

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
All institutions	-	23,991,344	25,778,953	27,293,004	28,026,662	12,688,424	13,395,870	14,194,037	14,733,751
U. California, San Francisco	1	1,329,729	1,531,475	1,526,889	1,579,053	560,981	633,646	631,806	634,237
U. California, Los Angeles	2	727,928	879,537	887,293	955,580	305,734	367,948	393,177	437,643
U. California, San Diego	3	623,952	724,886	754,309	765,869	351,985	362,520	372,590	377,281
Johns Hopkins U. ^a	4	664,206	703,372	727,074	736,373	448,573	473,490	478,556	492,957
Yale U.	5	606,423	632,347	691,959	726,089	335,422	333,155	350,340	367,588
Duke U.	6	696,085	718,370	749,965	717,323	317,058	323,754	355,135	353,311
U. North Carolina, Chapel Hill	7	634,348	668,660	680,788	700,352	358,446	374,638	387,808	398,199
U. Washington, Seattle	8	583,219	620,609	655,372	660,692	433,509	465,210	486,924	489,241
U. Pittsburgh, Pittsburgh	9	533,779	583,096	641,144	659,733	346,257	373,157	396,027	400,747
U. Texas M. D. Anderson Cancer Center	10	515,115	584,317	612,732	654,098	75,715	81,643	80,140	90,726
U. Michigan, Ann Arbor	11	548,211	578,171	632,969	622,140	288,532	315,198	339,982	333,024
Stanford U.	12	518,631	553,597	614,159	572,268	309,625	318,415	349,539	323,047
Emory U.	13	410,773	451,672	524,939	535,117	203,654	216,736	236,157	264,862
Columbia U. in the City of New York	14	424,385	485,235	524,495	531,123	295,322	340,645	379,363	391,314
U. Colorado Denver and Anschutz Medical Campus	15	461,099	498,031	515,832	525,897	297,965	316,032	336,438	331,959
U. Minnesota, Twin Cities	16	393,519	410,600	461,261	474,705	207,950	206,667	225,592	231,480
Washington U., Saint Louis	17	375,626	403,124	442,275	465,122	225,836	245,508	264,808	272,506
U. Wisconsin-Madison	18	427,141	440,649	472,274	451,868	171,345	171,827	185,312	177,594
Northwestern U.	19	370,779	406,467	446,421	451,059	223,384	246,040	270,784	287,948
Vanderbilt U. and Vanderbilt U. Medical Center	20	377,186	388,100	408,035	441,313	278,516	282,113	287,597	303,327
U. Southern California	21	334,385	428,328	408,849	427,949	160,048	183,001	198,583	215,128
Ohio State U.	22	373,520	372,386	406,318	422,365	202,499	200,597	211,721	225,112
U. Alabama, Birmingham	23	370,391	388,367	396,340	409,345	222,532	232,933	246,156	242,728
New York U.	24	288,035	361,753	377,195	389,211	182,580	184,518	196,303	203,772
Icahn School of Medicine at Mount Sinai	25	299,743	339,870	363,092	387,114	207,630	229,460	244,978	272,264

