

TABLE 38

Federal obligations for experimental development, by detailed field of R&D: FYs 2023–24

(Dollars in thousands)

| Field | 2023 | 2024 (preliminary) |
|---|------------|--------------------|
| All fields | 84,808,714 | 97,036,644 |
| Computer and information sciences | 3,631,502 | 3,659,092 |
| Geosciences, atmospheric sciences, and ocean sciences | 960,187 | 654,992 |
| Atmospheric science and meteorology | 249,249 | NA |
| Geological and earth sciences | 40,382 | NA |
| Ocean sciences and marine sciences | 103,542 | NA |
| Other geosciences, atmospheric sciences, and ocean sciences | 567,015 | NA |
| Life sciences | 5,687,969 | 6,007,596 |
| Agricultural sciences | 43,703 | NA |
| Biological and biomedical sciences | 2,838,967 | NA |
| Health sciences | 2,590,096 | NA |
| Natural resources and conservation | 42,356 | NA |
| Other life sciences | 172,847 | NA |
| Mathematics and statistics | 281,582 | 302,957 |
| Physical sciences | 3,958,053 | 3,891,373 |
| Astronomy and astrophysics | 461,043 | NA |
| Chemistry | 545,929 | NA |
| Materials science | 22,508 | NA |
| Physics | 882,501 | NA |
| Other physical sciences | 2,046,072 | NA |
| Psychology | 447,640 | 491,267 |
| Biological aspects | 0 | NA |
| Social aspects | 1,000 | NA |
| Other psychological sciences | 446,640 | NA |
| Social sciences | 177,885 | 237,310 |
| Anthropology | 0 | NA |
| Economics | 19,463 | NA |
| Political science and government | 6,515 | NA |
| Sociology, demography, and population studies | 6,300 | NA |
| Other social sciences | 145,607 | NA |
| Engineering | 51,424,175 | 61,705,166 |
| Aerospace, aeronautical, and astronautical engineering | 22,682,081 | NA |
| Bioengineering and biomedical engineering | 855,238 | NA |
| Chemical engineering | 540,965 | NA |
| Civil engineering | 698,254 | NA |
| Electrical, electronics, and communications engineering | 3,034,908 | NA |
| Industrial and manufacturing engineering | 1,828,509 | NA |
| Mechanical engineering | 1,019,460 | NA |
| Metallurgical and materials engineering | 1,178,637 | NA |
| Other engineering | 19,586,123 | NA |
| Other fields | 18,239,721 | 20,086,892 |
| Business management and business administration | 1,410,647 | NA |
| Communication and communications technologies | 380,382 | NA |
| Education research | 133,822 | NA |
| Humanities | 0 | NA |
| Law | 245 | NA |
| Social work | 11 | NA |
| Visual and performing arts | 0 | NA |
| All other fields | 16,314,614 | 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.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2023–24.