

Appendix table 5-5

Higher education R&D expenditures, by source of funds and R&D field: FY 2012

(Dollars in thousands)

Field	All R&D expenditures	Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All R&D fields	65,774,524	40,130,460	3,704,365	13,673,539	3,281,809	4,033,233	951,118
Science	51,963,778	32,489,286	2,757,482	10,247,426	2,344,693	3,347,940	776,951
Computer sciences	1,821,482	1,357,726	43,688	270,596	82,166	37,182	30,124
Environmental sciences	3,172,613	2,197,709	167,243	528,818	128,925	89,179	60,739
Atmospheric sciences	476,210	388,814	18,041	51,449	8,455	6,234	3,217
Earth sciences	1,166,960	817,223	54,320	195,308	58,544	30,290	11,275
Oceanography	1,021,715	670,188	52,519	191,738	38,279	33,678	35,313
Environmental sciences nec	507,728	321,484	42,363	90,323	23,647	18,977	10,934
Life sciences	37,215,163	22,723,650	2,133,890	7,245,617	1,829,924	2,696,368	585,714
Agricultural sciences	3,296,327	1,135,807	789,901	1,043,488	136,412	135,344	55,375
Biological sciences	11,595,919	7,720,672	553,331	2,125,770	352,943	748,491	94,712
Medical sciences	20,357,802	12,670,344	719,200	3,581,396	1,304,616	1,672,521	409,725
Life sciences nec	1,965,115	1,196,827	71,458	494,963	35,953	140,012	25,902
Mathematical sciences	674,932	490,576	30,130	124,092	7,828	20,441	1,865
Physical sciences	4,721,131	3,483,328	84,821	815,688	123,740	171,214	42,340
Astronomy	706,133	534,547	1,510	111,641	12,805	37,891	7,739
Chemistry	1,750,048	1,212,583	42,353	334,987	63,278	76,976	19,871
Physics	1,996,446	1,543,999	32,356	325,005	40,113	47,017	7,956
Physical sciences nec	268,504	192,199	8,602	44,055	7,544	9,330	6,774
Psychology	1,187,582	866,254	33,600	206,158	20,486	52,803	8,281
Social sciences	2,055,807	921,095	164,970	660,906	52,256	223,899	32,681
Economics	383,224	144,431	49,390	130,937	13,108	38,054	7,304
Political sciences	391,714	142,803	20,930	146,363	7,608	65,414	8,596
Sociology	459,757	247,659	23,397	120,508	9,856	52,384	5,953
Social sciences nec	821,112	386,202	71,253	263,098	21,684	68,047	10,828
Sciences nec	1,115,068	448,948	99,140	395,551	99,368	56,854	15,207
Engineering	10,302,305	6,446,144	682,971	1,838,201	856,703	349,115	129,171
Aeronautical/astronautical	662,221	501,724	16,867	70,150	66,593	3,363	3,524
Bioengineering/biomedical	878,633	551,343	54,219	162,753	45,673	57,350	7,295
Chemical	908,969	505,344	52,441	174,233	132,042	34,232	10,677
Civil	1,234,326	571,496	233,321	278,855	90,517	40,156	19,981
Electrical	2,314,842	1,603,171	86,073	342,288	172,006	80,889	30,415
Mechanical	1,550,936	1,036,311	66,470	241,975	145,364	43,248	17,568
Metallurgical/materials	756,843	461,763	53,078	143,637	63,598	25,142	9,625
Engineering nec	1,995,535	1,214,992	120,502	424,310	140,910	64,735	30,086
Non-S&E	3,508,441	1,195,030	263,912	1,587,912	80,413	336,178	44,996
Business and management	441,705	96,244	36,993	232,494	25,718	42,083	8,173
Communications, journalism, and library science	159,436	53,148	6,056	74,056	3,681	20,999	1,496
Education	1,229,101	685,505	92,111	303,047	23,703	119,463	5,272
Humanities	340,628	68,428	10,186	202,307	4,649	48,996	6,062
Law	131,662	24,553	7,613	67,840	3,303	24,087	4,266
Social work	199,097	108,992	18,450	46,922	1,079	22,308	1,346
Visual and performing arts	85,037	10,477	4,563	58,586	1,564	8,173	1,674
Non-S&E nec	921,775	147,683	87,940	602,660	16,716	50,069	16,707

nec = not elsewhere classified.

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