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Indiana U., Bloomington	26	264,892	282,830	341,217	384,331	108,121	116,415	154,864	183,742
U. Texas Southwestern Medical Center	27	300,916	294,403	310,308	377,001	125,217	125,321	128,317	154,128
Baylor C. of Medicine	28	285,876	313,453	353,039	374,095	100,911	110,484	137,666	148,425
Cornell U.	29	265,474	309,881	336,554	370,944	99,175	117,383	137,876	161,371
U. Maryland ^b	30	na	na	378,537	366,476	na	na	237,875	215,647
U. Cincinnati	31	294,860	317,083	362,786	363,772	181,627	189,481	191,320	223,432
U. Utah	32	168,137	345,008	321,728	361,988	107,234	182,554	151,742	177,544
U. Florida	33	277,111	324,898	342,498	327,963	122,017	135,856	143,967	142,251
U. Pennsylvania	34	262,444	270,535	301,611	326,566	141,807	147,038	153,088	153,364
Rutgers, State U. New Jersey, New Brunswick	35	294,485	347,582	294,976	319,113	149,545	152,341	122,619	131,115
Uniformed Services U. of the Health Sciences	36	281,653	296,793	405,214	315,313	193,133	210,618	288,742	228,596
Albert Einstein C. of Medicine	37	289,685	297,328	298,824	288,654	188,259	196,457	202,513	204,635
U. Iowa	38	245,202	255,499	260,702	284,636	113,744	114,237	118,355	123,855
Case Western Reserve U.	39	259,950	277,399	284,229	283,260	210,009	227,254	237,106	231,431
Oregon Health and Science U.	40	167,286	175,814	177,687	265,157	116,566	123,389	134,016	184,045
Wake Forest U.	41	177,041	186,333	227,411	232,490	143,340	149,776	161,380	162,023
U. California, Davis	42	198,317	211,803	215,845	229,577	104,708	108,091	113,073	122,802
U. Illinois, Chicago	43	201,986	193,010	207,754	222,385	110,026	107,797	116,209	128,953
Texas A&M U., College Station and Health Science Center	44	96,928	78,732	77,896	220,948	32,046	26,916	29,277	171,384
U. Chicago	45	196,083	192,128	212,930	219,525	129,641	127,596	146,121	163,943
U. Miami	46	214,355	214,208	210,762	218,739	95,677	94,426	97,927	98,788
Boston U.	47	165,583	158,951	187,252	208,709	104,978	103,685	118,893	118,255
U. Rochester	48	183,888	190,887	194,845	205,158	122,773	130,266	129,064	128,290
U. Virginia, Charlottesville	49	196,044	152,594	172,559	189,679	72,196	50,344	48,783	57,711
U. California, Irvine	50	133,046	151,640	162,497	174,686	60,307	64,948	66,776	78,599
Medical C. Wisconsin	51	140,924	148,465	162,969	171,901	63,959	62,164	67,941	75,097
U. Arizona	52	146,236	167,652	161,471	160,542	56,116	68,196	61,132	58,241
Wayne State U.	53	139,847	148,674	153,084	154,653	68,776	71,133	74,502	74,025
U. Kansas	54	120,687	135,493	142,295	154,245	46,938	54,878	59,800	69,398
SUNY, U. Buffalo	55	167,111	165,515	164,551	150,541	62,279	60,158	58,617	59,728
Georgetown U.	56	125,558	127,918	136,787	138,679	67,033	64,369	64,256	66,199

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		2017	2018	2019	2020	2017	2018	2019	2020
Virginia Commonwealth U.	57	110,178	124,616	121,490	137,007	60,868	56,725	51,872	57,194
George Washington U.	58	113,728	117,455	121,699	126,901	81,599	81,460	78,924	84,188
Harvard U.	59	121,625	136,254	137,745	122,619	64,591	64,248	62,263	54,439
U. Oklahoma, Norman and Health Science Center	60	106,024	98,313	107,128	119,319	43,840	37,111	41,090	43,535
U. Texas Health Science Center, Houston	61	104,716	103,889	114,095	118,123	46,253	45,982	51,093	53,123
U. New Mexico	62	110,134	123,881	113,308	115,028	74,005	77,576	68,059	68,385
U. Texas Health Science Center, San Antonio	63	96,806	97,257	104,703	112,594	47,774	47,567	54,241	53,745
U. Arkansas for Medical Sciences	64	86,076	92,515	99,586	105,955	26,457	25,404	30,247	31,804
U. Nebraska, Medical Center	65	77,953	89,480	90,837	96,786	33,850	32,925	31,791	34,622
Thomas Jefferson U.	66	85,314	84,064	96,914	96,265	27,531	28,675	31,857	32,350
U. Massachusetts, Medical School	67	109,214	106,512	92,702	94,555	75,092	74,526	62,020	61,778
Temple U.	68	91,376	85,549	95,903	93,790	58,345	56,284	63,267	58,687
U. Louisville	69	92,566	87,100	82,529	91,134	27,709	30,092	29,886	28,362
Pennsylvania State U., University Park and Hershey Medical Center	70	92,705	88,833	84,968	90,967	49,066	45,299	46,064	49,889
Medical U. South Carolina	71	88,994	92,240	99,495	86,364	38,402	38,607	43,635	44,041
Purdue U., West Lafayette	72	69,168	64,066	73,660	85,839	23,026	24,261	24,555	29,679
Dartmouth C. and Dartmouth Hitchcock Medical Center	73	79,919	83,026	99,814	83,046	46,912	48,440	60,631	43,926
U. South Carolina, Columbia	74	60,213	57,608	52,099	80,412	36,612	36,380	39,967	43,207
Rush U.	75	56,880	72,261	75,399	78,672	35,518	47,961	49,170	51,186
U. Missouri, Columbia	76	52,390	51,464	62,918	78,021	23,289	25,048	28,328	35,673
U. Kentucky	77	70,791	64,652	73,619	77,295	39,766	32,406	40,585	47,572
U. Tennessee, Health Science Center	78	56,195	61,918	74,555	72,349	26,092	26,501	27,654	28,260
U. South Florida, Tampa	79	213,888	84,743	83,200	72,093	73,155	19,593	20,003	24,754
U. Mississippi	80	56,449	55,582	60,209	67,047	31,401	29,177	29,781	46,807

