

TABLE 38

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2023

(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	-	37,679,964	22,588,213	457,879	8,217,019	2,485,756	2,937,701	993,396
Johns Hopkins U. ^a	1	3,801,585	3,324,551	10,271	164,758	126,685	168,401	6,919
U. Pennsylvania	2	1,953,617	936,469	27,849	642,815	203,003	134,455	9,026
Stanford U.	3	1,537,846	943,669	31,872	189,108	144,300	219,578	9,319
Duke U.	4	1,507,996	974,202	773	191,004	219,452	96,327	26,238
New York U.	5	1,457,424	787,204	9,599	327,502	73,289	118,376	141,454
Cornell U.	6	1,451,971	705,132	95,202	276,682	59,081	129,082	186,792
Harvard U.	7	1,435,218	639,953	4,250	488,906	71,497	202,605	28,007
Columbia U. in the City of New York	8	1,341,952	988,670	6,298	119,863	91,828	132,930	2,363
Yale U.	9	1,326,807	741,198	1,710	404,706	80,221	93,363	5,609
Vanderbilt U. and Vanderbilt U. Medical Center	10	1,253,156	751,019	3,821	357,729	86,265	39,591	14,731
Washington U., Saint Louis	11	1,168,861	758,464	571	188,985	129,843	89,041	1,957
U. Southern California	12	1,154,804	683,819	11,881	239,488	93,933	72,744	52,939
Northwestern U.	13	1,114,269	678,062	586	303,778	67,114	58,196	6,533
Emory U.	14	1,094,328	664,370	244	279,302	64,772	81,897	3,743
Massachusetts Institute of Technology	15	1,000,081	559,766	2,079	73,497	176,277	112,591	75,871
Icahn School of Medicine at Mount Sinai	16	972,476	658,916	8,359	147,069	80,437	62,202	15,493
Baylor C. of Medicine	17	847,305	440,345	34,061	282,695	33,100	57,104	0
Boston U.	18	773,200	409,551	500	230,370	23,362	93,532	15,885
U. Chicago	19	628,302	476,689	3,902	46,651	44,990	53,670	2,400
Case Western Reserve U.	20	553,740	431,736	11,202	80,506	4,659	23,331	2,306
Princeton U.	21	513,365	219,600	1,252	144,341	20,077	76,101	51,994
U. Miami	22	509,951	291,783	16,251	128,438	48,022	25,118	339
Scripps Research Institute	23	494,946	278,099	3,331	146,451	31,164	35,901	0
California Institute of Technology	24	490,672	310,519	3,870	53,950	35,867	29,024	57,442
Carnegie Mellon U.	25	484,757	279,954	3,623	128,082	47,152	15,669	10,277
U. Rochester	26	481,227	368,190	3,666	57,142	30,075	16,014	6,140
Rockefeller U.	27	385,168	101,422	101	244,237	3,089	35,953	366
Dartmouth C. and Dartmouth Hitchcock Medical Center	28	366,856	168,740	46	166,114	2,415	20,865	8,676
George Washington U.	29	360,260	162,892	1,890	141,746	5,655	30,534	17,543
Brown U.	30	353,591	239,744	32	63,031	6,120	34,721	9,943
Medical C. Wisconsin	31	346,691	155,403	754	113,726	38,419	33,075	5,314
Georgetown U.	32	337,006	127,370	1,719	87,408	17,345	68,114	35,050
Albert Einstein C. of Medicine	33	336,238	230,151	2,032	81,552	5,637	16,866	0

