

TABLE A-14. Imputed amounts for total and federally financed higher education R&D expenditures, by R&D field: FY 2010
(Dollars in millions)

R&D field	Total			Federally financed		
	All separately budgeted R&D expenditures	Imputed amount	Imputed amount as % of total	All separately budgeted R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	61,235	64	0.1	37,488	48	0.1
All science and engineering	58,338	114	0.2	36,503	68	0.2
Computer sciences	1,658	5	0.3	1,175	4	0.4
Environmental sciences	2,990	3	0.1	2,014	2	0.1
Atmospheric sciences	428	10	2.3	338	9	2.8
Earth sciences	1,085	5	0.5	736	4	0.5
Oceanography	1,022	15	1.5	667	15	2.2
Environmental sciences, nec	455	24	5.2	273	21	7.8
Life sciences	34,903	59	0.2	21,686	34	0.2
Agricultural sciences	2,984	0	0.0	956	0	0.0
Biological sciences	10,947	19	0.2	7,564	11	0.1
Medical sciences	19,164	24	0.1	12,066	11	0.1
Life sciences, nec	1,807	16	0.9	1,100	12	1.1
Mathematical sciences	599	7	1.2	419	3	0.6
Physical sciences	4,625	10	0.2	3,380	5	0.2
Astronomy	573	1	0.1	405	0	0.1
Chemistry	1,751	6	0.3	1,201	3	0.3
Physics	2,003	3	0.1	1,556	1	0.1
Physical sciences, nec	298	0	0.1	218	0	0.1
Psychology	1,077	3	0.3	760	2	0.2
Social sciences	1,993	12	0.6	897	8	0.8
Economics	353	4	1.0	127	1	0.7
Political sciences	373	7	1.9	155	7	4.4
Sociology	416	1	0.3	223	0	0.2
Social sciences, nec	852	9	1.1	392	5	1.3
Sciences, nec	1,150	0	0.0	439	0	0.0
Engineering	9,344	15	0.2	5,732	11	0.2
Aeronautical/astronautical engineering	625	100	16.0	466	87	18.6
Bioengineering/biomedical engineering	741	24	3.3	483	20	4.2
Chemical engineering	797	17	2.2	419	16	3.9
Civil engineering	1,064	13	1.2	459	11	2.4
Electrical engineering	2,012	228	11.4	1,373	221	16.1
Mechanical engineering	1,434	159	11.1	954	157	16.5
Metallurgical/materials engineering	908	1	0.1	437	1	0.2
Engineering, nec	1,762	254	14.4	1,141	248	21.7
All non-science and engineering	2,897	9	0.3	984	3	0.3
Business and management	360	1	0.3	84	0	0.1
Communications, journalism, and library science	157	0	0.2	60	0	0.0
Education	987	5	0.5	537	2	0.3
Humanities	259	2	0.6	58	1	1.0
Law	96	0	0.0	19	0	0.0

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Social work	175	0	0.0	94	0	0.0
Visual and performing arts	64	0	0.2	5	0	0.0
Non-science and engineering, nec	798	2	0.2	127	0	0.3

nec = not elsewhere classified.

NOTES: Imputation rate at total level is lower than imputation rates at R&D field levels because some institutions could provide totals but not R&D field details. Because of rounding, detail may not add to total. Percentages calculated on unrounded numbers.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2010.