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		2017	2018	2019	2020	2017	2018	2019	2020
U. Connecticut	81	77,275	72,241	76,662	64,335	44,752	40,200	43,145	38,304
U. Vermont	82	43,594	47,413	48,324	64,224	27,087	30,298	31,802	33,364
U. Texas, Austin	83	29,454	42,958	56,232	62,010	19,780	21,815	29,182	28,826
Augusta U.	84	58,135	60,286	56,610	60,177	24,469	23,586	22,378	25,747
Michigan State U.	85	53,993	59,646	65,910	60,154	23,512	26,398	32,480	27,534
SUNY, Stony Brook U.	86	59,809	54,660	57,903	59,949	27,566	24,994	25,783	26,694
West Virginia U.	87	65,835	62,055	60,670	58,047	15,747	16,777	20,341	18,908
U. California, Berkeley	88	71,943	65,785	61,002	55,230	35,299	34,645	33,036	25,243
Washington State U.	89	34,636	40,812	47,568	49,070	20,494	24,820	34,114	32,030
U. Hawaii, Manoa	90	56,984	54,265	52,177	47,531	39,746	37,714	36,629	32,477
Drexel U.	91	35,915	45,559	49,628	47,466	14,080	21,707	26,328	25,113
Virginia Polytechnic Institute and State U.	92	45,406	48,797	49,883	47,236	14,857	16,132	19,397	19,730
U. Texas Medical Branch	93	50,384	49,895	43,303	42,087	30,375	30,434	27,545	27,779
Brown U.	94	41,288	49,630	45,463	41,744	30,474	37,965	34,347	31,743
Tulane U.	95	33,940	37,352	36,399	41,445	11,168	15,257	14,594	16,346
U. California, Office of the President	96	24,228	36,393	50,092	40,585	178	184	202	123
Arizona State U.	97	20,346	26,836	31,611	39,268	7,619	10,933	15,503	15,960
Florida State U.	98	21,095	25,392	32,890	37,353	7,564	11,696	17,293	19,862
U. Puerto Rico, Medical Sciences Campus	99	42,423	41,216	44,985	37,081	29,869	30,597	34,541	26,897
U. Georgia	100	35,374	35,091	50,860	32,872	9,730	10,661	10,985	12,548
SUNY, U. Albany	101	46,039	60,653	68,363	32,478	35,317	46,069	51,657	27,935
Tufts U.	102	25,840	22,399	19,295	31,949	18,340	12,812	14,964	25,561
Saint Louis U.	103	25,087	27,466	29,373	31,213	11,624	12,719	16,774	15,722
East Carolina U.	104	12,871	20,478	32,861	30,285	4,491	5,831	10,963	11,137
Morehouse School of Medicine	105	35,454	33,215	31,289	29,813	28,792	24,326	22,461	22,500
U. Texas, Dallas	106	25,367	25,181	31,036	29,609	6,221	8,370	11,546	13,568
U. Delaware	107	27,093	24,182	26,922	28,705	19,392	17,192	19,058	21,603
U. North Texas, Health Science Center	108	28,971	29,675	28,110	28,703	17,332	19,949	18,111	18,800
SUNY, Upstate Medical U.	109	20,749	21,703	22,363	26,810	11,295	11,924	9,786	13,081

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U. Montana, Missoula	110	19,631	20,846	24,465	25,707	14,366	18,053	19,683	21,652
Colorado State U., Fort Collins	111	54,686	46,652	37,787	24,849	35,296	30,361	24,560	19,151
Louisiana State U., Health Sciences Center, New Orleans	112	21,621	19,849	20,974	23,192	13,435	11,845	14,317	14,392
Texas Tech U., Health Sciences Center	113	22,198	21,383	22,752	21,574	4,148	3,369	3,596	3,500
U. Houston	114	19,533	22,924	20,004	21,435	9,610	9,597	10,244	10,906
U. Nevada, Las Vegas	115	14,550	12,751	20,056	21,019	7,520	6,542	6,120	5,767
U. Toledo	116	16,761	17,191	20,923	20,743	6,380	8,210	9,880	9,989
Massachusetts Institute of Technology	117	24,566	22,812	19,499	20,529	10,410	11,679	14,181	14,516
Georgia Institute of Technology	118	0	4,671	4,846	20,316	0	0	0	13,779
U. Texas Rio Grande Valley	119	14,223	11,955	17,789	19,143	5,114	4,328	4,808	3,852
U. Nevada, Reno	120	5,873	17,682	18,515	19,029	2,083	10,176	9,170	8,277
U. South Alabama	121	11,104	10,269	13,406	18,893	7,028	5,861	8,150	11,871
Loyola U., Chicago	122	19,881	20,136	17,674	18,529	11,101	10,130	9,742	9,898
U. Louisiana, Lafayette	123	19,103	0	51,140	18,497	18	0	12,290	8,299
Howard U.	124	20,483	19,482	17,872	18,156	16,141	15,474	13,134	12,922
New Jersey Institute of Technology	125	13,350	25,059	24,859	17,662	13,350	22,070	18,422	13,727
U. Central Florida	126	7,824	10,783	17,034	17,629	1,624	2,857	2,848	3,418
U. Nebraska, Lincoln	127	20,948	19,422	18,492	16,883	10,927	8,627	7,719	5,797
Southern Illinois U., Carbondale	128	19,149	20,361	16,778	16,628	4,550	4,314	4,437	3,925
U. New Hampshire	129	12,606	14,602	14,712	15,276	8,597	9,030	9,133	9,845
Iowa State U.	130	19,652	23,102	26,137	15,103	5,608	5,923	7,414	5,715
Loma Linda U.	131	12,954	13,649	14,497	14,865	7,269	7,555	8,090	8,352
Rockefeller U.	132	14,739	14,412	14,318	14,643	6,539	6,150	5,819	4,473
U. Missouri, Kansas City	133	8,783	7,796	11,919	14,403	3,702	3,513	7,586	9,111
U. North Dakota	134	12,090	11,708	12,059	14,048	4,687	5,025	5,940	7,807