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U. Notre Dame	34	331,943	147,985	712	115,906	14,640	25,449	27,251
Wake Forest U.	35	308,972	204,713	7,673	26,886	33,508	23,868	12,324
Northeastern U.	36	288,558	186,013	3,336	68,663	11,524	18,604	418
Woods Hole Oceanographic Institution	37	287,825	238,554	882	15,591	5,431	10,476	16,891
Tulane U.	38	258,439	152,468	4,121	60,978	8,428	16,709	15,735
Thomas Jefferson U.	39	258,345	110,366	10,315	76,704	21,845	13,815	25,300
Rice U.	40	255,115	119,853	9,801	78,447	7,506	33,684	5,824
Tufts U.	41	247,276	154,458	2,328	33,998	15,988	29,439	11,065
U. Dayton	42	228,723	216,729	1,274	861	8,193	1,022	644
Syracuse U.	43	183,850	46,595	10,706	108,685	9,170	8,570	124
Drexel U.	44	169,583	108,724	4,464	43,396	1,727	8,475	2,797
Brigham Young U., Provo	45	137,748	31,216	1,145	99,661	2,980	2,649	97
Rush U.	46	132,394	93,180	2,208	12,316	16,533	8,157	0
Rensselaer Polytechnic Institute	47	121,706	56,445	3,289	45,192	10,959	3,123	2,698
Cold Spring Harbor Laboratory	48	117,483	54,123	209	38,367	3,914	20,870	0
Brandeis U.	49	103,653	46,654	406	41,318	661	10,730	3,884
Touro U., New York	50	100,547	40,008	0	7,152	53,387	0	0
Saint Louis U.	51	85,921	44,157	646	21,971	5,412	13,484	251
Howard U.	52	84,756	47,662	2,840	22,461	4,552	5,140	2,101
Baylor U.	53	82,074	17,147	2,879	45,076	3,460	12,667	845
Boston C.	54	81,425	39,356	2,517	18,254	974	19,273	1,051
Van Andel Research Institute	55	80,748	30,934	2,597	36,082	155	4,149	6,831
American U.	56	76,041	17,462	2,193	44,220	603	9,510	2,053
Rochester Institute of Technology	57	72,405	37,334	9,828	19,161	3,084	2,178	820
Worcester Polytechnic Institute	58	66,353	37,736	2,141	20,202	4,072	1,380	822
Stevens Institute of Technology	59	60,685	44,036	2,069	9,833	3,397	929	421
Southern Methodist U.	60	59,749	19,986	1,393	33,204	1,601	3,399	166
Morehouse School of Medicine	61	57,125	41,069	987	10,710	0	4,359	0
Lehigh U.	62	56,301	39,909	2,479	11,921	893	1,081	18
U. Denver	63	53,484	33,148	4,909	5,028	1,978	7,038	1,383
Loyola U., Chicago	64	52,445	29,712	242	12,892	4,302	4,062	1,235
Nova Southeastern U.	65	50,173	11,637	3,862	32,874	543	762	495
Marquette U.	66	47,819	20,055	246	18,010	879	2,385	6,244
Catholic U. of America	67	47,022	35,502	1,147	7,957	264	2,124	28

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Mercer U.	68	45,247	29,944	58	8,973	3,247	187	2,838
Chapman U.	69	41,791	10,015	303	23,533	383	7,481	76
Teachers C., Columbia U.	70	34,183	11,871	3,953	NA	1,428	14,239	2,692
Illinois Institute of Technology	71	33,021	28,027	154	2,045	1,292	858	645
Villanova U.	72	31,513	8,741	1,405	17,513	622	3,165	67
Creighton U.	73	28,443	12,681	3,943	9,597	1,033	467	722
Embry-Riddle Aeronautical U.	74	27,451	23,733	205	862	1,041	161	1,449
Tuskegee U.	75	25,625	16,023	3,565	2,539	0	0	3,498
Clarkson U.	76	25,399	10,611	3,910	9,214	1,093	406	165
U. Tulsa	77	24,845	8,545	306	8,079	6,766	1,149	0
Texas Christian U.	78	24,050	7,627	658	12,066	2,491	1,069	139
Fordham U.	79	23,832	4,687	0	16,377	3	1,957	808
Albany Medical C.	80	23,259	14,193	120	3,464	3,956	1,360	166
New School	81	22,680	1,337	708	3,483	56	16,080	1,016
Loma Linda U.	82	22,262	12,485	745	4,913	1,469	2,634	16
Meharry Medical C.	83	22,002	18,398	0	603	64	2,937	0
Charles R. Drew U. of Medicine and Science	84	19,551	13,297	886	3,758	0	1,610	0
New York Medical C.	85	17,113	8,226	1,326	1,064	3,319	2,169	1,009
Florida Institute of Technology	86	16,859	11,520	768	4,253	142	176	0
Long Island U.	87	16,612	1,993	0	13,844	90	569	116
Xavier U. Louisiana	88	15,519	12,833	722	1,161	0	803	0
Duquesne U.	89	14,989	6,555	1,055	4,349	275	2,755	0
Loyola Marymount U.	90	14,086	2,921	1,096	7,708	84	2,277	0
DePaul U.	91	13,267	5,592	807	3,512	372	2,911	73
U. San Diego	92	12,902	3,501	684	7,498	69	542	608
Midwestern U.	93	12,725	2,862	92	9,430	76	265	0
Rosalind Franklin U. of Medicine and Science	94	11,629	7,124	62	3,270	565	608	0
Clark U.	95	11,539	2,235	231	5,610	81	1,804	1,578
Wesleyan U.	96	10,828	5,955	0	3,515	221	688	449
Pacific U.	97	10,719	7,133	1,098	2,053	70	365	0
Pepperdine U.	98	10,632	674	1	7,179	0	2,771	7
Clark Atlanta U.	99	10,320	7,687	0	2,523	79	31	0
Gallaudet U.	100	9,894	5,523	25	3,462	0	526	358
Hampton U.	101	9,769	9,445	0	324	0	0	0

