

TABLE 38

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2021

(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	-	31,056,069	19,040,045	380,383	6,403,768	2,031,949	2,429,532	770,392
Johns Hopkins U. ^a	1	3,181,385	2,774,643	4,677	147,355	103,162	145,027	6,521
U. Pennsylvania	2	1,631,950	792,089	20,733	511,958	190,755	111,885	4,530
Stanford U.	3	1,274,483	811,183	17,802	136,444	113,691	186,565	8,798
Harvard U.	4	1,254,008	616,589	5,137	384,197	55,357	172,327	20,401
Duke U.	5	1,237,686	776,632	1,073	153,692	187,864	98,223	20,202
Cornell U.	6	1,183,524	592,359	87,821	220,800	43,950	115,910	122,684
Yale U.	7	1,165,148	647,656	4,859	334,314	76,784	92,343	9,192
Columbia U. in the City of New York	8	1,098,570	831,648	7,173	79,363	71,239	106,884	2,263
New York U.	9	1,063,704	547,027	13,191	243,805	51,800	90,401	117,480
Vanderbilt U. and Vanderbilt U. Medical Center	10	1,019,273	586,880	2,897	313,810	81,360	31,526	2,800
Washington U., Saint Louis	11	989,214	606,127	1,471	188,980	105,176	85,060	2,400
U. Southern California	12	955,565	574,185	14,664	179,130	61,867	56,073	69,646
Massachusetts Institute of Technology	13	949,076	483,526	3,213	116,258	177,759	92,386	75,934
Northwestern U.	14	913,178	572,975	141	227,719	54,888	47,280	10,175
Emory U.	15	852,922	515,940	298	213,741	58,517	62,768	1,658
Icahn School of Medicine at Mount Sinai	16	820,260	554,582	5,500	137,874	59,235	48,289	14,780
Baylor C. of Medicine	17	716,976	365,472	34,447	239,079	29,465	48,513	0
Boston U.	18	652,096	402,443	501	160,347	20,071	45,146	23,588
U. Chicago	19	497,651	394,275	3	32,174	38,215	32,167	817
Scripps Research Institute	20	485,435	272,181	2,103	147,290	22,399	41,462	0
California Institute of Technology	21	438,624	293,197	8,142	50,562	17,193	47,355	22,175
Case Western Reserve U.	22	421,868	340,438	4,557	50,526	4,035	19,766	2,546
U. Rochester	23	409,255	309,647	3,074	41,775	34,036	15,949	4,774
Princeton U.	24	404,448	205,000	281	86,675	20,200	57,700	34,592
Carnegie Mellon U.	25	402,376	234,993	3,675	114,892	34,473	10,503	3,840
U. Miami	26	375,841	231,001	15,057	69,955	34,768	24,311	749
Rockefeller U.	27	357,543	96,318	656	218,134	3,210	38,301	924
Dartmouth C. and Dartmouth Hitchcock Medical Center	28	330,226	152,335	1,446	144,008	4,723	19,660	8,054
Albert Einstein C. of Medicine	29	301,715	214,619	1,764	67,563	4,184	13,585	0
Georgetown U.	30	279,932	130,419	1,405	51,440	16,888	57,585	22,195
Medical C. Wisconsin	31	276,850	136,385	640	85,666	23,118	25,747	5,294
Brown U.	32	276,331	198,574	28	50,127	4,925	19,410	3,267