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Florida International U.	135	15,433	12,635	16,019	13,961	4,935	3,010	3,190	2,603
Louisiana State U., Health Sciences Center, Shreveport	136	14,001	13,849	14,390	13,911	1,572	1,529	2,267	1,658
Georgia State U.	137	23,121	22,235	11,424	13,803	10,578	11,124	9,780	10,882
Charles R. Drew U. of Medicine and Science	138	15,652	11,490	13,739	13,682	14,461	10,198	10,427	9,863
Ponce Health Sciences U.	139	8,664	7,857	11,390	13,566	7,108	6,386	8,339	11,228
Indiana U.-Purdue U., Indianapolis	140	11,662	13,353	14,273	13,557	3,794	4,585	5,579	5,576
Nova Southeastern U.	141	12,404	13,414	14,236	13,298	3,649	3,540	4,725	4,572
U. California, Riverside	142	7,441	8,756	10,797	12,788	3,996	5,317	6,568	9,783
San Diego State U.	143	13,651	12,874	15,226	12,357	9,419	8,935	10,733	8,423
Marshall U.	144	9,088	11,238	10,844	12,186	5,159	5,808	6,218	8,118
Auburn U., Auburn	145	20,321	26,623	28,160	10,995	890	2,159	1,615	1,657
Eastern Virginia Medical School	146	22,181	23,540	18,318	10,902	16,623	17,085	13,393	8,927
Northeastern U.	147	6,450	9,442	10,429	10,384	1,996	4,328	4,454	4,591
CUNY, Graduate School of Public Health and Health Policy	148	na	7,290	7,388	10,057	na	3,757	3,439	6,602
U. Massachusetts, Amherst	149	20,827	19,867	19,940	10,047	11,467	10,708	12,576	6,464
Montana State U., Bozeman	150	11,799	10,054	11,971	10,030	7,032	6,476	8,195	7,076
CUNY, Queens C.	151	0	0	0	9,978	0	0	0	8,321
U. Tennessee, Knoxville ^c	152	3,307	6,020	6,503	9,977	2,015	2,387	3,123	4,173
U. Texas, Arlington	153	3,035	5,317	9,698	9,511	1,209	1,306	3,508	5,042
Creighton U.	154	10,322	8,887	10,406	8,797	3,427	2,429	3,497	3,209
North Dakota State U.	155	14,616	15,894	17,936	8,713	4,869	5,834	6,703	5,142
Oklahoma State U., Stillwater	156	5,529	10,329	9,576	8,614	1,242	2,222	1,248	1,106
Florida A&M U.	157	8,888	8,599	7,880	8,427	7,491	7,300	6,874	7,301