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U. San Francisco	102	9,633	1,015	532	6,848	0	279	959
Bryn Mawr C.	103	9,039	1,289	0	7,105	16	629	0
Western U. of Health Sciences	104	8,929	6,099	1,635	238	457	500	0
Saint Joseph's U.	105	8,675	2,680	1,129	1,657	2,517	434	258
Yeshiva U.	106	8,661	1,229	0	6,104	0	1,008	320
Abilene Christian U.	107	8,182	946	0	194	6,934	108	0
Hofstra U.	108	8,162	1,995	237	5,786	0	144	0
Amherst C.	109	8,152	2,869	0	3,104	0	235	1,944
Edward Via C. of Osteopathic Medicine	110	7,597	678	136	6,699	0	84	0
Grinnell C.	110	7,597	1,082	0	5,816	0	239	460
Philadelphia C. of Osteopathic Medicine	112	7,459	442	59	2,848	2,547	1,563	0
MGH Institute of Health Professions	113	7,426	6,200	0	20	0	1,206	0
Claremont Graduate U.	114	7,262	1,422	354	984	2,709	1,228	565
Seton Hall U.	115	7,068	2,778	2,633	1,195	104	211	147
Claremont McKenna C.	116	6,925	1,035	62	5,293	0	485	50
Hope C.	117	6,910	3,639	0	1,678	0	1,308	285
U. New England	118	6,756	4,777	2	1,548	29	395	5
Reed C.	119	6,750 i	2,420 i	44 i	3,745 i	0 i	391 i	150 i
Williams C.	120	6,448 i	1,455 i	0 i	2,164 i	0 i	178 i	2,651 i
Barnard C.	121	6,320	4,235	0	1,006	8	1,071	0
Wellesley C.	121	6,320	2,921	449	NA	80	2,628	242
Azusa Pacific U.	123	6,097	140	40	5,545	35	273	64
Roseman U. of Health Sciences	124	6,065	38	0	5,953	67	7	0
Smith C.	125	5,954	3,013	0	2,179	253	509	0
High Tech High Graduate School of Ed.	126	5,939	0	0	0	0	5,939	0
Bucknell U.	127	5,887	2,359	61	2,031	299	235	902
New York Institute of Technology	128	5,790	3,252	125	2,146	60	207	0
Morehouse C.	129	5,750	5,750	0	NA	0	0	0
Santa Clara U.	130	5,679	3,448	372	NA	364	1,424	71
Swarthmore C.	131	5,620	2,315	6	2,578	0	697	24
Providence C.	132	5,533	4,648	0	582	0	303	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	133	5,324	273	0	5,021	0	30	0
Trinity U.	134	5,296	2,203	2	1,238	0	1,834	19
Suffolk U.	135	5,164	893	737	3,303	0	231	0

