

TABLE 53

**Federal obligations for experimental development performed at higher education institutions, by detailed field of R&D: FY 2023**

(Dollars in thousands)

Field	2023
All fields	3,238,460
Computer and information sciences	85,845
Geosciences, atmospheric sciences, and ocean sciences	151,829
Atmospheric science and meteorology	63,824
Geological and earth sciences	5,141
Ocean sciences and marine sciences	48,849
Other geosciences, atmospheric sciences, and ocean sciences	34,015
Life sciences	977,638
Agricultural sciences	15,113
Biological and biomedical sciences	912,317
Health sciences	41,785
Natural resources and conservation	5,569
Other life sciences	2,853
Mathematics and statistics	6,481
Physical sciences	336,958
Astronomy and astrophysics	56,123
Chemistry	20,687
Materials science	1,749
Physics	159,296
Other physical sciences	99,103
Psychology	6,888
Biological aspects	0
Social aspects	0
Other psychological sciences	6,888
Social sciences	7,905
Anthropology	0
Economics	105
Political science and government	209
Sociology, demography, and population studies	230
Other social sciences	7,362
Engineering	1,180,458
Aerospace, aeronautical, and astronautical engineering	250,659
Bioengineering and biomedical engineering	6,586
Chemical engineering	24,393
Civil engineering	11,978
Electrical, electronics, and communications engineering	150,701
Industrial and manufacturing engineering	104,390
Mechanical engineering	30,680
Metallurgical and materials engineering	29,246
Other engineering	571,826
Other fields	484,458
Business management and business administration	7,649
Communication and communications technologies	7,209
Education research	106,509
Humanities	0
Law	0
Social work	0
Visual and performing arts	0
All other fields	363,091

**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.