

TABLE 37

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2019

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	28,850,507	17,106,288	416,730	6,080,366	2,060,185	2,441,632	745,306
Johns Hopkins U. ^a	1	2,917,436	2,482,130	7,526	152,043	105,805	166,571	3,361
U. Pennsylvania	2	1,506,285	717,359	16,182	491,734	158,554	119,464	2,992
Harvard U.	3	1,239,736	618,405	980	381,597	48,168	166,590	23,996
Duke U.	4	1,226,517	709,705	498	154,081	236,292	105,775	20,166
Stanford U.	5	1,204,116	738,957	38,011	124,706	136,065	159,040	7,337
Cornell U.	6	1,144,534	525,182	92,698	227,319	56,461	118,002	124,872
Yale U.	7	1,072,309	576,776	8,038	318,201	74,583	86,495	8,216
Massachusetts Institute of Technology	8	1,009,466	489,345	2,713	116,760	196,810	107,962	95,876
Columbia U. in the City of New York	9	1,003,615	736,536	7,977	74,951	78,227	103,544	2,380
New York U.	10	934,720	436,850	22,939	229,172	50,280	80,137	115,342
U. Southern California	11	909,683	543,607	13,301	189,168	47,241	50,917	65,449
Washington U., Saint Louis	12	887,088	543,508	963	157,727	96,311	87,106	1,473
Northwestern U.	13	857,069	502,300	14	243,099	53,528	50,647	7,481
Emory U.	14	794,928	424,461	5,392	239,403	50,408	72,787	2,477
Vanderbilt U. and Vanderbilt U. Medical Center	15	776,937	492,808	1,268	184,711	60,971	34,258	2,921
Icahn School of Medicine at Mount Sinai	16	722,241	443,745	9,191	134,825	69,816	56,296	8,368
Baylor C. of Medicine	17	651,920	309,354	32,232	193,449	31,149	85,736	0
Boston U.	18	534,205	318,511	395	149,767	21,793	41,622	2,117
U. Chicago	19	459,171	332,776	87	44,762	40,457	40,694	395
Case Western Reserve U.	20	438,994	357,549	1,771	44,093	8,363	23,865	3,353
Scripps Research Institute	21	427,734	267,122	4,347	76,306	39,161	40,798	0
California Institute of Technology	22	399,931	287,198	1,367	42,683	15,052	29,267	24,364
U. Rochester	23	393,960	306,551	2,598	40,515	24,370	15,256	4,670
Princeton U.	24	385,739	193,453	704	80,414	17,701	55,994	37,473
U. Miami	25	360,716	212,023	12,804	67,707	30,997	35,782	1,403
Carnegie Mellon U.	26	359,720	197,978	2,593	107,841	36,414	7,887	7,007
Rockefeller U.	27	351,089	84,566	484	224,310	7,518	34,018	193
Dartmouth C. and Dartmouth Hitchcock Medical Center	28	342,142	154,597	1,253	154,896	6,182	19,236	5,978
Albert Einstein C. of Medicine	29	298,824	202,513	2,127	79,274	2,778	12,132	0
George Washington U.	30	269,799	155,697	1,159	64,471	4,123	33,776	10,573
Brown U.	31	256,954	178,460	33	53,599	3,893	15,371	5,598
Medical C. Wisconsin	32	244,752	119,036	621	77,429	22,323	18,986	6,357
Georgetown U.	33	240,960	94,050	1,844	66,400	14,835	41,846	21,985