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U. Detroit Mercy	136	5,142	4,434	0	529	140	39	0
Colgate U.	137	4,930	1,521	0	3,041	305	63	0
U. Central del Caribe	138	4,878	2,929	524	1,270	0	0	155
Spelman C.	139	4,877	4,567	0	0	0	310	0
Fisk U.	140	4,867	3,819	240	304	0	504	0
Sacred Heart U.	141	4,733	639	0	3,892	0	202	0
Occidental C.	142	4,718 i	2,967 i	559 i	NA	554 i	638 i	0 i
Toyota Technological Institute, Chicago	143	4,636	2,127	0	1,633	321	463	92
Lawrence Technological U.	144	4,632	1,786	937	784	183	942	0
Colby C.	145	4,454	3,011	0	580	0	356	507
U. of Health Sciences and Pharmacy in St. Louis	146	4,343	3,110	0	1,060	84	89	0
Carleton C.	147	4,185	2,800	0	483	0	902	0
Alfred U.	148	4,154	1,958	1,596	242	330	28	0
Pomona C.	149	4,149	1,205	0	2,659	0	285	0
Franklin and Marshall C.	150	4,111	1,469	241	1,273	371	543	214
Trinity C., Hartford	151	4,099	687	0	3,330	7	75	0
Haverford C.	152	4,088	2,344	0	955	0	270	519
Keck Graduate Institute	153	4,059	2,338	4	388	634	354	341
Pace U.	154	4,056	2,698	20	1,101	0	237	0
St. John's U., New York	155	3,955	2,792	0	450	341	232	140
Seattle U.	156	3,949	1,165	78	2,223	55	428	0
Des Moines U.	157	3,932	556	7	3,225	0	144	0
Harvey Mudd C.	158	3,682	1,968	0	1,389	0	161	164
U. New Haven	159	3,602	2,227	629	204	24	487	31
Roger Williams U.	160	3,465	1,973	102	912	72	406	0
Bowdoin C.	161	3,339	2,186	71	901	0	102	79
Milwaukee School of Engineering	162	3,317	722	0	71	2,509	15	0
Hamilton C.	163	3,285	413	0	1,813	0	819	240
U. Richmond	164	3,058	1,379	0	1,218	0	436	25
Marian U., Indianapolis	165	3,009	918	0	1,709	18	172	192
Middlebury C.	166	2,975	2,564	10	25	0	376	0
Davidson C.	167	2,926	1,340	11	915	12	492	156
Hawaii Pacific U.	168	2,913	1,942	0	179	438	344	10
Touro U., California	169	2,877	1,279	0	1,405	79	0	114

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Lewis and Clark C.	170	2,686	776	1	1,590	0	319	0
Tougaloo C.	171	2,663 i	2,643 i	4 i	4 i	4 i	4 i	4 i
Marymount U.	172	2,601	396	29	1,983	0	193	0
Vassar C.	173	2,596	1,204	20	872	0	490	10
Albany C. of Pharmacy and Health Sciences	174	2,594 i	1,256 i	0 i	882 i	287 i	169 i	0 i
Calvin U.	175	2,555	854	68	330	0	1,060	243
Elon U.	176	2,544	479	0	1,989	0	20	56
Mount Holyoke C.	177	2,533	1,612	125	504	0	292	0
Monmouth U.	178	2,517	762	657	280	168	612	38
Colorado C.	179	2,498	611	0	1,000	0	887	0
La Sierra U.	180	2,496 i	1,066 i	0 i	734 i	0 i	696 i	0 i
New England C. of Optometry	181	2,491	1,946	56	30	390	69	0
Franklin W. Olin C. of Engineering	182	2,450	641	0	639	230	837	103
Erikson Institute	183	2,414	1,245	0	178	0	991	0
Wheaton C., Wheaton	184	2,403	428	0	966	5	1,004	0
Skidmore C.	185	2,384	1,288	0	510	0	586	0
Hobart and William Smith Colleges	186	2,373	1,019	526	572	0	136	120
Benedict C.	187	2,307	1,665	0	0	635	7	0
Dillard U.	188	2,296	1,228	117	951	0	0	0
U. of St. Thomas (MN)	189	2,280	531	499	578	255	277	140
Furman U.	190	2,267	1,300	32	482	128	308	17
U. of the Incarnate Word	191	2,245	1,086	0	1,050	54	55	0
C. Wooster	192	2,209	594	0	775	0	840	0
U. Ana G. Mendez, Gurabo	193	2,132	2,132	0	0	0	0	0
Bates C.	194	2,118	1,455	0	349	0	272	42
Lafayette C.	195	1,991	1,141	23	687	5	135	0
U. of the Pacific	196	1,972	1,300	586	NA	9	77	0
Babson C.	197	1,957	224	0	758	78	131	766
Lipscomb U.	198	1,946	309	0	1,571	8	58	0
Macalester C.	199	1,935	1,094	58	508	0	275	0
Liberty U.	200	1,900	532	5	1,315	48	0	0
Union C., Schenectady	201	1,881	729	0	1,048	17	34	53
Alaska Pacific U.	202	1,823	627	0	0	1,173	0	23
Marshall B. Ketchum U.	203	1,777 i	433 i	0 i	890 i	454 i	0 i	0 i