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SUNY, Binghamton U.	158	6,098	8,957	7,085	8,035	566	1,222	1,490	1,319
Texas Tech U., Health Sciences Center, El Paso	159	11,549	8,616	8,856	8,014	1,375	1,411	1,397	1,189
Florida Atlantic U.	160	8,322	7,705	7,432	7,865	2,831	2,597	3,572	3,380
Rowan U.	161	4,609	4,559	6,652	7,836	2,313	2,919	2,909	3,446
New York Medical C.	162	9,141 i	4,188 i	11,126 i	7,585	4,630 i	4,188 i	6,143 i	3,010
Edward Via C. of Osteopathic Medicine	163	8,119	7,601	7,225	7,474	94	195	749	565
Clemson U.	164	2,307	2,625	5,822	7,465	1,256	1,198	1,387	1,847
Oregon State U.	165	6,084	6,803	8,154	7,447	4,466	4,836	5,839	5,837
George Mason U.	166	5,273	7,286	6,467	7,187	2,150	4,024	2,767	3,326
Oklahoma State U., Center for Health Sciences	167	993	2,497	4,390	7,164	718	959	848	2,469
Ohio U.	168	11,504 i	8,579 i	7,681	7,158	2,544	1,955	2,215	2,501
Northeast Ohio Medical U.	169	11,704	10,236	9,108	6,717	5,152	3,959	3,673	3,274
U. Texas, El Paso	170	6,303	6,979	7,504	6,503	938	1,412	1,958	2,007
Albany Medical C.	171	6,063	6,819	6,792	6,360	240	331	607	677
Duquesne U.	172	8,129	6,461	5,950	6,266	3,197	2,534	2,089	2,181
U. Wisconsin-Milwaukee	173	953	5,547	5,839	6,129	953	1,964	2,671	3,092
Long Island U.	174	1,349	1,541	4,536	5,905	1,025	1,333	1,381	1,103
Wright State U.	175	8,029	7,204	8,004	5,732	3,679	4,265	4,070	3,109
Miami U.	176	804	2,802	4,422	5,586	97	214	365	1,085
U. Missouri, Saint Louis	177	1,713	2,069	4,746	5,458	996	1,528	2,357	2,591
U. Alabama, Tuscaloosa	178	2,262	3,507	4,869	5,383	623	877	1,589	2,364
U. Colorado Boulder	179	5,777	6,593	5,714	5,377	4,567	4,728	3,747	3,939
Mercer U.	180	3,651	5,112	5,294	5,307	1,126	1,181	1,233	1,457
Texas Tech U.	181	4,946	5,879	6,365	5,204	311	445	597	570
U. Massachusetts, Lowell	182	19	3,551	2,942	5,198	0	1,783	945	1,417
U. Memphis	183	4,852	5,681	5,463	5,192	1,395	1,279	1,053	1,139
Northern Arizona U.	184	5,578	2,036	2,807	5,180	3,003	497	1,178	3,702
U. of Health Sciences and Pharmacy in St. Louis	185	ne	ne	ne	4,835	ne	ne	ne	3,767

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Old Dominion U.	186	7,047	4,683	4,708	4,585	4,150	3,397	2,081	2,186
Marquette U.	187	4,000	3,223	4,461	4,570	873	840	1,477	1,771
Central Michigan U.	188	3,113	3,219	2,910	4,390	751	1,421	1,046	844
CUNY, City C.	189	3,756	4,277	4,355	4,387	2,108	2,506	2,429	2,024
Roseman U. of Health Sciences	190	4,167	3,973	4,176	4,380	0	18	37	56
East Tennessee State U.	191	4,013	4,282	3,405	4,145	1,417	2,092	1,456	2,564
U. Central del Caribe	192	5,634	4,111	3,953	3,931	4,866	2,937	2,705	2,743
Midwestern U.	193	3,625	3,778	3,950	3,907	276	262	491	455
Southern Illinois U., Edwardsville	194	2,363	3,088	1,066	3,799	769	741	1,048	961
SUNY, C. of Optometry	195	3,304	3,120	2,968	3,477	2,073	1,944	1,823	1,688
U. Nebraska, Omaha	196	3,970	3,549	2,599	3,445	3,357	2,921	1,989	2,658
U. Massachusetts, Boston	197	8,060	4,395	3,766	3,320	2,282	1,679	1,403	1,591
U. North Carolina, Greensboro	198	2,728	3,249	3,993	3,230	2,229	2,174	2,424	2,032
U. Arkansas, Fayetteville	199	11,752	13,844	11,026	3,213	7,266	8,588	5,617	821
Pacific U.	200	3,316	2,641	4,463	3,202	1,352	1,252	2,338	1,572
Alabama A&M U.	201	7,176	5,785	4,390	2,991	5,136	3,974	2,810	1,916
California Polytechnic State U., San Luis Obispo	202	3,029	2,741	2,891	2,899	2,266	2,035	2,207	1,836
Xavier U. Louisiana	203	3,011	3,533	2,490	2,859	1,727	2,266	1,180	1,384
U. Illinois, Urbana-Champaign	204	20,194	19,229	25,462	2,845	6,345	5,617	8,907	722
Cleveland State U.	205	4,156	8,610	6,578	2,797	3,200	6,628	3,819	433
Syracuse U.	206	3,738	3,174	3,253	2,785	848	851	841	647
Chapman U.	207	2,913	2,384	2,578	2,761	983	1,240	1,587	1,810
California State U., Long Beach	208	1,595	2,524	2,873	2,704	960	1,941	2,262	1,784
South Dakota State U.	209	5,295	4,642	4,896	2,684	2,859	2,252	1,947	1,596
U. Oklahoma, Tulsa	210	1,621	2,383	2,325	2,633	344	864	496	493
Utah State U.	211	413	1,173	1,737	2,526	292	864	1,398	1,877
Yeshiva U.	212	3,258	3,302	2,420	2,477	816	683	380	486

