

Appendix table 5-4

Federally financed higher education R&D expenditures, by federal agency and R&D field: FY 2012

(Dollars in thousands)

Field	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All R&D fields	40,130,460	4,923,713	1,952,698	21,895,249	1,330,780	5,270,564	1,093,571	3,663,885
Science	32,489,286	2,417,572	1,132,873	21,014,420	912,371	3,869,090	1,029,265	2,113,695
Computer sciences	1,357,726	470,766	55,172	98,645	19,131	568,461	1,477	144,074
Environmental sciences	2,197,709	212,153	173,982	83,598	301,117	792,070	67,428	567,361
Atmospheric sciences	388,814	40,346	34,684	1,480	109,679	88,863	5,905	107,857
Earth sciences	817,223	51,033	89,468	12,587	151,512	308,424	38,005	166,194
Oceanography	670,188	80,767	13,314	10,043	22,355	315,006	4,837	223,866
Environmental sciences nec	321,484	40,007	36,516	59,488	17,571	79,777	18,681	69,444
Life sciences	22,723,650	845,828	226,836	19,136,167	79,490	766,888	881,694	786,747
Agricultural sciences	1,135,807	30,626	70,711	94,636	8,047	113,546	616,981	201,260
Biological sciences	7,720,672	252,320	115,444	6,317,189	34,893	571,466	214,812	214,548
Medical sciences	12,670,344	509,592	25,146	11,733,118	35,714	56,667	25,586	284,521
Life sciences nec	1,196,827	53,290	15,535	991,224	836	25,209	24,315	86,418
Mathematical sciences	490,576	88,386	17,730	75,941	3,341	261,358	4,329	39,491
Physical sciences	3,483,328	550,413	621,797	567,599	476,067	1,116,277	6,985	144,190
Astronomy	534,547	23,342	10,409	2,211	299,710	188,798	0	10,077
Chemistry	1,212,583	151,341	157,523	490,987	15,619	356,079	3,219	37,815
Physics	1,543,999	334,315	430,547	54,183	130,332	513,406	1,288	79,928
Physical sciences nec	192,199	41,415	23,318	20,218	30,406	57,994	2,478	16,370
Psychology	866,254	51,636	794	616,031	15,813	82,446	7,165	92,369
Social sciences	921,095	97,051	11,705	319,767	14,361	142,987	53,105	282,119
Economics	144,431	6,272	4,007	33,906	482	25,888	28,417	45,459
Political sciences	142,803	28,019	2,474	39,542	281	23,305	2,312	46,870
Sociology	247,659	11,130	1,214	125,578	576	37,836	7,388	63,937
Social sciences nec	386,202	51,630	4,010	120,741	13,022	55,958	14,988	125,853
Sciences nec	448,948	101,339	24,857	116,672	3,051	138,603	7,082	57,344
Engineering	6,446,144	2,425,239	795,573	650,533	408,725	1,181,420	54,530	930,124
Aeronautical/astronautical	501,724	272,501	18,348	3,100	118,746	21,191	17	67,821
Bioengineering/biomedical	551,343	82,749	14,846	362,453	4,337	60,350	8,648	17,960
Chemical	505,344	121,428	140,637	65,536	7,466	126,164	6,597	37,516
Civil	571,496	54,128	65,269	21,141	13,606	142,686	8,369	266,297
Electrical	1,603,171	842,588	103,935	72,143	62,224	356,761	1,890	163,630
Mechanical	1,036,311	440,806	195,862	50,068	64,089	170,692	1,992	112,802
Metallurgical/materials	461,763	187,181	101,287	22,223	8,053	111,814	1,261	29,944
Engineering nec	1,214,992	423,858	155,389	53,869	130,204	191,762	25,756	234,154
Non-S&E	1,195,030	80,902	24,252	230,296	9,684	220,054	9,776	620,066
Business and management	96,244	25,835	3,265	6,952	491	14,643	2,100	42,958
Communications, journalism, and library science	53,148	5,488	153	22,279	0	9,345	446	15,437
Education	685,505	21,256	2,448	76,456	5,697	155,378	2,215	422,055
Humanities	68,428	6,620	520	6,022	190	13,305	183	41,588
Law	24,553	691	252	4,870	889	1,484	20	16,347
Social work	108,992	1,682	7	92,572	1	924	1,675	12,131
Visual and performing arts	10,477	651	3,552	497	0	2,197	69	3,511
Non-S&E nec	147,683	18,679	14,055	20,648	2,416	22,778	3,068	66,039

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; USDA = U.S. Department of Agriculture.

^a Includes all other agencies reported.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2012.