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U. Notre Dame	34	240,078	106,411	876	89,308	9,451	15,648	18,384
Wake Forest U.	35	238,933	165,702	14,549	22,580	13,689	14,009	8,404
Woods Hole Oceanographic Institution	36	229,143	184,995	1,501	20,634	1,234	11,584	9,195
Tufts U.	37	213,285	146,630	1,944	22,548	11,123	27,005	4,035
Tulane U.	38	196,933	104,219	4,379	53,333	4,965	17,588	12,449
Northeastern U.	39	183,998	126,762	1,926	39,442	7,629	7,788	451
Rice U.	40	182,564	83,584	6,013	53,316	10,814	23,426	5,411
Thomas Jefferson U.	41	170,458	74,816	3,010	56,965	18,910	9,041	7,716
U. Dayton	42	165,343	153,328	3,395	2,502	5,356	648	114
Syracuse U.	43	154,366	37,803	4,884	94,588	5,820	11,103	168
Drexel U.	44	149,481	85,278	5,287	40,179	3,888	8,949	5,900
Cold Spring Harbor Laboratory	45	126,773	73,854	152	32,823	1,527	18,417	0
Rensselaer Polytechnic Institute	46	103,739	50,448	5,091	29,674	14,189	4,337	0
Rush U.	47	96,267	68,941	2,309	7,670	13,761	3,586	0
American U.	48	71,053	15,229	394	43,492	241	11,152	545
Saint Louis U.	49	66,103	34,275	1,466	17,838	4,885	6,173	1,466
Boston C.	50	61,956	32,475	2,163	13,596	440	13,104	178
Van Andel Research Institute	51	61,738	18,259	976	29,815	466	2,798	9,424
Brandeis U.	52	60,825	41,475	195	8,461	475	8,191	2,028
Rochester Institute of Technology	53	58,175	26,359	10,835	16,939	2,271	1,007	764
Howard U.	54	44,163	29,978	1,478	8,386	3,685	636	0
Mercer U.	55	44,128	27,035	30	9,420	7,020	242	381
Southern Methodist U.	56	42,562	17,869	1,092	18,220	3,343	2,034	4
Worcester Polytechnic Institute	57	39,878	22,964	2,838	8,805	4,431	656	184
Brigham Young U., Provo	58	39,582	23,901	1,274	7,404	3,332	3,216	455
Loyola U., Chicago	59	39,223	23,562	78	7,712	3,206	3,285	1,380
Lehigh U.	60	38,185	26,554	2,034	8,368	503	435	291
Marquette U.	61	37,777	12,792	362	15,153	811	2,942	5,717
Stevens Institute of Technology	62	36,695	28,342	1,127	4,963	1,568	654	41
U. Denver	63	36,551	22,012	893	6,425	1,453	5,142	626
Illinois Institute of Technology	64	34,334	28,827	1	1,826	2,328	1,007	345
Baylor U.	65	33,304	6,955	1,157	19,443	1,152	2,955	1,642
Morehouse School of Medicine	66	31,289	22,461	457	6,555	0	1,816	0
Teachers C., Columbia U.	67	24,865	8,054	161	NA	1,156	13,167	2,327

