TABLE A-18
Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2020 (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	2,588,624	8,036	0.3	1,201,365	4,323	0.4
All science and engineering	2,528,918	96,260	3.8	1,195,886	39,600	3.3
Computer and information sciences	164,385	9,387	5.7	113,808	2,562	2.3
Geosciences, atmospheric sciences, and ocean sciences	136,963	3,359	2.5	91,416	929	1.
Atmospheric science and meteorology	20,841	661	3.2	16,572	150	0.0
Geological and earth sciences	52,636	1,496	2.8	29,953	485	1.0
Ocean sciences and marine sciences	57,836	1,155	2.0	42,700	263	0.0
Geosciences, atmospheric sciences, and ocean sciences nec	5,650	47	0.8	2,191	31	1.
Life sciences	990,630	19,030	1.9	373,658	11,729	3.
Agricultural sciences	98,162	282	0.3	24,075	157	0.7
Biological and biomedical sciences	455,430	10,842	2.4	193,815	6,868	3.
Health sciences	382,382	7,826	2.0	135,695	4,687	3.
Natural resources and conservation	11,673	48	0.4	4,225	13	0.3
Life sciences nec	42,983	32	0.1	15,848	4	0.0
Mathematics and statistics	7,907	3,507	44.4	4,158	1,280	30.
Physical sciences	409,342	16,685	4.1	256,469	6,625	2.
Astronomy and astrophysics	35,304	4,196	11.9	18,802	1,963	10.
Chemistry	136,354	1,102	0.8	75,360	663	0.
Materials science	19,654	199	1.0	11,453	199	1.
Physics	184,112	8,866	4.8	125,708	3,434	2.
Physical sciences nec	33,918	2,322	6.8	25,146	366	1.
Psychology	22,078	495	2.2	8,666	260	3.
Social sciences	14,414	490	3.4	2,767	224	8.
Anthropology	2,843	5	0.2	145	1	0.
Economics	2,422	33	1.4	167	6	3.
Political science and government	886	21	2.4	140	2	1.
Sociology, demography, and population studies	2,108	225	10.7	906	127	14.
Social sciences nec	6,155	206	3.3	1,409	88	6.:
Sciences nec	41,326	1,546	3.7	9,128	547	6.
Engineering	741,873	41,761	5.6	335,816	15,444	4.
Aerospace, aeronautical, and astronautical engineering	62,078	4,759	7.7	37,169	1,575	4.:
Bioengineering and biomedical engineering	56,178	1,284	2.3	26,692	715	2.
Chemical engineering	53,400	600	1.1	23,898	258	1.
Civil engineering	39,656	319	0.8	17,784	131	0.
Electrical, electronic, and communications engineering	138,659	19,213	13.9	88,821	6,458	7.
Industrial and manufacturing engineering	22,505	3,511	15.6	15,311	1,150	7.
Mechanical engineering	95,127	8,688	9.1	52,675	4,001	7.
Metallurgical and materials engineering	58,883	694	1.2	35,461	264	0.
Engineering nec	215,387	2,695	1.3	38,005	892	2.
All non-science and engineering	59,706	893	1.5	5,479	150	2.

TABLE A-18
Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2020 (Dollars in thousands)

	Total			Federally financed			
R&D field	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total	
Business management and business administration	4,885	137	2.8	165	20	12.1	
Communication and communications technologies	1,208	10	0.8	106	1	0.9	
Education	8,660	301	3.5	937	65	6.9	
Humanities	4,108	154	3.7	310	33	10.6	
Law	667	32	4.8	106	0	0.0	
Social work	1,177	6	0.5	103	4	3.9	
Visual and performing arts	1,768	19	1.1	320	0	0.0	
Non-science and engineering nec	37,233	234	0.6	3,432	27	0.8	

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 2019. Institutions reporting less than \$1 million in total R&D expenditures in FY 2019 completed a shorter version of the survey form in FY 2020 that did not include this question.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.