



APPENDIX TABLE 5-6

Higher education R&D expenditures at top 100 R&D-performing institutions, ranked by FY 2015 R&D expenditures: FYs 2007–16

(Thousands of dollars)

Rank	Institution	Institutional control	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
	All institutions		51,590,017	54,113,750	57,288,415	61,286,610	65,274,393	65,729,007	67,013,138	67,196,537	68,566,890	71,833,308
1	Johns Hopkins U. ^a	Private	1,566,392	1,691,469	1,866,243	2,004,482	2,145,308	2,106,185	2,168,568	2,242,478	2,305,679	2,431,180
2	U. Michigan, Ann Arbor	Public	NA	NA	NA	1184445	1,279,123	1,322,711	1,375,117	1,349,262	1,369,278	1,436,448
3	U. Pennsylvania	Private	668105	740410	758159	836322	886,036	847,077	828,422	828,350	864,068	1,296,429
4	U. California, San Francisco	Public	842,840	885,182	947,697	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261
5	U. Washington, Seattle	Public	NA	NA	NA	1,022,740	1,148,533	1,109,008	1,192,513	1,176,340	1,180,563	1,277,679
6	U. Wisconsin-Madison	Public	912,219	944,626	1,013,649	1,029,295	1,111,642	1,169,779	1,123,501	1,108,564	1,069,077	1,157,680
7	U. California, San Diego	Public	801,823	844,877	883,653	943,219	1,009,378	1,073,864	1,075,554	1,067,388	1,101,466	1,087,117
8	Harvard U.	Private	493,920	505,832	525,452	583,361	649,774	799,432	1,012,766	933,975	1,013,753	1,077,253
9	Stanford U.	Private	702,497	698,883	717,022	839,839	907,971	903,238	945,450	959,247	1,022,551	1,066,269
10	Duke U.	Private	783,784	769,893	807,652	983,289	1,022,207	1,009,911	992,821	1,036,813	1,036,698	1,055,778
11	U. North Carolina, Chapel Hill	Public	484,160	530,515	651,308	755,284	869,174	884,791	973,007	989,766	966,781	1,045,338
12	U. California, Los Angeles	Public	854,497	904,840	923,916	936,995	982,357	1,003,375	966,659	948,197	1,021,227	1,037,528
13	Cornell U.	Private	645,791	655,641	672,692	749,721	781,651	802,387	845,184	883,292	954,412	974,199



Rank	Institution	Institutional control	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
14	Massachusetts Institute of Technology	Private	637621	682058	759649	677138	723,610	824,130	900,524	908,017	930,719	946,159
15	U. Minnesota, Twin Cities	Public	NA	NA	NA	786,074	847,419	826,173	858,378	876,870	880,618	910,181
16	Texas A&M U., College Station and Health Science Center	Public	565,631	604,526	651,923	689,624	705,720	693,421	820,015	854,214	866,678	892,718
17	U. Pittsburgh, Pittsburgh	Public	564,994	599,800	629,088	822,491	899,386	866,638	872,736	856,806	861,205	889,793
18	Yale U.	Private	451,318	490,913	512,997	623,510	656,967	656,555	788,784	772,840	803,004	881,765
19	U. Texas M. D. Anderson Cancer Center	Public	496,539	558,503	578,788	599,529	663,279	685,814	718,096	794,980	833,406	852,095
20	Columbia U. in the City of New York	Private	545,996	548,704	604,660	807,235	878,900	889,487	889,188	890,642	868,159	837,312
21	Pennsylvania State U., University Park and Hershey Medical Center	Public	NA	NA	NA	770,449	794,846	797,679	837,880	800,773	791,031	825,561
22	Ohio State U.	Public	737324	726302	743591	755194	832,126	766,513	793,373	815,075	817,881	818,464
23	New York U.	Private	319,728	337,093	338,839	365,944	430,752	458,645	471,909	523,623	602,041	809,739
24	U. Florida	Public	635,956	632,680	644,241	681,548	739,931	696,985	695,063	708,526	739,522	791,294
25	Georgia Institute of Technology	Public	476,138	524,888	565,487	615,833	655,375	688,905	730,488	725,550	765,370	790,706
26	U. California, Berkeley	Public	570,252	620,374	682,568	694,049	707,945	730,348	727,002	744,343	788,505	774,255



