

TABLE 6. Higher education R&D expenditures, by source of funds and R&D field: FY 2011  
(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	65,073,411	40,764,823	3,819,470	12,444,705	3,162,464	3,840,381	1,041,568
Science	51,845,312	33,381,078	2,861,752	9,282,390	2,257,617	3,215,425	847,050
Computer sciences	1,734,897	1,288,912	64,085	240,019	76,137	44,407	21,337
Environmental sciences	3,167,464	2,188,313	175,574	511,710	135,604	96,345	59,918
Atmospheric sciences	480,814	384,761	14,275	56,747	11,114	7,310	6,607
Earth sciences	1,141,857	798,560	56,709	182,242	60,169	30,132	14,045
Oceanography	1,049,379	705,174	54,089	184,369	38,198	38,864	28,685
Environmental sciences, nec	495,414	299,818	50,501	88,352	26,123	20,039	10,581
Life sciences	37,232,175	23,680,459	2,148,116	6,427,484	1,761,675	2,565,460	648,981
Agricultural sciences	3,128,593	1,041,298	805,005	937,572	141,424	134,227	69,067
Biological sciences	11,801,998	8,227,188	526,812	1,876,128	339,156	689,699	143,015
Medical sciences	20,356,311	13,199,569	733,180	3,190,067	1,243,311	1,589,329	400,855
Life sciences, nec	1,945,273	1,212,404	83,119	423,717	37,784	152,205	36,044
Mathematical sciences	636,353	458,568	31,066	114,567	10,112	14,971	7,069
Physical sciences	4,779,092	3,538,267	106,890	796,258	123,285	170,081	44,311
Astronomy	582,187	408,153	11,139	104,517	18,550	32,487	7,341
Chemistry	1,785,614	1,244,103	45,915	333,180	64,722	79,508	18,186
Physics	2,108,596	1,661,831	39,891	318,581	31,820	41,675	14,798
Physical sciences, nec	302,695	224,180	9,945	39,980	8,193	16,411	3,986
Psychology	1,119,167	816,492	40,128	189,974	16,171	46,980	9,422
Social sciences	2,044,534	947,386	193,197	587,214	65,730	214,392	36,615
Economics	389,112	150,391	55,241	125,741	15,965	34,498	7,276
Political sciences	363,913	148,672	23,137	114,841	9,903	58,485	8,875
Sociology	425,285	231,507	23,759	109,573	8,428	46,454	5,564
Social sciences, nec	866,224	416,816	91,060	237,059	31,434	74,955	14,900
Sciences, nec	1,131,630	462,681	102,696	415,164	68,903	62,789	19,397
Engineering	10,045,491	6,276,519	701,532	1,765,564	820,331	339,392	142,153
Aeronautical/astronautical engineering	671,715	502,959	17,936	73,526	64,770	4,221	8,303
Bioengineering/biomedical engineering	814,659	513,030	58,390	145,521	38,001	52,222	7,495
Chemical engineering	926,658	495,907	62,066	178,757	126,042	45,532	18,354
Civil engineering	1,211,376	545,002	213,046	293,069	91,429	47,146	21,684
Electrical engineering	2,208,999	1,513,764	107,052	323,568	165,147	71,480	27,988
Mechanical engineering	1,555,656	1,031,810	67,131	251,914	143,837	45,745	15,219
Metallurgical/materials engineering	738,134	455,275	57,515	133,206	64,470	21,123	6,545
Engineering, nec	1,918,294	1,218,772	118,396	366,003	126,635	51,923	36,565
Non-S&E	3,182,608	1,107,226	256,186	1,396,751	84,516	285,564	52,365
Business and management	394,541	101,419	47,465	177,775	24,514	33,496	9,872
Communications, journalism, and library science	148,114	52,678	5,974	61,178	4,419	21,671	2,194
Education	1,104,340	624,750	88,468	258,465	21,298	101,233	10,126
Humanities	296,444	58,696	13,215	167,256	6,438	43,195	7,644
Law	119,128	27,467	7,715	52,082	4,968	23,990	2,906
Social work	190,775	103,841	19,732	42,966	663	19,858	3,715
Visual and performing arts	72,729	6,502	5,197	49,656	2,843	7,026	1,505
Non-S&E, nec	856,537	131,873	68,420	587,373	19,373	35,095	14,403

nec = not elsewhere classified; S&E = science and engineering.

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