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
New York Institute of Technology	213	1,953	2,381	4,185	2,474	460	624	1,900	698
Philadelphia C. of Osteopathic Medicine	214	2,309	2,443	2,368	2,415	0	0	0	0
U. Guam	215	2,238	1,928	2,145	2,408	1,976	1,581	1,837	2,034
U. Rhode Island	216	4,076	2,714	2,944	2,397	3,444	1,648	1,847	2,339
U. Wyoming	217	20,121	17,664	4,206	2,320	11,379	7,804	2,900	2,026
U. of the Sciences Philadelphia	218	2,298	2,133	2,332	2,304	544	434	318	254
U. Southern Mississippi	219	380	2,101	2,771	2,300	4	112	627	608
Baylor U.	220	2,251	2,761	2,127	2,267	444	681	1,098	1,255
Texas State U.	221	1,065	1,106	1,957	2,257	214	64	457	354
Portland State U.	222	6,092	6,510	9,112	2,224	4,999	5,911	7,816	2,097
U. New England	223	2,591	2,038	1,870	2,080	1,862	1,402	1,344	1,428
Framingham State U.	224	1,823	48	ne	2,060	0	0	ne	0
Brandeis U.	225	0	0	0	2,047	0	0	0	1,318
U. Texas, San Antonio	226	1,030	1,658	1,483	2,014	358	734	826	808
Salisbury U.	227	1,220	1,634	1,607	1,995	461	77	0	0
Kent State U.	228	1,330	1,559	2,281	1,965	10	51	110	424
Morgan State U.	229	0	93	6	1,931	0	0	0	1,764
U. North Carolina, Charlotte	230	1,549	2,018	2,424	1,904	668	430	728	563
Azusa Pacific U.	231	1,941	2,512	736	1,876	127	111	49	116
Eastern Michigan U.	232	311	292	1,165	1,872	0	0	799	1,413
Northern Illinois U.	233	556	2,786	3,604	1,854	524	406	211	200
U. California, Merced	234	1,542	1,845	2,323	1,770	392	512	634	539
U. South Dakota	235	1,806	1,997	1,631	1,743	96	368	328	504
Mississippi State U.	236	2,341	1,376	1,535	1,738	757	126	135	206
Winston-Salem State U.	237	218	305	201	1,716	218	305	201	1,366
Rosalind Franklin U. of Medicine and Science	238	1,542	2,419	1,386	1,691	415	577	630	770
Texas Woman's U.	239	1,693	1,807	1,435	1,669	63	0	229	347
U. Louisiana, Monroe	240	1,414	1,483	1,435	1,665	1,176	1,209	1,088	1,379
Oakland U.	241	1,611	1,374	1,805	1,603	771	567	215	69

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
MGH Institute of Health Professions	242	1,076	1,745	1,957	1,587	1,076	1,745	1,957	1,587
Langston U.	243	168	211	255	1,578	0	0	0	1,578
Boston C.	244	844	1,175	1,202	1,576	554	858	879	1,062
Idaho State U.	245	1,791	1,697	1,237	1,477	1,211	899	352	283
National U. of Natural Medicine	246	921	ne	1,245	1,428	427	ne	760	912
Michigan Technological U.	247	719	1,113	1,460	1,390	361	566	629	399
Marshall B. Ketchum U.	248	1,512	1,451	1,430	1,357	368	354	336	323
U. North Texas, Denton	249	426	875	1,866	1,354	0	0	0	48
Boise State U.	250	1,192	881	955	1,343	759	688	670	867
U. Nebraska, central administration	251	ne	2,145	3,259	1,333	ne	2,145	3,068	1,333
St. John's U., New York	252	0	1,013	926	1,326	0	533	539	556
Villanova U.	253	0	455	601	1,305	0	0	0	25
Tougaloo C.	254	1,755	2,012	1,170	1,238	1,755	2,012	1,170	1,238
Grand Valley State U.	255	79	803	741	1,216	0	104	527	673
Montclair State U.	256	1,124	1,249	852	1,206	0	174	133	300
Georgia Southern U.	257	2,880	1,670	1,507	1,173	1,736	966	774	570
Ball State U.	258	1,349	1,287	1,232	1,171	592	500	454	598
U. of the Virgin Islands	259	1,671	287	143	1,157	1,671	287	143	1,157
New England C. of Optometry	260	ne	1,026	1,223	1,150	ne	837	928	785
Saginaw Valley State U.	261	421	883	1,296	1,145	406	868	1,278	1,083
Western Michigan U. and Homer Stryker M.D. School of Medicine	262	2,127	1,368	929	1,136	802	287	100	276
U. Alabama, Huntsville	263	98	108	887	1,122	0	0	6	39
Jackson State U.	264	2,217	870	881	1,084	2,190	866	855	1,044
Fayetteville State U.	265	326	368	368	1,075	326	368	368	0
Albany C. of Pharmacy and Health Sciences	266	168	1,434	348	1,033	58	400	214	827