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Nova Southeastern U.	68	24,567	8,965	2,366	10,660	2,035	398	143
Catholic U. of America	69	24,484	21,642	278	1,398	485	681	0
Loma Linda U.	70	24,408	16,909	742	3,328	1,828	1,502	99
Creighton U.	71	24,039	8,265	5,312	7,078	1,554	827	1,003
Albany Medical C.	72	23,028	11,827	0	4,294	4,413	1,355	1,139
Villanova U.	73	22,837	4,085	1,219	16,135	369	778	251
Tuskegee U.	74	20,562	14,825	2,573	2,653	0	0	511
Fordham U.	75	20,287	4,218	70	13,774	149	1,246	830
Chapman U.	76	19,592	5,738	525	8,835	448	3,996	50
New York Medical C.	77	19,398	11,061	1,444	590	3,927	1,699	677
U. Tulsa	78	18,648	4,142	746	3,847	9,628	154	131
Meharry Medical C.	79	18,286	16,443	0	921	50	872	0
Florida Institute of Technology	80	17,876	10,352	1,218	4,854	453	579	420
Clarkson U.	81	17,147	8,551	1,292	5,140	1,196	845	123
Duquesne U.	82	16,947	4,552	812	9,191	266	2,118	8
Rosalind Franklin U. of Medicine and Science	83	16,126	8,865	45	4,788	1,500	922	6
Charles R. Drew U. of Medicine and Science	84	13,739	10,427	455	2,622	0	235	0
Hampton U.	85	13,605	13,390	0	215	0	0	0
New School	86	13,421	1,819	466	3,459	211	6,091	1,375
Embry-Riddle Aeronautical U.	87	12,478	8,970	0	1,001	1,187	132	1,188
Ponce Health Sciences U.	88	11,390	8,339	450	0	0	0	2,601
Midwestern U.	89	10,343	1,045	50	8,670	308	270	0
Clark U.	90	10,193	3,495	181	5,162	43	1,295	17
Xavier U. Louisiana	91	10,152	8,679	514	932	0	27	0
Wesleyan U.	92	9,958	4,793	145	3,921	37	903	159
Bryn Mawr C.	93	9,846	1,801	0	7,726	0	319	0
St. Edward's U.	94	9,650	6,500	1,500	700	150	500	300
Clark Atlanta U.	95	9,048	5,689	0	3,207	22	130	0
Wellesley C.	96	8,810	3,602	115	0	143	4,508	442
Pacific U.	97	8,753	3,917	317	2,356	397	1,766	0
Claremont Graduate U.	98	8,715	1,886	321	2,809	1,056	2,527	116
U. New England	99	7,346	5,269	0	1,885	48	139	5
Loyola Marymount U.	100	7,272	1,185	591	4,924	0	571	1
Edward Via C. of Osteopathic Medicine	101	7,225	749	2	5,932	139	403	0

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Seton Hall U.	102	7,056	3,982	1,871	120	232	851	0
Texas Christian U.	103	6,552	2,866	590	1,144	1,531	240	181
Amherst C.	104	6,325	2,118	0	2,894	0	154	1,159
Claremont McKenna C.	105	6,214	730	38	4,915	0	531	0
DePaul U.	106	6,144	4,464	6	1,132	36	473	33
Smith C.	107	6,041	2,892	0	1,658	21	1,470	0
U. San Diego	108	6,036	2,511	135	2,823	0	273	294
New York Institute of Technology	109	5,820	3,135	188	2,059	6	432	0
Bucknell U.	110	5,625	1,764	80	3,201	214	355	11
Azusa Pacific U.	111	5,598	137	0	5,461	0	0	0
Grinnell C.	112	5,500	364	0	4,580	0	344	212
Gallaudet U.	113	5,382	2,190	0	2,436	1	153	602
U. Detroit Mercy	114	5,210	4,936	0	121	12	141	0
Williams C.	115	5,188	1,131	0	1,758	0	145	2,154
Alfred U.	116	5,153	1,580	1,059	1,882	632	0	0
Long Island U.	117	5,113	1,839	11	2,935	173	155	0
U. New Haven	118	5,062	2,786	559	542	490	685	0
Franklin and Marshall C.	119	5,041	1,582	321	2,375	208	265	290
Western U. of Health Sciences	120	4,951	3,035	655	175	839	194	53
Fisk U.	121	4,748	4,615	0	0	47	86	0
Morehouse C.	122	4,564	4,494	0	0	0	0	70
Carleton C.	123	4,388	1,891	98	1,955	0	423	21
Swarthmore C.	124	4,203	1,539	0	2,344	0	320	0
MGH Institute of Health Professions	125	4,130	3,494	0	20	0	616	0
Milwaukee School of Engineering	126	4,026	764	93	0	3,141	14	14
Barnard C.	127	4,010	2,871	0	656	136	347	0
U. Central del Caribe	128	3,953	2,705	215	1,002	0	0	31
U. Ana G. Mendez, Gurabo	129	3,945	951	0	2,994	0	0	0
Roseman U. of Health Sciences	130	3,916	17	8	3,746	56	89	0
Pace U.	131	3,855	2,579	7	1,183	18	64	4
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	132	3,769	191	0	3,576	0	2	0
Colgate U.	133	3,756	1,202	0	2,313	0	241	0
Haverford C.	134	3,752	2,343	0	919	0	219	271

