NA
Engineering	15,496,600	16,758,257
Aerospace, aeronautical, and astronautical engineering	2,391,391	NA
Bioengineering and biomedical engineering	148,465	NA
Chemical engineering	748,538	NA
Civil engineering	644,269	NA
Electrical, electronics, and communications engineering	872,079	NA
Industrial and manufacturing engineering	2,074,579	NA
Mechanical engineering	429,384	NA
Metallurgical and materials engineering	546,020	NA
Other engineering	7,641,875	NA
Other fields	6,796,301	7,586,730
Business management and business administration	105,617	NA
Communication and communications technologies	21,340	NA
Education research	1,063,331	NA
Humanities	1	NA
Law	6,229	NA
Social work	0	NA
Visual and performing arts	0	NA
All other fields	5,599,782	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.