Rank	Institution	Institutional control	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
27	U. California, Davis	Public	604,512	647,691	687,690	679,915	707,896	713,292	725,734	711,721	721,077	741,892
28	Washington U., Saint Louis	Private	575,846	566,378	630,141	695,974	725,039	706,410	684,847	664,752	694,069	741,115
29	Northwestern U.	Private	473,060	518,572	555,510	575,078	618,980	631,078	639,781	645,333	656,167	713,491
30	U. Southern California	Private	528,466	540,366	556,807	592,791	603,294	623,544	645,636	687,222	691,031	702,866
31	Vanderbilt U.	Private	415,750	444,873	455,835	504,959	566,031	560,466	571,603	683,890	647,816	640,842
32	Rutgers, State U. New Jersey, New Brunswick	Public	NA	NA	NA	428,432	432,306	434,901	493,320	644,116	628,613	630,212
33	U. Illinois, Urbana-Champaign	Public	492,347	518,333	581,805	515,133	545,669	583,754	743,487	621,733	639,817	625,180
34	U. Texas, Austin	Public	502,786	553,051	566,166	589,502	632,171	621,538	634,132	585,251	604,376	621,692
35	Emory U.	Private	412,503	463,317	459,067	529,453	547,316	565,766	575,943	558,600	585,210	614,527
36	Michigan State U.	Public	395,611	392,242	405,961	431,373	454,248	507,061	515,707	526,906	558,248	613,369
37	Purdue U., West Lafayette	Public	NA	NA	NA	548,980	578,231	602,501	595,739	564,923	558,611	606,302
38	U. Arizona	Public	533,450	547,197	566,334	586,647	610,565	625,365	629,466	588,088	606,219	604,464
39	Baylor C. of Medicine	Private	438,280	449,301	449,031	447,874	466,061	474,700	508,799	496,314	520,220	572,527
40	Icahn School of Medicine at Mt. Sinai	Private	269,451	296,380	318,407	370,666	405,527	400,680	428,654	463,429	508,353	540,296
41	U. Maryland, College Park	Public	371,696	405,569	417,365	451,415	495,382	502,406	491,998	485,051	505,699	539,388
42	U. Alabama, Birmingham	Public	352,777	405,731	435,460	489,845	503,698	453,779	440,796	428,563	516,229	537,825