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U. of the Sciences Philadelphia	135	3,740	1,318	76	745	1,117	484	0
Trinity U.	136	3,736	924	0	1,431	0	1,216	165
Toyota Technological Institute, Chicago	137	3,681	1,934	0	1,325	305	117	0
Touro U.	138	3,543	1,540	37	1,917	4	45	0
Albany C. of Pharmacy and Health Sciences	139	3,383	1,692	0	744	901	40	6
Tougaloo C.	140	3,380	3,380	0	0	0	0	0
Harvey Mudd C.	141	3,353	1,619	0	1,208	201	191	134
Reed C.	142	3,240	1,423	23	1,558	0	236	0
Philadelphia C. of Osteopathic Medicine	143	3,162	346	0	2,368	0	448	0
U. of the Pacific	144	3,078	2,158	404	NA	33	483	0
Skidmore C.	145	3,012	2,261	0	465	0	286	0
Bowdoin C.	146	2,991	1,790	31	758	1	411	0
Pomona C.	147	2,985	863	8	1,468	0	646	0
Mount Holyoke C.	148	2,979	2,074	41	398	0	466	0
Saint Joseph's U.	149	2,851	373	769	1,260	4	245	200
U. Richmond	150	2,783	1,575	0	815	0	382	11
Dillard U.	151	2,772	1,390	185	732	0	98	367
Spelman C.	152	2,751	2,004	0	560	187	0	0
Lewis and Clark C.	153	2,750	931	0	1,483	0	336	0
Hope C.	154	2,745	1,361	0	281	0	1,103	0
U. San Francisco	155	2,712	198	257	1,723	0	534	0
Elon U.	156	2,545	284	0	2,179	37	42	3
Occidental C.	157	2,458	1,614	164	NA	291	389	0
Yeshiva U.	158	2,420	380	0	869	0	381	790
St. John's U., New York	159	2,352	1,666	0	405	162	105	14
Santa Clara U.	160	2,319	1,333	210	NA	250	526	0
Erikson Institute	161	2,279	753	588	179	0	759	0
Colorado C.	162	2,233	324	303	1,039	0	567	0
Seattle U.	163	2,223	1,307	78	312	2	362	162
Wheaton C., Wheaton	164	2,173	301	0	950	2	920	0
Pepperdine U.	165	2,170	914	54	1,059	0	143	0
Johnson C. Smith U.	166	2,148	1,909	100	0	0	139	0
Bates C.	167	2,135	1,607	0	284	0	101	143
Polytechnic U. Puerto Rico	168	2,118	1,884	0	234	0	0	0

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Keck Graduate Institute	169	2,095 i	1,078 i	0 i	673 i	139 i	34 i	171 i		
Oberlin C.	170	2,076	1,576	0	469	3	28	0		
Niagara U.	171	2,057	355	275	620	0	807	0		
Hamilton C.	172	2,050	190	0	1,302	0	491	67		
Hawaii Pacific U.	173	1,980	1,809	0	136	0	35	0		
Des Moines U.	174	1,954	845	320	680	21	88	0		
Willamette U.	175	1,953	549	4	861	0	539	0		
Hobart and William Smith Colleges	176	1,919	1,047	329	453	0	90	0		
Connecticut C.	177	1,894	752	0	1,089	0	53	0		
U. of St. Thomas (MN)	178	1,870	313	380	603	287	249	38		
Trinity C., Hartford	179	1,858	1,077	0	582	4	195	0		
Colby C.	180	1,852	1,093	1	512	0	0	246		
Roger Williams U.	180	1,852	1,135	138	502	33	44	0		
Babson C.	182	1,845	14	0	868	101	198	664		
Macalester C.	183	1,808	805	95	797	0	111	0		
Mercyhurst U.	184	1,801 i	668 i	555 i	578 i	0 i	0 i	0 i		
U. of the Incarnate Word	185	1,800	1,075	52	462	0	208	3		
Liberty U.	186	1,780	535	344	596	51	254	0		
Davidson C.	187	1,777	973	0	642	4	158	0		
Alaska Pacific U.	188	1,774	451	5	0	1,312	0	6		
Kettering U.	189	1,765	402	0	720	602	41	0		
C. Wooster	190	1,758	456	0	997	0	297	8		
Clafflin U.	191	1,746	1,735	0	0	0	11	0		
Hofstra U.	192	1,744	1,296	51	206	58	99	34		
Union C., Schenectady	193	1,740	972	19	637	26	61	25		
Gettysburg C.	194	1,664	841	0	186	59	394	184		
Middlebury C.	195	1,657	1,558	0	40	6	53	0		
Franklin W. Olin C. of Engineering	196	1,655	162	0	574	92	697	130		
Palmer C. of Chiropractic, Davenport	197	1,650	1,100	0	550	0	0	0		
Mills C.	198	1,643	840	61	49	0	693	0		
Furman U.	199	1,628	1,106	0	403	0	119	0		
La Sierra U.	200	1,581	640	0	403	0	538	0		
Calvin U.	201	1,577	925	32	5	99	188	328		
Lafayette C.	202	1,554	910	10	598	36	0	0		