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Palmer C. of Chiropractic, Davenport	204	1,725	1,500	0	225	0	0	0
Drake U.	205	1,724	954	368	340	34	26	2
St. Olaf C.	205	1,724	933	0	686	0	105	0
Lincoln Memorial U.	207	1,641	2	0	1,589	4	46	0
Norwich U.	208	1,637	1,366	5	261	0	5	0
U. Puget Sound	209	1,613	1,300	0	138	0	175	0
Johnson C. Smith U.	210	1,602	1,554	0	48	0	0	0
Bentley U.	211	1,589	802	0	0	18	751	18
Whitman C.	212	1,568	449	0	676	0	443	0
Merrimack C.	213	1,560	892	0	336	0	247	85
Pratt Institute	214	1,558	50	878	0	0	630	0
Willamette U.	215	1,542	490	0	961	0	91	0
U. Hartford	216	1,533	1,269	8	203	3	50	0
Hartford International U. for Religion and Peace	217	1,485	0	0	0	0	1,485	0
Fairfield U.	218	1,484	180	0	751	0	553	0
Saint John's U.	219	1,479 i	0 i	0 i	1,479 i	0 i	0 i	0 i
Biola U.	220	1,461	0	0	9	0	1,298	154
Northland C.	221	1,442 i	880 i	40 i	222 i	0 i	300 i	0 i
Connecticut C.	222	1,440	648	0	575	0	211	6
Robert Morris U.	223	1,419	664	79	632	22	22	0
Clafin U.	224	1,418	1,418	0	0	0	0	0
Oberlin C.	225	1,408	880	9	463	1	55	0
C. of Saint Benedict	226	1,400 i	58 i	0 i	1,342 i	0 i	0 i	0 i
Butler U.	227	1,396	1,077	0	199	20	100	0
United Tribes Technical C.	228	1,387	1,337	19	0	0	31	0
Kenyon C.	229	1,371	1,092	0	147	0	132	0
National U. of Natural Medicine	230	1,336	862	0	305	169	0	0
St. Edward's U.	231	1,334	315	186	762	0	71	0
Arcadia U.	232	1,321	772	182	0	0	367	0
Andrews U.	233	1,255	445	0	721	0	89	0
Heidelberg U.	234	1,254	197	799	243	0	15	0
Manhattan C.	235	1,250	422	222	460	146	0	0
U. Scranton	236	1,169	866	2	212	20	69	0
Ursinus C.	237	1,150	942	112	0	0	96	0

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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
Western New England U.	238	1,115	538	54	302	89	132	0
Gettysburg C.	239	1,099	517	0	146	0	204	232
Gustavus Adolphus C.	240	969	467	9	107	181	54	151
Canisius U.	241	905	411	0	0	0	494	0
Ithaca C.	242	861	453	130	178	0	42	58
Bryant U.	243	558	436	0	122	0	0	0
Albion C.	244	276	226	0	0	50	0	0

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

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.**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 2023.