

TABLE 38

## Higher education R&amp;D expenditures at private institutions, ranked by all R&amp;D expenditures, by source of funds: FY 2022

(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	-	33,967,583	20,637,522	404,187	7,123,717	2,282,215	2,642,649	877,293
Johns Hopkins U. <sup>a</sup>	1	3,420,312	2,971,816	7,785	158,738	120,023	153,334	8,616
U. Pennsylvania	2	1,791,311	873,318	23,189	562,094	204,216	120,832	7,662
Duke U.	3	1,390,538	901,807	802	167,200	208,132	92,526	20,071
Stanford U.	4	1,384,555	860,125	20,064	169,346	138,118	189,536	7,366
Harvard U.	5	1,308,458	628,683	5,379	415,763	62,034	179,073	17,526
Cornell U.	6	1,300,357	636,481	88,200	250,308	55,328	115,788	154,252
New York U.	7	1,276,038	668,381	17,982	296,131	58,776	101,175	133,593
Columbia U. in the City of New York	8	1,230,924	904,346	6,391	113,189	83,684	121,435	1,879
Yale U.	9	1,191,201	689,270	2,364	343,754	76,240	75,151	4,422
Vanderbilt U. and Vanderbilt U. Medical Center	10	1,086,223	666,282	2,954	301,424	83,213	29,292	3,058
Washington U., Saint Louis	11	1,047,098	681,353	638	154,896	121,140	86,700	2,371
U. Southern California	12	1,039,905	601,747	11,421	201,486	91,844	58,895	74,512
Northwestern U.	13	1,000,695	618,771	783	262,434	59,850	51,091	7,766
Massachusetts Institute of Technology	14	989,166	531,056	2,523	117,128	165,200	100,640	72,619
Emory U.	15	958,281	568,149	522	252,545	64,536	70,269	2,260
Icahn School of Medicine at Mount Sinai	16	893,968	610,646	3,652	132,627	81,384	50,251	15,408
Baylor C. of Medicine	17	827,005	420,054	35,155	292,730	28,251	50,815	0
Boston U.	18	725,402	413,102	752	187,662	22,525	84,116	17,245
U. Chicago	19	591,805	456,806	322	40,734	46,694	45,554	1,695
Scripps Research Institute	20	492,639	242,135	1,424	164,488	35,318	49,274	0
California Institute of Technology	21	478,142	326,401	5,009	54,587	17,200	52,970	21,975
Case Western Reserve U.	22	467,389	380,423	6,503	53,133	4,856	20,142	2,332
Princeton U.	23	461,185	218,390	255	102,851	17,455	73,840	48,394
U. Rochester	24	450,805	334,503	2,037	53,315	36,329	18,783	5,838
Carnegie Mellon U.	25	449,707	259,160	4,379	123,903	42,115	13,772	6,378
U. Miami	26	439,300	265,212	18,607	97,990	35,378	21,416	697
Rockefeller U.	27	360,877	94,693	102	225,209	2,292	37,218	1,363
Dartmouth C. and Dartmouth Hitchcock Medical Center	28	344,126	155,445	1,344	156,384	2,383	19,943	8,627
Thomas Jefferson U.	29	321,644	173,861	14,252	63,739	26,469	24,927	18,396
Medical C. Wisconsin	30	321,506	152,301	586	102,906	35,121	27,050	3,542
Albert Einstein C. of Medicine	31	318,314	220,780	719	73,665	3,820	19,330	0
Georgetown U.	32	313,220	127,213	1,144	81,692	16,111	61,547	25,513
Brown U.	33	310,780	215,067	9	56,819	4,247	28,539	6,099

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## Higher education R&amp;D expenditures at private institutions, ranked by all R&amp;D expenditures, by source of funds: FY 2022