Rank	Institution	Institutional control	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
43	Virginia Polytechnic Institute and State U.	Public	370,805	375,773	399,433	398,169	450,058	454,417	496,169	513,149	504,282	521,773
44	Arizona State U.	Public	238,054	273,532	311,461	329,345	355,215	385,959	405,154	426,651	458,412	518,239
45	Indiana U., Bloomington	Public	NA	NA	NA	177,520	184,096	184,486	197,897	206,039	485,076	508,766
46	U. South Florida, Tampa	Public	NA	NA	NA	385,029	394,963	443,206	459,409	488,641	485,354	505,965
47	North Carolina State U.	Public	333,027	367,422	383,193	360,795	378,154	404,225	417,468	446,112	468,293	489,918
48	U. Iowa	Public	374,905	300,422	334,937	444,034	443,893	446,429	435,377	449,147	443,218	473,362
49	U. Colorado Boulder	Public	267,314	272,191	299,892	349,449	390,677	392,004	385,849	379,475	420,775	453,123
50	U. Colorado Denver and Anschutz Medical Campus	Public	264,739	269,805	364,659	389,461	417,587	431,977	409,443	411,020	410,081	443,705
51	U. Texas Southwestern Medical Center	Public	341,090	390,349	402,087	419,220	431,883	435,085	440,620	434,627	438,824	442,666
52	U. Cincinnati	Public	344,526	359,011	369,906	411,269	448,936	433,668	438,642	422,873	436,028	430,579
53	U. Chicago	Private	325,161	360,047	381,194	437,721	453,562	419,631	402,621	390,082	412,536	420,997
54	U. Georgia	Public	351,935	369,546	369,997	295,339	335,901	351,395	350,225	355,471	374,264	410,345
55	Case Western Reserve U.	Private	379,347	420,441	418,012	418,164	429,206	431,090	425,788	419,011	401,527	405,655
56	U. Virginia, Charlottesville	Public	NA	NA	NA	276,308	398,096	383,359	385,828	358,576	373,218	397,458
57	Boston U.	Private	253,899	259,045	284,507	352,817	355,916	334,496	368,281	367,328	388,336	395,921
58	U. Maryland, Baltimore	Public	358,851	379,407	359,542	374,036	409,665	433,228	429,315	411,268	397,695	393,876
59	SUNY, U. Buffalo	Public	323,417	339,575	349,423	349,670	353,172	360,226	387,863	386,562	382,935	389,569



Rank	Institution	Institutional control	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
60	California Institute of Technology	Private	287,343	274,671	345,400	362,172	377,514	379,713	347,105	367,182	374,424	371,060
61	Scripps Research Institute	Private	360,511	366,047	382,275	387,298	400,768	398,673	399,899	386,231	384,161	364,670
62	U. Miami	Private	212532	244067	250339	280671	323,486	365,301	344,757	345,805	331,036	358,441
63	U. Utah	Public	248,864	254,632	334,002	379,200	414,316	430,056	494,058	486,140	518,928	350,212
64	U. Kentucky	Public	348,835	345,355	360,254	359,944	372,932	360,776	339,764	328,239	331,705	349,661
65	Brown U.	Private	175,623	182,596	187,380	335,838	344,090	365,120	361,010	341,531	342,040	347,016
66	U. Rochester	Private	377,016	378,368	398,187	414,655	429,034	389,612	389,355	353,419	346,932	346,165
67	U. California, Irvine	Public	316,178	334,279	336,345	327,594	344,678	350,030	347,773	340,056	329,798	345,319
68	U. Illinois, Chicago	Public	344,815	339,704	347,118	362,939	380,828	388,625	367,848	347,888	354,560	337,296
69	Rockefeller U.	Private	233,917	247,505	252,478	265,750	272,491	292,896	298,474	316,368	323,932	335,136
70	Washington State U.	Public	213,262	283,086	301,080	304,352	320,510	335,930	341,082	326,414	333,134	334,082
71	Colorado State U., Fort Collins	Public	296,020	302,613	311,720	302,896	330,784	375,919	313,238	307,978	317,219	331,862
72	Oregon Health and Science U.	Public	287,430	301,396	309,675	314,990	334,324	305,530	308,767	314,802	326,915	331,524
73	Iowa State U.	Public	221,002	228,167	228,526	250,120	267,641	260,995	266,596	313,263	306,125	328,385
74	Carnegie Mellon U.	Private	198,139	210,988	217,687	222,790	242,882	255,933	271,277	251,222	242,004	319,168
75	SUNY, Polytechnic Institute	Public	na	na	na	na	na	na	na	412,851	295,313	316,680
76	Princeton U.	Private	198,945	204,489	212,510	242,570	263,335	275,666	269,908	293,274	279,851	305,147



