

TABLE 23

Federal obligations for research, by detailed field of R&D: FYs 2021–22

(Dollars in thousands)

| Field | 2021 | 2022 (preliminary) |
|---|------------|--------------------|
| All fields | 86,244,258 | 88,464,235 |
| Computer and information sciences | 5,349,660 | 5,876,825 |
| Geosciences, atmospheric sciences, and ocean sciences | 3,569,077 | 6,051,877 |
| Atmospheric science and meteorology | 888,365 | NA |
| Geological and earth sciences | 602,193 | NA |
| Ocean sciences and marine sciences | 1,095,816 | NA |
| Other geosciences, atmospheric sciences, and ocean sciences | 982,703 | NA |
| Life sciences | 38,177,668 | 38,511,237 |
| Agricultural sciences | 1,073,374 | NA |
| Biological and biomedical sciences | 18,232,787 | NA |
| Health sciences | 15,007,812 | NA |
| Natural resources and conservation | 227,170 | NA |
| Other life sciences | 3,636,525 | NA |
| Mathematics and statistics | 715,493 | 732,546 |
| Physical sciences | 8,044,401 | 11,112,001 |
| Astronomy and astrophysics | 307,541 | NA |
| Chemistry | 1,140,891 | NA |
| Materials science | 552,275 | NA |
| Physics | 3,139,200 | NA |
| Other physical sciences | 2,904,494 | NA |
| Psychology | 3,769,968 | 3,775,941 |
| Biological aspects | 13,953 | NA |
| Social aspects | 50,459 | NA |
| Other psychological sciences | 3,705,556 | NA |
| Social sciences | 1,369,741 | 1,449,146 |
| Anthropology | 41,957 | NA |
| Economics | 227,999 | NA |
| Political science and government | 10,541 | NA |
| Sociology, demography, and population studies | 110,796 | NA |
| Other social sciences | 978,447 | NA |
| Engineering | 13,374,364 | 13,860,763 |
| Aerospace, aeronautical, and astronautical engineering | 1,717,013 | NA |
| Bioengineering and biomedical engineering | 39,678 | NA |
| Chemical engineering | 733,101 | NA |
| Civil engineering | 648,951 | NA |
| Electrical, electronics, and communications engineering | 887,145 | NA |
| Industrial and manufacturing engineering | 291,018 | NA |
| Mechanical engineering | 289,150 | NA |
| Metallurgical and materials engineering | 811,117 | NA |
| Other engineering | 7,957,190 | NA |
| Other fields | 11,873,886 | 7,093,900 |
| Business management and business administration | 119,810 | NA |
| Communication and communications technologies | 12,257 | NA |
| Education research | 987,034 | NA |
| Humanities | 67 | NA |
| Law | 6,940 | NA |
| Social work | 0 | NA |
| Visual and performing arts | 0 | NA |
| All other fields | 10,747,777 | 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. FYs 2021 and 2022 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.