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Illinois Institute of Technology	267	866	1,896	1,696	1,023	337	947	847	487
U. Oregon	268	1,974	821	115	1,004	938	629	107	4
Illinois State U.	269	70	268	646	991	22	20	343	684
Kennesaw State U.	270	56	748	1,346	965	0	6	50	315
Hampton U.	271	1,139	404	983	962	1,139	404	983	962
Brigham Young U., Provo	272	515	837	1,354	946	0	156	482	392
U. Maryland, Baltimore County	273	0	0	2,446	934	0	0	1,400	142
Keck Graduate Institute	274	322 i	807 i	906 i	930 i	0 i	404 i	444 i	458 i
Louisiana State U., Baton Rouge	275	21,960	23,984	26,509	928	6,841	7,566	8,877	527
Purdue U., Northwest	276	728	722	563	920	104	97	71	131
Southern Connecticut State U.	277	98	328	672	907	13	147	144	102
Northeastern Illinois U.	278	0	944	997	873	0	944	997	873
Skidmore C.	279	979	1,264	1,071	852	807	1,072	948	730
U. Hawaii, Hilo	280	1,749	1,476	746	851	1,222	1,029	591	631
Carnegie Mellon U.	281	1,056	1,082	1,191	824	548	759	885	493
SUNY, Downstate Medical Center	282	1,361	185	593	815	1,361	185	170	283
Mercyhurst U.	283	0 i	ne	783 i	804 i	0 i	ne	283 i	292 i
Oregon Institute of Technology	284	0 i	0 i	859 i	777 i	0 i	0	0 i	0
Western Carolina U.	285	158	168	621	774	58	137	493	621
Kansas State U.	286	21,208	19,289	17,881	752	10,311	9,103	9,584	752
CUNY, C. Staten Island	287	816	857 i	628	723	349	0 i	0	0
U. North Carolina, Asheville	288	386	146	515	718	356	0	486	667
California State U., Fullerton	289	582	574	553	707	467	451	336	335
Western Kentucky U.	290	623	823	1,134	686	212	77	170	0
West Virginia School of Osteopathic Medicine	291	ne	ne	ne	669	ne	ne	ne	362
Catholic U. of America	292	424	889	735	667	270	663	541	432

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Southern U. and A&M C., Agricultural Research and Extension Center	293	0	0	418	662	0	0	0	0
CUNY, Brooklyn C.	294	373	255	636	660	326	245	534	556
William Paterson U.	295	191	381	598	650	32	0	0	0
U. Wisconsin-Green Bay	296	124	549	684	649	69	189	262	284
U. Wisconsin-Oshkosh	296	550	583	626	649	399	417	449	468
Florida Gulf Coast U.	298	20	20	66	632	17	20	51	594
U. Nebraska, Kearney	298	150	130	276	632	22	19	47	327
James Madison U.	300	132	133	295	631	0	0	0	0
California State U., East Bay	301	ne	ne	ne	629	ne	ne	ne	154
West Chester U. Pennsylvania	302	736	888	939	613	84	116	126	73
California State U., Fresno	303	288	335	104	572	125	79	9	10
Des Moines U.	304	117	81	29	567	50	41	10	0
U. Massachusetts, central office	305	359	381	329	545	267	246	198	403
Northern Kentucky U.	306	0	0	156	532	0	0	138	295
U. of the Incarnate Word	307	ne	160	520	531	ne	160	520	531
U. North Carolina, Wilmington	308	78	66	159	481	3	27	108	151
U. North Florida	308	500	465	632	481	0	0	0	0
Midwestern State U.	310	ne	ne	ne	476	ne	ne	ne	381
SUNY, C. Plattsburgh	311	0	735	306	465	0	681	281	429
Texas Christian U.	312	2,470	1,661	1,527	464	1,484	1,431	844	124
Biola U.	313	396	411	440	452	212	218	233	240
Louisiana Tech U.	314	432	357	462	449	47	0	67	37
New Mexico State U.	314	418	626	628	449	292	543	536	397
U. Texas, Tyler	316	239	212	693	440	48	149	343	272
U. Alaska, Fairbanks	317	5,005	6,324	2,751	431	4,680	5,129	2,517	431
U. Puerto Rico, Cayey	318	0	0	353	426	0	0	0	327