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George Washington U.	33	266,108	161,349	2,296	63,225	4,155	26,131	8,952
Wake Forest U.	34	264,216	188,887	12,370	23,080	15,449	16,849	7,581
Woods Hole Oceanographic Institution	35	262,048	222,351	1,029	16,006	2,804	9,792	10,066
U. Notre Dame	36	240,324	109,891	665	84,208	13,499	17,293	14,768
Tufts U.	37	224,956	166,809	3,242	15,442	8,655	26,955	3,853
Northeastern U.	38	211,342	143,421	2,227	44,964	9,547	10,718	465
Rice U.	39	207,404	95,648	7,372	62,352	7,123	30,638	4,271
Tulane U.	40	205,206	113,819	4,442	49,660	8,279	15,569	13,437
Thomas Jefferson U.	41	200,393	109,448	2,542	47,728	18,591	10,704	11,380
U. Dayton	42	191,228	181,445	425	2,288	6,277	272	521
Drexel U.	43	152,752	93,517	4,601	36,063	3,196	8,682	6,693
Syracuse U.	44	151,717	34,200	4,328	96,162	6,481	10,501	45
Rensselaer Polytechnic Institute	45	119,056	52,465	3,714	40,932	16,432	1,917	3,596
Cold Spring Harbor Laboratory	46	114,903	56,907	21	35,757	3,333	18,885	0
Brandeis U.	47	107,549	52,147	404	34,998	1,418	9,045	9,537
Rush U.	48	107,398	73,279	1,338	9,645	15,329	7,807	0
Saint Louis U.	49	79,005	41,411	548	24,824	3,614	8,537	71
American U.	50	65,912	12,076	513	42,117	774	9,199	1,233
Van Andel Research Institute	51	65,789	22,231	703	32,688	90	3,610	6,467
Boston C.	52	65,156	34,257	1,632	12,870	522	15,071	804
Rochester Institute of Technology	53	56,043	31,187	5,213	15,139	2,563	558	1,383
Howard U.	54	52,412	35,443	1,176	12,094	2,860	839	0
Mercer U.	55	51,989	34,413	76	9,056	5,342	82	3,020
Baylor U.	56	48,809	11,025	1,892	26,678	3,116	4,510	1,588
Worcester Polytechnic Institute	57	48,702	30,166	1,262	9,301	3,296	2,533	2,144
Loyola U., Chicago	58	44,036	26,793	188	8,941	3,359	3,695	1,060
Brigham Young U., Provo	59	43,916	30,439	1,217	6,514	3,592	1,772	382
Stevens Institute of Technology	60	43,386	33,998	1,642	5,491	1,403	675	177
Southern Methodist U.	61	41,960	17,886	1,039	18,643	2,072	2,144	176
Lehigh U.	62	41,279	29,051	2,243	8,806	531	613	35
U. Denver	63	38,751	23,415	951	6,869	1,740	5,281	495
Marquette U.	64	37,087	13,918	365	14,809	947	2,042	5,006
Catholic U. of America	65	35,548	23,128	150	5,753	624	1,013	4,880

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Morehouse School of Medicine	66	32,637	25,181	611	3,622	0	3,223	0
Illinois Institute of Technology	67	29,698	24,762	291	2,080	1,074	861	630
Chapman U.	68	25,820	8,574	612	10,273	567	5,766	28
Villanova U.	69	24,723	5,826	1,372	15,623	381	1,368	153
Nova Southeastern U.	70	24,513	10,386	3,636	9,152	486	629	224
Teachers C., Columbia U.	71	24,335	8,521	700	NA	1,700	10,914	2,500
Ponce Health Sciences U.	72	23,297	18,284	685	2,472	1,683	173	0
Creighton U.	73	23,251	8,585	4,347	7,115	1,478	542	1,184
Florida Institute of Technology	74	23,195	13,049	1,743	6,485	824	703	391
Albany Medical C.	75	22,443	13,166	0	3,324	3,788	709	1,456
Tuskegee U.	76	21,355	15,424	2,676	2,724	0	0	531
Embry-Riddle Aeronautical U.	77	19,830	14,859	103	1,365	1,195	426	1,882
New York Medical C.	78	18,872	10,739	1,098	794	4,002	1,503	736
Clarkson U.	79	16,765	7,246	1,426	5,725	1,147	871	350
Fordham U.	80	16,731	4,076	25	10,871	83	1,011	665
U. Tulsa	81	16,449	5,876	361	2,454	7,397	320	41
Meharry Medical C.	82	15,840	13,784	0	565	1	1,490	0
Texas Christian U.	83	15,336	4,448	438	8,684	1,670	23	73
Long Island U.	84	15,059	2,686	0	12,040	36	271	26
New School	85	14,281	1,324	86	2,762	30	7,709	2,370
Loma Linda U.	86	14,029	10,116	444	1,932	241	1,160	136
Rosalind Franklin U. of Medicine and Science	87	13,805	9,357	0	3,219	520	705	4
Charles R. Drew U. of Medicine and Science	88	13,228	9,945	151	2,834	0	298	0
Loyola Marymount U.	89	12,819	2,170	1,393	8,148	20	1,088	0
Xavier U. Louisiana	90	12,799	11,213	709	702	0	175	0
Hampton U.	91	11,669	11,517	0	152	0	0	0
Midwestern U.	92	10,961	1,506	22	9,040	178	215	0
Duquesne U.	93	10,521	5,020	1,138	2,788	146	1,429	0
St. Edward's U.	94	9,527	7,600	800	1,030	15	31	51
Bryn Mawr C.	95	8,987	1,429	0	7,285	18	255	0
Clark Atlanta U.	96	8,892	5,355	0	3,435	57	45	0
Wesleyan U.	97	8,009	4,032	0	3,004	62	854	57
Clark U.	98	7,931	2,754	74	3,633	0	1,431	39

