

**Table A-18. Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2024**

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	3,603,337	13,446	0.4	1,792,904	7,949	0.4
All science and engineering	3,512,875	141,949	4.0	1,772,027	59,654	3.4
Computer and information sciences	162,407	12,851	7.9	87,271	4,135	4.7
Geosciences, atmospheric sciences, and ocean sciences	140,385	4,261	3.0	81,949	855	1.0
Atmospheric science and meteorology	20,226	599	3.0	14,856	93	0.6
Geological and earth sciences	56,744	2,881	5.1	24,937	603	2.4
Ocean sciences and marine sciences	52,127	577	1.1	33,295	91	0.3
Geosciences, atmospheric sciences, and ocean sciences nec	11,288	204	1.8	8,861	68	0.8
Life sciences	1,443,952	26,539	1.8	628,974	16,361	2.6
Agricultural sciences	195,527	1,639	0.8	68,921	1,134	1.6
Biological and biomedical sciences	652,514	14,606	2.2	310,571	9,259	3.0
Health sciences	519,405	10,191	2.0	217,379	5,898	2.7
Natural resources and conservation	30,369	84	0.3	17,006	54	0.3
Life sciences nec	46,137	19	0.0	15,097	16	0.1
Mathematics and statistics	20,492	10,033	49.0	6,312	3,587	56.8
Physical sciences	555,564	16,518	3.0	322,049	6,071	1.9
Astronomy and astrophysics	47,636	1,407	3.0	28,851	492	1.7
Chemistry	208,766	1,664	0.8	102,423	815	0.8
Materials science	24,602	0	0.0	13,600	0	0.0
Physics	238,282	11,023	4.6	153,201	4,343	2.8
Physical sciences nec	36,278	2,424	6.7	23,974	421	1.8
Psychology	16,232	157	1.0	7,450	102	1.4
Social sciences	27,612	1,178	4.3	10,380	573	5.5
Anthropology	3,793	24	0.6	1,028	6	0.6
Economics	3,559	342	9.6	764	144	18.8
Political science and government	3,037	33	1.1	1,722	9	0.5
Sociology, demography, and population studies	2,775	329	11.9	418	93	22.2
Social sciences nec	14,448	450	3.1	6,448	321	5.0
Sciences nec	60,564	1,556	2.6	14,336	687	4.8
Engineering	1,085,667	68,856	6.3	613,306	27,283	4.4
Aerospace, aeronautical, and astronautical engineering	111,295	10,005	9.0	75,079	3,501	4.7
Bioengineering and biomedical engineering	109,468	3,879	3.5	52,326	1,632	3.1
Chemical engineering	89,832	1,331	1.5	50,901	533	1.0
Civil engineering	58,584	608	1.0	24,931	319	1.3
Electrical, electronic, and communications engineering	267,133	34,541	12.9	171,451	14,046	8.2
Industrial and manufacturing engineering	42,186	3,648	8.6	28,593	1,276	4.5
Mechanical engineering	144,205	12,074	8.4	85,957	4,478	5.2
Metallurgical and materials engineering	99,026	1,145	1.2	61,877	933	1.5
Engineering nec	163,938	1,625	1.0	62,191	565	0.9
All non-science and engineering	90,462	580	0.6	20,877	207	1.0
Business management and business administration	14,997	36	0.2	2,800	3	0.1

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	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Communication and communications technologies	4,596	8	0.2	925	4	0.4
Education	9,143	276	3.0	3,136	173	5.5
Humanities	17,776	124	0.7	995	6	0.6
Law	566	5	0.9	43	2	4.7
Social work	635	11	1.7	178	6	3.4
Visual and performing arts	3,949	57	1.4	652	3	0.5
Non-science and engineering nec	38,800	63	0.2	12,148	10	0.1

nec = not elsewhere classified.

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.