Rank	Institution	Institutional control	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
77	U. Hawaii, Manoa	Public	266,447	271,835	290,707	303,085	318,316	312,311	326,750	324,342	316,497	304,476
78	Albert Einstein College of Medicine	Private	na	na	na	na	na	na	na	na	na	300,909
79	U. Kansas	Public	219,535	227,433	236,544	267,961	274,727	286,262	298,498	301,534	311,383	297,933
80	U. Nebraska, Lincoln	Public	229,496	244,869	251,195	224,135	235,296	253,321	266,507	278,299	284,438	294,856
81	Louisiana State U., Baton Rouge	Public	266,895	280,081	294,780	289,872	287,841	285,395	283,400	290,076	281,154	291,972
82	Florida State U.	Public	211,310	211,557	237,794	227,329	230,411	225,378	250,877	252,548	256,449	268,288
83	U. Connecticut	Public	233,774	233,246	232,944	237,908	253,792	256,854	242,251	258,056	259,397	265,522
84	Medical U. South Carolina	Public	184,624	189,369	216,778	224,632	213,346	236,586	245,451	242,594	243,534	260,098
85	U. Oklahoma, Norman and Health Sciences Center	Public	187,454	204,765	213,720	218,089	249,297	240,974	255,674	253,344	242,367	259,998
86	Uniformed Services U. of the Health Sciences	Public	71,307	106,179	192,268	134,126	175,365	143,250	164,232	262,489	361,173	256,203
87	Oregon State U.	Public	231,895	233,358	257,564	216,595	228,814	240,507	232,677	230,963	245,317	254,275
88	U. Massachusetts, Medical School	Public	157,469	178,614	204,033	232,039	262,714	256,090	245,923	241,869	250,338	253,099
89	U. Missouri, Columbia	Public	244,429	251,894	253,527	238,500	230,957	239,810	236,423	237,266	246,684	248,300
90	Temple U.	Public	90,773	99,815	111,421	124,528	134,533	138,318	224,087	224,101	227,468	246,392
91	U. Central Florida	Public	141,140	147,092	148,809	117,985	109,190	116,891	126,681	185,555	215,519	242,308



Rank	Institution	Institutional control	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
92	U. New Mexico	Public	181,734	202,694	205,831	211,771	220,565	220,360	227,703	228,849	232,271	239,550
93	Mississippi State U.	Public	211,271	219,017	225,426	231,675	226,070	233,197	206,424	209,729	226,359	239,446
94	U. Texas Health Science Center, Houston	Public	191,724	197,252	217,623	240,772	261,172	236,250	233,256	233,737	234,299	237,016
95	Dartmouth C.	Private	192,846	188,122	190,425	194,141	210,631	195,930	201,591	212,606	209,646	233,636
96	George Washington U.	Private	149,413	181,688	103,793	196,917	197,621	196,448	202,428	227,995	241,117	231,829
97	SUNY, Stony Brook U.	Public	268,541	190,712	189,299	204,728	211,356	219,744	225,712	211,631	220,580	230,621
98	U. California, Santa Barbara	Public	200,504	214,441	227,221	225,730	230,435	233,883	236,497	231,322	222,870	230,139
99	Virginia Commonwealth U.	Public	151,197	171,637	162,283	197,709	207,756	201,366	196,015	201,858	218,925	225,999
100	Wayne State U.	Public	238,738	253,604	257,207	254,492	259,895	227,070	224,331	218,435	213,878	221,537
-	All other surveyed institutions		17,095,939	17,932,937	18,999,151	14,858,610	15,776,650	15,624,191	15,391,409	14,702,790	14,564,229	15,021,976

na = not applicable; institution did not exist or did not exist as a separate entity. NA = not available; institution was not surveyed separately.

^a Johns Hopkins University includes Applied Physics Laboratory, with \$1,403,733 in total R&D expenditures in FY 2016.

Note(s)

Before FY 2010, some institution totals for all R&D expenditures may be lower-bound estimates because the National Science Foundation (NSF) did not attempt to estimate for nonresponse on non-S&E R&D expenditures before FY 2010. Institutions ranked are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large multicampus universities; some are part of state university systems.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, Higher Education Research and Development Survey (HERD).



Science and Engineering Indicators 2018