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U. San Diego	99	7,580	2,554	26	4,203	0	414	383
Claremont Graduate U.	100	7,235	1,152	306	1,275	1,518	2,355	629
Western U. of Health Sciences	101	6,688	5,620	312	124	365	260	7
DePaul U.	102	6,675	4,518	150	1,120	203	666	18
Edward Via C. of Osteopathic Medicine	103	6,629	537	0	5,879	31	182	0
Wellesley C.	104	6,252	3,469	204	NA	138	2,024	417
U. New England	105	6,234	3,864	6	2,022	89	253	0
Philadelphia C. of Osteopathic Medicine	106	6,186	318	55	2,837	1,220	1,756	0
Gallaudet U.	107	6,126	2,140	192	3,049	0	327	418
Roseman U. of Health Sciences	108	5,985	53	0	5,775	65	1	91
Hofstra U.	109	5,545	1,266	92	4,023	0	162	2
Colorado C.	110	5,467	3,725	385	575	0	782	0
Yeshiva U.	111	5,452	1,509	0	2,843	0	256	844
Seton Hall U.	112	5,320	2,137	1,977	730	95	381	0
Azusa Pacific U.	113	5,318	212	59	4,893	2	152	0
U. of Health Sciences and Pharmacy in St. Louis	114	5,313	4,063	0	759	462	29	0
Des Moines U.	115	5,258 i	485 i	266 i	4,247 i	3 i	257 i	0 i
Hope C.	116	5,211	1,992	493	1,463	0	1,207	56
U. of St. Thomas (MN)	117	5,146	1,321	66	1,213	1,690	559	297
Reed C.	118	5,132 i	1,916 i	32 i	2,782 i	0 i	291 i	111 i
High Tech High Graduate School of Ed.	119	5,032	0	0	0	0	5,032	0
Toyota Technological Institute, Chicago	120	4,967	3,090	0	1,602	232	43	0
Williams C.	121	4,902 i	1,152 i	0 i	1,625 i	0 i	134 i	1,991 i
Pacific U.	122	4,690	2,072	269	1,480	100	769	0
Amherst C.	123	4,636	1,375	0	1,895	0	71	1,295
Barnard C.	124	4,632	3,527	0	718	22	365	0
Abilene Christian U.	125	4,597	827	0	199	3,546	25	0
U. Detroit Mercy	126	4,578	3,917	0	649	12	0	0
Morehouse C.	127	4,533	4,533	0	0	0	0	0
Claremont McKenna C.	128	4,515	637	0	3,548	0	330	0
Bucknell U.	129	4,476	1,696	0	1,439	311	203	827
New York Institute of Technology	130	4,465	1,988	142	2,069	0	266	0
Fisk U.	131	4,320	3,940	24	0	0	356	0

