TABLE 38

Federal obligations for experimental development, by detailed field of R&D: FYs 2022–23 (Dollars in thousands)

ield	2022	2023 (preliminar
All fields	96,614,768	86,967,07
Computer and information sciences	2,441,587	3,071,24
Geosciences, atmospheric sciences, and ocean sciences	724,394	814,60
Atmospheric science and meteorology	161,652	N
Geological and earth sciences	98,794	N
Ocean sciences and marine sciences	97,043	N
Other geosciences, atmospheric sciences, and ocean sciences	366,905	N
Life sciences	30,408,047	5,768,62
Agricultural sciences	69,277	N
Biological and biomedical sciences	27,943,626	N
Health sciences	2,126,858	N
Natural resources and conservation	60,942	N
Other life sciences	207,343	N
Mathematics and statistics	225,671	289,09
Physical sciences	3,415,031	4,324,7
Astronomy and astrophysics	649,952	
Chemistry	500,846	N
Materials science	29,435	1
Physics	645,248	
Other physical sciences	1,589,550	
Psychology	383,043	493,4
Biological aspects	0	120,1
Social aspects	1,951	
Other psychological sciences	381,092	·
Social sciences	149,433	209,2
Anthropology	5,546	203,2
Economics	15,792	
Political science and government	237	
Sociology, demography, and population studies	18,548	
Other social sciences	•	
Engineering	109,310	54,070,1
Aerospace, aeronautical, and astronautical engineering	44,427,376	34,070,1
	18,949,433	
Bioengineering and biomedical engineering	419,323	
Chemical engineering	590,148	l l
Civil engineering	484,504	l I
Electrical, electronics, and communications engineering	2,374,835	l l
Industrial and manufacturing engineering	2,952,700	l I
Mechanical engineering	848,194	I I
Metallurgical and materials engineering	825,654	I
Other engineering	16,982,585	17.005.0
Other fields	14,440,187	17,925,8
Business management and business administration	636,755	
Communication and communications technologies	472,638	l l
Education research	109,816	l l
Humanities	0	
Law	151	l
Social work	0	l
Visual and performing arts	0	1

NA = not available; data were not collected at that level for that fiscal year.

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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.