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U. Hartford	203	1,528	1,019	0	486	23	0	0
Marshall B. Ketchum U.	204	1,430	336	0	725	369	0	0
Bradley U.	205	1,357	515	49	265	515	0	13
Lawrence Technological U.	206	1,352	304	224	96	279	449	0
Monmouth U.	207	1,294	120	735	62	21	321	35
Fairfield U.	208	1,279	594	0	164	0	521	0
Benedict C.	209	1,269	1,226	14	0	0	29	0
Salish Kootenai C.	210	1,252	1,251	0	0	0	1	0
National U. of Natural Medicine	211	1,245	760	0	308	172	0	5
Heidelberg U.	212	1,237	164	651	178	62	182	0
New England C. of Optometry	213	1,223	928	0	174	44	77	0
Saint Michael's C.	214	1,200	964	0	236	0	0	0
Saint John's U., Collegeville	215	1,191	0	0	1,191	0	0	0
Manhattan C.	216	1,190	245	220	430	295	0	0
Biola U.	217	1,155	641	18	294	77	95	30
Emerson C.	218	1,145	138	184	398	8	417	0
California Lutheran U.	219	1,143	256	5	880	0	2	0
Andrews U.	220	1,126	278	0	615	0	233	0
C. of Saint Benedict	220	1,126	45	0	1,081	0	0	0
Doane U.	222	1,093	928	0	148	0	17	0
Kenyon C.	223	1,092	776	0	176	0	140	0
Whitman C.	224	1,083	704	0	207	0	172	0
Providence C.	225	1,042	857	0	152	0	33	0
Albion C.	226	1,040	180	0	860	0	0	0
Dickinson C.	227	1,037	324	111	350	0	209	43
Rhode Island School of Design	228	1,027	246	44	450	234	53	0
St. Olaf C.	229	1,010	255	10	638	0	107	0
Vassar C.	230	1,009	909	0	53	0	19	28
Augsburg U.	231	991	496	0	441	0	0	54
Canisius C.	232	950	943	0	0	0	7	0
U. Portland	233	942	218	292	189	2	241	0
Drake U.	234	865	463	11	236	7	146	2
Salus U.	235	854	696	13	77	60	8	0
Augustana U.	236	841	784	0	57	0	0	0

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Bethune-Cookman U.	237	735	735	0	0	0	0	0
A. T. Still U.	238	644	434	0	87	1	122	0
Allegheny C.	239	632	217	5	248	0	160	2
U. Ana G. Mendez, Cupey	240	624	608	0	16	0	0	0
Southwest C. of Naturopathic Medicine and Health Sciences	241	230	0	0	30	0	200	0
Rider U.	242	228	68	25	104	0	29	2

i = imputed. NA = not available; data were not provided by institution.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$1,725,018 thousand in total R&D expenditures in FY 2019.

Note(s):

Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2019.