(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
U. Notre Dame	34	280,604	124,411	487	94,156	16,225	21,210	24,115
George Washington U.	35	275,483	161,867	2,264	67,384	5,048	25,886	13,034
Wake Forest U.	36	269,109	180,754	9,209	26,816	22,212	21,022	9,096
Woods Hole Oceanographic Institution	37	255,017	211,550	398	10,972	3,874	12,807	15,416
Northeastern U.	38	231,607	150,093	1,747	55,478	12,107	11,909	273
Tufts U.	39	231,224	150,081	3,780	29,719	12,765	11,331	23,548
Tulane U.	40	222,605	127,544	4,215	51,561	10,974	13,868	14,443
Rice U.	41	216,202	105,345	5,071	63,401	5,535	31,834	5,016
U. Dayton	42	211,494	203,206	756	853	5,620	408	651
Syracuse U.	43	157,407	33,976	3,890	101,347	8,568	9,378	248
Drexel U.	44	151,903	99,399	3,418	36,121	2,323	7,882	2,760
Rensselaer Polytechnic Institute	45	121,809	50,605	3,485	47,193	15,282	2,012	3,232
Cold Spring Harbor Laboratory	46	118,034	59,163	134	36,235	3,766	18,736	0
Rush U.	47	114,874	79,647	1,548	9,884	15,789	8,006	0
Brandeis U.	48	102,378	44,205	1,027	40,627	1,100	11,813	3,606
Saint Louis U.	49	82,740	42,170	355	22,991	5,459	11,584	181
Van Andel Research Institute	50	78,626	29,424	701	35,812	227	4,633	7,829
Boston C.	51	68,958	36,560	1,439	13,949	652	15,649	709
American U.	52	67,616	14,752	874	40,650	428	8,424	2,488
Howard U.	53	67,594	37,331	1,197	23,130	2,908	1,816	1,212
Baylor U.	54	66,014	15,856	2,211	34,144	3,165	7,682	2,956
Rochester Institute of Technology	55	62,383	33,373	7,076	16,109	2,789	1,998	1,038
Southern Methodist U.	56	57,544	17,680	1,106	33,929	1,918	2,751	160
Worcester Polytechnic Institute	57	56,904	34,004	3,041	14,261	3,308	1,414	876
Stevens Institute of Technology	58	53,563	41,836	2,264	5,895	2,608	539	421
Lehigh U.	59	51,769	36,535	2,342	11,162	595	1,060	75
Mercer U.	60	50,222	32,504	46	9,218	4,083	112	4,259
Loyola U., Chicago	61	46,169	26,972	204	9,904	3,527	3,955	1,607
Brigham Young U., Provo	62	45,610	31,636	1,032	6,962	3,577	2,171	232
U. Denver	63	45,561	26,040	4,419	6,953	1,937	5,210	1,002
Morehouse School of Medicine	64	42,489	31,339	440	7,155	0	3,555	0
Marquette U.	65	40,638	15,316	207	16,222	752	2,440	5,701
Catholic U. of America	66	38,191	26,285	130	4,211	370	7,195	0
Chapman U.	67	34,212	11,098	854	13,710	425	7,989	136

