

**Table 53. Federal obligations for experimental development performed at higher education institutions, by detailed field of R&D: FY 2024**

(Dollars in thousands)

Field	2024
All fields	3,903,460
Computer and information sciences	286,995
Geosciences, atmospheric sciences, and ocean sciences	148,721
Atmospheric science and meteorology	64,700
Geological and earth sciences	4,065
Ocean sciences and marine sciences	26,595
Other geosciences, atmospheric sciences, and ocean sciences	53,360
Life sciences	952,845
Agricultural sciences	26,874
Biological and biomedical sciences	866,898
Health sciences	42,862
Natural resources and conservation	4,490
Other life sciences	11,722
Mathematics and statistics	4,365
Physical sciences	789,074
Astronomy and astrophysics	52,816
Chemistry	20,896
Materials science	10,370
Physics	178,819
Other physical sciences	526,173
Psychology	6,888
Biological aspects	0
Social aspects	0
Other psychological sciences	6,888
Social sciences	9,290
Anthropology	0
Economics	71
Political science and government	144
Sociology, demography, and population studies	4,671
Other social sciences	4,405
Engineering	1,272,486
Aerospace, aeronautical, and astronautical engineering	414,917
Bioengineering and biomedical engineering	8,563
Chemical engineering	34,078
Civil engineering	18,114
Electrical, electronics, and communications engineering	105,813
Industrial and manufacturing engineering	68,382
Mechanical engineering	18,123
Metallurgical and materials engineering	35,413
Other engineering	569,082
Other fields	432,797
Business management and business administration	12,069
Communication and communications technologies	10,438
Education research	145,102
Humanities	1,764
Law	4,600
Social work	0
Visual and performing arts	0
All other fields	258,824

**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 2024–25.