

TABLE 7. Federally financed higher education R&D expenditures, by federal agency and R&D field: FY 2011  
(Dollars in thousands)

Field	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
All R&D fields	40,764,823	4,831,041	1,868,521	22,988,091	1,430,307	5,133,663	1,006,322	3,506,878
Science	33,381,078	2,344,000	1,120,117	22,126,463	976,880	3,807,694	947,271	2,058,653
Computer sciences	1,288,912	437,529	53,828	111,800	19,186	531,282	2,260	133,027
Environmental sciences	2,188,313	233,382	159,486	80,485	316,078	784,550	70,862	543,470
Atmospheric sciences	384,761	43,092	28,920	1,430	119,019	80,129	5,382	106,789
Earth sciences	798,560	50,668	92,566	11,721	156,819	295,610	41,791	149,385
Oceanography	705,174	87,802	17,230	10,331	22,567	338,568	6,595	222,081
Environmental sciences, nec	299,818	51,820	20,770	57,003	17,673	70,243	17,094	65,215
Life sciences	23,680,459	792,851	229,095	20,221,739	89,221	766,755	808,485	772,313
Agricultural sciences	1,041,298	21,907	65,392	97,197	8,200	106,110	566,731	175,761
Biological sciences	8,227,188	263,095	118,329	6,808,505	40,285	566,587	194,894	235,493
Medical sciences	13,199,569	458,576	33,308	12,309,770	39,572	60,705	27,251	270,387
Life sciences, nec	1,212,404	49,273	12,066	1,006,267	1,164	33,353	19,609	90,672
Mathematical sciences	458,568	77,979	18,089	67,467	3,551	247,625	2,271	41,586
Physical sciences	3,538,267	546,767	616,746	622,184	513,489	1,102,378	6,984	129,719
Astronomy	408,153	19,814	9,831	997	266,787	99,575	7	11,142
Chemistry	1,244,103	149,631	138,768	538,740	16,483	357,388	4,281	38,812
Physics	1,661,831	328,578	433,831	55,344	197,808	578,267	1,133	66,870
Physical sciences, nec	224,180	48,744	34,316	27,103	32,411	67,148	1,563	12,895
Psychology	816,492	52,194	858	598,157	16,398	78,966	4,282	65,637
Social sciences	947,386	96,826	10,549	319,662	11,695	153,257	47,381	308,016
Economics	150,391	4,338	3,433	37,314	332	27,311	28,237	49,426
Political sciences	148,672	28,365	1,416	38,896	400	27,619	1,790	50,186
Sociology	231,507	9,214	1,743	119,260	491	38,162	4,733	57,904
Social sciences, nec	416,816	54,909	3,957	124,192	10,472	60,165	12,621	150,500
Sciences, nec	462,681	106,472	31,466	104,969	7,262	142,881	4,746	64,885
Engineering	6,276,519	2,404,003	731,042	644,972	438,892	1,130,038	48,128	879,444
Aeronautical/astronautical engineering	502,959	262,246	19,152	3,115	129,791	22,755	70	65,830
Bioengineering/biomedical engineering	513,030	66,849	11,303	349,263	5,184	52,733	7,753	19,945
Chemical engineering	495,907	125,011	138,408	74,774	7,476	117,024	6,393	26,821
Civil engineering	545,002	52,963	54,306	18,037	14,262	135,921	7,096	262,417
Electrical engineering	1,513,764	799,913	92,925	74,284	71,549	331,452	2,206	141,435
Mechanical engineering	1,031,810	470,466	178,049	51,798	63,802	158,741	2,152	106,802
Metallurgical/materials engineering	455,275	187,764	90,391	18,296	8,075	110,334	889	39,526
Engineering, nec	1,218,772	438,791	146,508	55,405	138,753	201,078	21,569	216,668
Non-S&E	1,107,226	83,038	17,362	216,656	14,535	195,931	10,923	568,781
Business and management	101,419	35,389	2,207	5,882	1,015	15,518	1,689	39,719
Communications, journalism, and library science	52,678	3,352	356	23,848	0	12,177	529	12,416
Education	624,750	19,757	2,568	65,357	11,340	134,485	3,106	388,137
Humanities	58,696	6,677	62	6,544	427	11,062	202	33,722
Law	27,467	1,324	288	5,054	1,265	1,770	237	17,529
Social work	103,841	1,326	34	85,449	0	481	3,294	13,257
Visual and performing arts	6,502	843	465	761	11	1,273	67	3,082
Non-S&E, nec	131,873	14,370	11,382	23,761	477	19,165	1,799	60,919

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; nec = not elsewhere classified; NSF = National Science Foundation; S&E = science and engineering; USDA = U.S. Department of Agriculture.

<sup>a</sup> Includes all other agencies reported.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2011.