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Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Nova Southeastern U.	68	31,189	9,314	3,571	16,839	417	616	432
Teachers C., Columbia U.	69	30,978	10,177	4,357	NA	1,846	12,335	2,263
Illinois Institute of Technology	70	29,791	25,963	2	1,759	948	371	748
Embry-Riddle Aeronautical U.	71	28,650	23,863	358	1,425	1,002	225	1,777
Creighton U.	72	27,609	12,022	3,702	8,993	1,289	320	1,283
Villanova U.	73	25,955	6,476	1,404	15,309	605	2,140	21
Albany Medical C.	74	22,297	13,384	0	3,132	3,606	689	1,486
Tuskegee U.	75	21,941	14,911	3,206	1,128	0	0	2,696
Clarkson U.	76	21,703	8,834	2,713	8,116	1,363	508	169
Fordham U.	77	20,432	4,856	0	13,005	27	1,523	1,021
New School	78	19,218	1,261	298	3,023	2	11,860	2,774
Texas Christian U.	79	18,353	5,670	302	9,201	2,028	1,096	56
Meharry Medical C.	80	17,960	15,048	0	648	25	2,239	0
Florida Institute of Technology	81	17,706	10,970	1,170	4,740	465	361	0
U. Tulsa	82	17,416	5,893	320	4,023	6,130	967	83
Long Island U.	83	17,183	2,652	0	13,962	184	334	51
New York Medical C.	84	16,461	9,070	985	813	2,947	1,980	666
Loma Linda U.	85	15,517	9,134	630	3,012	1,358	942	441
Charles R. Drew U. of Medicine and Science	86	14,581	10,656	220	3,098	0	607	0
Xavier U. Louisiana	87	14,156	11,733	585	1,452	0	386	0
Duquesne U.	88	13,944	6,309	928	4,043	217	2,447	0
Rosalind Franklin U. of Medicine and Science	89	12,988	7,292	144	4,239	593	720	0
Loyola Marymount U.	90	12,773	2,824	1,334	7,360	6	1,249	0
Hampton U.	91	11,462	11,274	0	188	0	0	0
Midwestern U.	92	11,069	1,609	160	8,714	290	296	0
U. San Diego	93	10,143	2,911	510	5,842	0	576	304
Wesleyan U.	94	10,101	5,267	0	3,652	93	1,052	37
Bryn Mawr C.	95	9,123	1,257	0	7,692	0	174	0
Saint Joseph's U.	96	9,041	2,520	1,205	2,609	2,252	455	0
Western U. of Health Sciences	97	9,029	7,131	600	224	351	704	19
Clark U.	98	8,813	2,500	77	4,552	0	1,577	107
Clark Atlanta U.	99	8,791	5,895	0	2,647	198	51	0
Claremont Graduate U.	100	8,382	1,610	342	1,113	3,384	1,381	552
DePaul U.	101	8,362	3,757	169	2,195	260	1,948	33

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Yeshiva U.	102	7,274	1,695	0	4,765	0	349	465
Amherst C.	103	7,177	2,862	0	2,130	0	127	2,058
Edward Via C. of Osteopathic Medicine	104	7,121	482	58	6,520	8	53	0
Hofstra U.	105	6,939	2,118	139	4,485	0	197	0
Philadelphia C. of Osteopathic Medicine	106	6,667	40	57	2,675	2,300	1,595	0
U. New England	107	6,664	3,660	15	2,503	126	360	0
Gallaudet U.	108	6,360	3,287	1	2,396	0	128	548
Hope C.	109	6,355	3,691	0	1,928	0	625	111
Wellesley C.	110	6,326	2,915	552	NA	89	2,008	762
Abilene Christian U.	111	6,310	1,032	0	231	4,907	140	0
Roseman U. of Health Sciences	112	6,296	30	0	6,158	106	2	0
High Tech High Graduate School of Ed.	113	6,203	0	0	0	0	6,203	0
Pacific U.	114	6,128	2,672	498	2,670	45	243	0
Reed C.	115	5,922 i	2,139 i	38 i	3,272 i	0 i	342 i	131 i
Claremont McKenna C.	116	5,893	1,070	56	4,377	0	390	0
Grinnell C.	117	5,867	242	0	5,237	15	208	165
Smith C.	118	5,831	2,403	0	1,740	248	1,440	0
MGH Institute of Health Professions	119	5,805	4,628	0	20	0	1,157	0
Seton Hall U.	120	5,741	2,092	1,737	1,176	150	586	0
Morehouse C.	121	5,664	5,664	0	0	0	0	0
Williams C.	122	5,657 i	1,286 i	0 i	1,894 i	0 i	156 i	2,321 i
New York Institute of Technology	123	5,555	2,988	167	2,180	0	220	0
Des Moines U.	124	5,307	1,589	179	3,455	0	84	0
Bucknell U.	125	5,259	2,539	0	1,150	369	236	965
U. Detroit Mercy	126	5,186	4,663	0	494	16	13	0
U. Central del Caribe	127	5,053	2,807	356	1,486	0	0	404
Barnard C.	128	4,988	3,758	0	652	39	539	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	129	4,954	858	0	3,799	0	91	206
U. New Haven	130	4,548	2,447	504	405	352	807	33
Haverford C.	131	4,487	2,722	0	852	0	381	532
Toyota Technological Institute, Chicago	132	4,470	2,199	0	1,568	431	272	0
Franklin and Marshall C.	133	4,440	1,680	266	1,555	339	333	267
Carleton C.	134	4,358	1,914	18	2,055	0	214	157
Colgate U.	135	4,343	1,570	0	2,625	78	66	4