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Grinnell C.	132	4,122	344	0	3,379	0	192	207
Smith C.	133	4,085	2,433	16	1,118	74	436	8
U. New Haven	134	4,069	2,069	434	209	418	832	107
U. of the Sciences Philadelphia	135	4,005	1,320	213	1,170	1,155	147	0
Haverford C.	136	3,835	2,455	0	631	0	308	441
U. Central del Caribe	137	3,831	2,492	223	1,050	0	0	66
Carleton C.	138	3,800	1,499	6	1,948	0	229	118
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	139	3,776	376	0	3,337	0	26	37
Franklin and Marshall C.	140	3,722	1,363	209	1,622	279	61	188
Albany C. of Pharmacy and Health Sciences	141	3,687	1,900	0	963	715	109	0
Pace U.	142	3,649	2,536	0	819	1	293	0
Occidental C.	143	3,587	2,348	395	NA	392	452	0
Touro U.	144	3,489	1,377	0	2,091	20	1	0
Colgate U.	145	3,306	1,440	0	1,515	75	261	15
Swarthmore C.	146	3,296	1,414	0	1,571	1	310	0
Milwaukee School of Engineering	147	3,193	751	10	54	2,377	1	0
Santa Clara U.	148	3,142	1,930	118	NA	558	536	0
MGH Institute of Health Professions	149	3,037	2,500	0	30	0	507	0
St. John's U., New York	150	2,940	1,950	0	254	200	393	143
Middlebury C.	151	2,927	2,639	0	17	0	261	10
Saint Joseph's U.	152	2,922	1,158	673	872	134	85	0
Trinity U.	153	2,905	1,078	29	812	5	913	68
Alfred U.	154	2,660	939	1,040	449	149	83	0
Pepperdine U.	155	2,655	835	16	1,444	0	355	5
Bates C.	156	2,620	2,079	0	188	0	165	188
Pratt Institute	157	2,547	294	835	38	0	1,380	0
Dillard U.	158	2,528	1,257	0	1,271	0	0	0
Davidson C.	159	2,466	1,151	7	771	24	421	92
Johnson C. Smith U.	160	2,461	2,365	52	0	4	40	0
Furman U.	161	2,431	1,028	2	1,259	15	77	50
Bowdoin C.	162	2,417	1,836	6	440	0	135	0
Harvey Mudd C.	163	2,359	1,443	0	695	11	98	112

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Skidmore C.	164	2,335	1,739	0	245	0	351	0
Marymount U.	165	2,307	337	125	1,779	0	66	0
U. Richmond	166	2,294	1,534	0	370	0	390	0
Spelman C.	167	2,282	1,886	0	279	117	0	0
Lewis and Clark C.	168	2,281	702	0	1,319	0	260	0
Keck Graduate Institute	169	2,254 i	1,201 i	0 i	697 i	144 i	35 i	177 i
Palmer C. of Chiropractic, Davenport	170	2,233	1,733	0	500	0	0	0
Pomona C.	171	2,146	930	9	1,140	0	67	0
Tougaloo C.	172	2,092 i	2,092 i	0 i	0 i	0 i	0 i	0 i
Suffolk U.	173	2,043	634	0	1,261	0	148	0
Elon U.	174	2,032	138	0	1,883	0	11	0
Mount Holyoke C.	175	2,026	1,539	0	200	0	287	0
U. of the Incarnate Word	176	1,982	1,076	0	785	83	38	0
New England C. of Optometry	177	1,978	1,623	26	149	175	5	0
Hobart and William Smith Colleges	178	1,941	758	662	391	0	73	57
Mercyhurst U.	179	1,937 i	745 i	584 i	608 i	0 i	0 i	0 i
Manhattan C.	180	1,864	397	505	406	556	0	0
Roger Williams U.	181	1,854	1,202	34	460	11	147	0
Hawaii Pacific U.	182	1,849	1,741	36	36	0	36	0
Willamette U.	183	1,817	896	33	761	0	127	0
Trinity C., Hartford	184	1,775	1,348	0	409	0	18	0
Lawrence Technological U.	185	1,764	284	701	2	434	343	0
Hamilton C.	186	1,747	286	0	827	0	374	260
Heidelberg U.	187	1,725	308	1,092	303	0	22	0
Erikson Institute	188	1,723	772	16	31	0	904	0
Colby C.	189	1,672	750	0	427	0	495	0
Monmouth U.	190	1,667	174	778	75	25	601	14
Franklin W. Olin C. of Engineering	191	1,627	636	0	478	15	481	17
Vassar C.	192	1,606	918	21	455	0	209	3
U. Ana G. Mendez, Gurabo	193	1,574	926	0	648	0	0	0
Seattle U.	194	1,562	1,102	54	129	0	270	7
La Sierra U.	195	1,517	812	0	137	0	568	0
Calvin U.	196	1,490 i	942 i	27 i	5 i	83 i	158 i	275 i

