Table A-15. Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2025

(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	124,273,460	72,496	0.1	67,362,332	35,650	0.1
All science and engineering	116,101,446	1,113,748	1.0	65,385,830	229,416	0.4
Computer and information sciences	4,256,408	29,285	0.7	2,753,468	2,464	0.1
Geosciences, atmospheric sciences, and ocean sciences	4,572,510	33,326	0.7	2,956,782	1,421	0.0
Atmospheric science and meteorology	777,060	40,175	5.2	609,567	34,269	5.6
Geological and earth sciences	1,738,554	100,357	5.8	1,063,849	68,449	6.4
Ocean sciences and marine sciences	1,529,444	58,221	3.8	945,050	48,860	5.2
Geosciences, atmospheric sciences, and ocean sciences nec	527,452	43,094	8.2	338,316	15,590	4.6
Life sciences	69,604,386	830,659	1.2	37,411,664	198,914	0.5
Agricultural sciences	5,078,093	13,398	0.3	1,799,571	9,399	0.5
Biological and biomedical sciences	21,297,808	198,273	0.9	12,643,014	39,613	0.3
Health sciences	40,354,124	733,421	1.8	21,625,610	228,817	1.1
Natural resources and conservation	1,249,614	2,074	0.2	565,327	726	0.1
Life sciences nec	1,624,747	1,102	0.1	778,142	569	0.1
Mathematics and statistics	1,324,154	12,390	0.9	839,164	1,186	0.1
Physical sciences	7,719,392	35,276	0.5	4,978,613	6,766	0.1
Astronomy and astrophysics	1,064,681	2,521	0.2	689,272	79	0.0
Chemistry	2,515,371	10,400	0.4	1,494,052	2,594	0.2
Materials science	374,831	1,534	0.4	234,523	0	0.0
Physics	3,330,937	18,345	0.6	2,347,179	3,465	0.1
Physical sciences nec	433,572	2,476	0.6	213,587	628	0.3
Psychology	1,852,944	15,242	0.8	1,074,205	1,694	0.2
Social sciences	4,176,188	35,129	0.8	1,412,307	10,943	0.8
Anthropology	189,394	715	0.4	62,290	77	0.1
Economics	797,951	7,342	0.9	229,266	2,325	1.0
Political science and government	643,988	2,055	0.3	129,072	96	0.1
Sociology, demography, and population studies	833,730	8,503	1.0	362,920	387	0.1
Social sciences nec	1,711,125	16,514	1.0	628,759	8,058	1.3
Sciences nec	1,373,128	8,137	0.6	551,843	1	0.0
Engineering	21,222,336	114,304	0.5	13,407,784	6,027	0.0
Aerospace, aeronautical, and astronautical engineering	2,233,532	16,217	0.7	1,749,587	8,058	0.5
Bioengineering and biomedical engineering	2,255,457	17,904	0.8	1,421,973	65	0.0
Chemical engineering	1,484,418	3,032	0.2	872,910	0	0.0
Civil engineering	2,247,863	28,076	1.2	1,087,102	8,389	0.8
Electrical, electronic, and communications engineering	4,944,736	73,239	1.5	3,641,610	37,512	1.0
Industrial and manufacturing engineering	811,930	2,699	0.3	565,538	73	0.0
Mechanical engineering	2,796,154	37,717	1.3	1,898,787	18,852	1.0
Metallurgical and materials engineering	1,234,260	6,318	0.5	816,251	526	0.1
Engineering nec	3,213,986	9,243	0.3	1,354,026	467	0.0
All non-science and engineering	8,172,014	39,903	0.5	1,976,502	2,443	0.1
Business management and business administration	1,538,310	3,998	0.3	129,917	389	0.3

Table A-15. Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2025

(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
Communication and communications technologies	282,659	542	0.2	63,215	43	0.1
Education	2,276,769	7,941	0.3	995,005	444	0.0
Humanities	992,995	18,232	1.8	66,898	1,111	1.7
Law	445,007	601	0.1	46,520	0	0.0
Social work	451,233	2,146	0.5	199,463	121	0.1
Visual and performing arts	331,156	1,379	0.4	21,821	12	0.1
Non-science and engineering nec	1,853,885	5,064	0.3	453,663	323	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 2024. Institutions reporting less than $1 million in total R&D expenditures in FY 2024 completed a shorter version of the survey form in FY 2025 that did not include this question.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2025.