

TABLE 33

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

(Dollars in thousands)

Field	2022	2023 (preliminary)
All fields	48,414,424	51,013,890
Computer and information sciences	2,532,975	3,028,848
Geosciences, atmospheric sciences, and ocean sciences	2,124,657	2,720,823
Atmospheric science and meteorology	403,303	NA
Geological and earth sciences	320,206	NA
Ocean sciences and marine sciences	607,692	NA
Other geosciences, atmospheric sciences, and ocean sciences	793,456	NA
Life sciences	22,557,759	21,942,239
Agricultural sciences	619,871	NA
Biological and biomedical sciences	11,547,021	NA
Health sciences	8,095,365	NA
Natural resources and conservation	203,311	NA
Other life sciences	2,092,191	NA
Mathematics and statistics	295,750	313,354
Physical sciences	2,650,164	2,914,046
Astronomy and astrophysics	92	NA
Chemistry	754,582	NA
Materials science	178,661	NA
Physics	1,019,004	NA
Other physical sciences	697,824	NA
Psychology	2,299,833	2,446,475
Biological aspects	10,802	NA
Social aspects	34,317	NA
Other psychological sciences	2,254,714	NA
Social sciences	1,150,878	1,338,309
Anthropology	20,608	NA
Economics	187,300	NA
Political science and government	7,988	NA
Sociology, demography, and population studies	68,711	NA
Other social sciences	866,272	NA
Engineering	11,757,783	12,835,206
Aerospace, aeronautical, and astronautical engineering	2,098,696	NA
Bioengineering and biomedical engineering	64,313	NA
Chemical engineering	624,212	NA
Civil engineering	573,802	NA
Electrical, electronics, and communications engineering	661,033	NA
Industrial and manufacturing engineering	2,029,207	NA
Mechanical engineering	294,395	NA
Metallurgical and materials engineering	344,933	NA
Other engineering	5,067,193	NA
Other fields	3,044,624	3,474,589
Business management and business administration	78,649	NA
Communication and communications technologies	20,826	NA
Education research	706,613	NA
Humanities	*	NA
Law	93	NA
Social work	0	NA
Visual and performing arts	0	NA
All other fields	2,238,443	NA

\* = amount greater than \$0 but less than \$500.

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.