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Drake U.	197	1,488	1,016	8	157	233	74	0
Union C., Schenectady	198	1,396	976	0	340	7	64	9
U. San Francisco	199	1,375	255	200	466	0	434	20
U. of the Pacific	200	1,371	1,106	211	NA	11	43	0
Marshall B. Ketchum U.	201	1,351 i	343 i	0 i	668 i	340 i	0 i	0 i
Kettering U.	202	1,315	353	7	586	314	55	0
Babson C.	203	1,286	0	0	566	160	293	267
Macalester C.	204	1,280	617	4	568	0	91	0
U. Hartford	205	1,252	766	0	361	5	120	0
Connecticut C.	206	1,244	439	0	785	0	20	0
Biola U.	207	1,243 i	714 i	18 i	302 i	80 i	98 i	31 i
Doane U.	208	1,176 i	1,034 i	0 i	127 i	0 i	15 i	0 i
Albion C.	209	1,127 i	289 i	0 i	838 i	0 i	0 i	0 i
Saint John's U.	210	1,125 i	0 i	0 i	1,125 i	0 i	0 i	0 i
Northland C.	211	1,096 i	697 i	29 i	157 i	0 i	213 i	0 i
C. Wooster	212	1,071 i	300 i	0 i	683 i	0 i	88 i	0 i
C. of Saint Benedict	213	1,064 i	46 i	0 i	1,018 i	0 i	0 i	0 i
Alaska Pacific U.	214	1,036	189	0	0	817	17	13
Canisius C.	214	1,036	597	0	0	0	439	0
Ithaca C.	216	1,030	685	51	224	5	35	30
Clafin U.	217	1,015	1,005	0	0	0	10	0
Lafayette C.	217	1,015	508	4	417	0	75	11
Augustana U.	219	1,013	1,013	0	0	0	0	0
Sacred Heart U.	220	972	675	0	244	0	53	0
Rhode Island School of Design	221	971 i	250 i	41 i	416 i	215 i	49 i	0 i
Liberty U.	222	937	120	75	657	68	17	0
Arcadia U.	223	889	371	289	0	0	229	0
Mills C.	224	850	683	0	0	0	129	38
National U. of Natural Medicine	224	850	523	0	195	132	0	0
Fairfield U.	226	849	147	0	354	0	348	0
Fielding Graduate U.	227	843	791	0	52	0	0	0
St. Olaf C.	228	816	271	0	520	0	25	0
Andrews U.	229	802	256	3	441	0	102	0

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Oberlin C.	230	776	505	0	160	67	44	0
Providence C.	231	766	574	0	124	0	68	0
Wheaton C., Wheaton	232	729	148	0	327	0	254	0
Dordt U.	233	696	594	0	88	0	14	0
Niagara U.	234	509	34	78	194	0	203	0
Albizu U.	235	428	0	126	272	0	0	30
Lipscomb U.	236	321	222	0	0	22	77	0

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

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.**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 2021.