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U. of Health Sciences and Pharmacy in St. Louis	136	4,280	2,523	0	977	635	145	0
Santa Clara U.	137	4,225	2,660	299	NA	518	748	0
Swarthmore C.	137	4,225	1,733	6	2,130	0	356	0
Occidental C.	139	4,139	2,622	484	NA	480	553	0
Fisk U.	140	4,000	3,486	93	10	0	411	0
Pepperdine U.	141	3,775	883	19	885	0	1,988	0
Trinity U.	142	3,657	1,345	5	1,117	0	1,149	41
Colorado C.	143	3,646	1,371	258	1,090	0	927	0
St. John's U., New York	144	3,592	2,456	0	326	195	387	228
Milwaukee School of Engineering	145	3,545	969	0	79	2,485	12	0
Pace U.	146	3,524	2,534	0	711	0	279	0
Alfred U.	147	3,477	1,008	1,659	517	264	29	0
St. Edward's U.	148	3,393	1,940	101	1,150	15	160	27
Azusa Pacific U.	149	3,389	282	266	2,680	0	161	0
Harvey Mudd C.	150	3,350	1,956	0	1,020	2	138	234
Hawaii Pacific U.	151	3,302	2,667	48	4	315	240	28
Biola U.	152	3,260	0	2	0	0	3,088	170
Hobart and William Smith Colleges	153	3,228	1,264	955	557	0	201	251
Calvin U.	154	3,169	931	12	559	24	1,376	267
Lawrence Technological U.	155	3,050	1,109	1,037	154	192	558	0
Davidson C.	156	2,788	1,370	4	702	31	542	139
Spelman C.	157	2,686	2,539	0	0	147	0	0
Johnson C. Smith U.	158	2,685	1,868	674	0	12	131	0
U. Richmond	159	2,670	1,624	0	529	0	476	41
U. San Francisco	160	2,657	547	265	1,123	0	717	5
Furman U.	161	2,650	1,280	22	1,069	25	169	85
Bowdoin C.	162	2,648	1,867	46	635	0	91	9
Middlebury C.	163	2,603	2,281	10	49	0	263	0
Pomona C.	164	2,589	1,217	12	1,238	0	122	0
Vassar C.	165	2,580	1,052	21	1,106	0	378	23
Lewis and Clark C.	166	2,566	746	0	1,522	0	298	0
Touro U., California	167	2,561	964	0	1,354	182	0	61
Franklin W. Olin C. of Engineering	168	2,554	809	0	698	82	882	83
Colby C.	169	2,530	1,466	0	573	0	243	248

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U. of St. Thomas (MN)	170	2,476	527	407	715	327	437	63
Bates C.	171	2,468	1,785	0	281	0	235	167
Tougaloo C.	172	2,336 i	2,336 i	0 i	0 i	0 i	0 i	0 i
Pratt Institute	173	2,325	228	995	5	0	1,097	0
Albany C. of Pharmacy and Health Sciences	174	2,276	1,110	0	769	250	147	0
Dillard U.	175	2,270	1,422	0	848	0	0	0
La Sierra U.	176	2,246	972	0	654	0	620	0
Willamette U.	177	2,183	791	0	1,344	0	48	0
Roger Williams U.	178	2,156	1,351	165	445	30	165	0
Mount Holyoke C.	179	2,112	1,511	0	285	0	316	0
Erikson Institute	180	2,068	815	178	125	0	950	0
U. of the Incarnate Word	181	2,064	1,078	0	886	8	92	0
Lafayette C.	182	2,059	1,300	0	605	32	110	12
Western New England U.	183	2,052	648	869	314	46	175	0
Palmer C. of Chiropractic, Davenport	184	2,050	1,550	0	500	0	0	0
Monmouth U.	185	1,938	535	505	93	407	397	1
Seattle U.	186	1,894	1,143	52	471	3	225	0
Hamilton C.	187	1,879	338	0	1,039	0	410	92
Connecticut C.	188	1,875	620	0	1,252	0	0	3
New England C. of Optometry	189	1,868	1,609	52	108	88	11	0
U. of the Pacific	190	1,835	1,351	413	NA	18	53	0
Babson C.	191	1,825	45	0	650	140	281	709
Elon U.	192	1,797	428	0	1,303	0	47	19
Skidmore C.	193	1,734	861	0	337	0	536	0
C. Wooster	194	1,717	737	0	797	0	183	0
Butler U.	195	1,691	1,227	0	216	113	135	0
Drake U.	195	1,691	1,211	89	150	177	64	0
Macalester C.	195	1,691	943	51	459	0	238	0
Manhattan C.	198	1,641	440	316	367	518	0	0
Trinity C., Hartford	199	1,620	1,049	0	533	4	34	0
Alaska Pacific U.	200	1,607	581	0	0	1,015	0	11
Marshall B. Ketchum U.	201	1,559 i	383 i	0 i	779 i	397 i	0 i	0 i
Union C., Schenectady	202	1,479	750	0	596	2	107	24
U. Ana G. Mendez, Gurabo	203	1,419	1,407	0	12	0	0	0

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Suffolk U.	204	1,401	340	0	996	0	65	0
Kenyon C.	205	1,330	1,021	0	162	0	123	24
Albion C.	206	1,300 i	323 i	0 i	977 i	0 i	0 i	0 i
Marymount U.	207	1,298	178	31	965	66	58	0
Saint John's U.	207	1,298 i	0 i	0 i	1,298 i	0 i	0 i	0 i
Keck Graduate Institute	209	1,282	643	0	153	165	321	0
Whitman C.	210	1,270	434	25	617	0	194	0
Northland C.	211	1,265 i	778 i	35 i	192 i	0 i	260 i	0 i
C. of Saint Benedict	212	1,228 i	51 i	0 i	1,177 i	0 i	0 i	0 i
Heidelberg U.	213	1,184	262	661	246	0	15	0
Clafin U.	214	1,179	1,179	0	0	0	0	0
Bentley U.	215	1,161	509	0	0	0	652	0
Canisius C.	216	1,160	454	0	0	0	706	0
U. Hartford	217	1,090	886	17	117	6	64	0
U. Puget Sound	218	1,051	780	0	174	0	97	0
Ithaca C.	219	1,000	703	46	149	0	23	79
Robert Morris U.	219	1,000 i	577 i	13 i	235 i	67 i	81 i	27 i
St. Catherine U.	221	933	300	0	83	30	364	156
Kettering U.	222	816	213	34	294	214	57	4
Augustana U.	223	724	724	0	0	0	0	0
Mercyhurst U.	224	661	82	387	59	108	6	19
California Lutheran U.	225	627	298	0	116	178	35	0
Sonoran U. Health Sciences	226	520	0	0	20	500	0	0
U. Charleston	227	217	217	0	0	0	0	0

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

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,056,063 thousand in total R&D expenditures in FY 2022.**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&amp;D expenditures, see table 6.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2022.