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Appalachian State U.	319	9	19	45	409	0	0	0	64
CUNY, Hunter C.	320	104	148	242	407	104	142	238	253
Winthrop U.	321	0	2	259	401	0	0	259	401
U. Central Arkansas	322	570	539	270	386	173	132	58	115
U. Maine	323	62	44	417	385	0	0	0	0
Gallaudet U.	324	360	774	409	384	319	699	388	383
Lipscomb U.	325	ne	ne	ne	379	ne	ne	ne	203
Pace U.	326	479	510	366	378	20	9	1	19
North Carolina Central U.	327	747	0	1,087	360	710	0	943	302
Tarleton State U.	328	104	3	115	350	0	0	0	0
U. of the Pacific	329	423	457	381	341	389	393	278	328
Rutgers, State U. New Jersey, Newark	330	0	80	0	338	0	0	0	0
Dine C.	331	ne	647	734	328	ne	647	734	328
Pennsylvania State U., Harrisburg	332	0	12	62	327	0	0	0	303
California State U., Sacramento	333	302	357	356	325	12	14	9	0
California State U., San Marcos	334	28	48	372	324	28	47	372	254
Western U. of Health Sciences	335	1,403	1,034	446	323	154	537	41	14
U. Detroit Mercy	336	189	36	67	318	3	33	46	18
U. Northern Colorado	337	957	937	634	311	585	490	179	128
Bowling Green State U.	338	392	236	109	304	92	124	67	122
Ithaca C.	339	ne	ne	ne	303	ne	ne	ne	276
U. Washington, Bothell	340	0	48	251	297	0	48	203	297
Towson U.	341	190	201	212	295	0	0	13	13
Delaware State U.	342	30	197	265	275	27	7	170	177
Rhode Island C.	343	61	58	64	268	60	41	45	0
U. Michigan, Dearborn	344	38	141	143	261	8	74	103	171
U. Maryland, Eastern Shore	345	18	7	106	259	0	7	5	259
California State U., Los Angeles	346	148	400	522	257	138	400	490	235
Merrimack C.	347	ne	480	ne	253	ne	146	ne	168
Humboldt State U.	348	160	214	396	246	0	0	0	0

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Johnson C. Smith U.	348	352	568	230	246	352	368	230	246
U. Notre Dame	350	202	65	139	231	0	0	0	0
Dillard U.	351	4,246	4,403	506	224	3,686	4,134	506	2
Texas A&M International U.	352	1,991	2,578	3,439	220	1,461	1,339	1,698	123
U. Dayton	353	229	346	413	216	108	207	319	172
U. South Florida, Saint Petersburg	354	77	495	308	206	0	0	0	0
Naval Postgraduate School	355	0	0	55	200	0	0	55	200
Northern Michigan U.	355	116	129	320	200	0	0	150	0
U. San Francisco	357	86	280	321	195	0	0	0	0
U. Tennessee, Chattanooga	358	67	88	104	193	0	0	0	0
South Carolina State U.	359	0	0	185	192	0	0	185	192
San Francisco State U.	360	83	63	184	191	41	0	94	98
U. Michigan, Flint	361	227	126	172	190	42	7	9	118
U. Akron	362	436	10	13	183	146	0	0	143
Virginia State U.	363	22	0	9	179	22	0	9	179
U. Tulsa	364	0	17	135	178	0	0	0	28
Northwestern State U. Louisiana	365	93	186	211	176	0	4	34	1
Wheaton C., Wheaton	366	22	72	211	161	0	27	137	142
Savannah State U.	367	144	38	92	152	144	38	92	152
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	368	312	123	145	150	44	24	43	45
Southeastern Louisiana U.	369	516	396	138	148	442	359	118	136
C. Charleston	370	29	177	225	146	0	0	25	0
Indiana U. Pennsylvania	371	37	113	129	144	0	0	0	0
Colorado School of Mines	372	67	68	88	132	8	30	88	125
U. Alaska, Anchorage	373	1,472	1,757	1,268	129	1,384	1,523	1,116	0

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Smith C.	374	6	98	17	126	0	0	0	14
U. Idaho	375	50	88	169	121	0	58	87	93
U. San Diego	375	145	187	219	121	15	46	22	34
Kean U.	377	ne	ne	ne	120	ne	ne	ne	0
Fisk U.	378	35	0	0	113	35	0	0	113
Middle Tennessee State U.	379	101	131	34	112	65	79	0	0
Middlebury C.	380	0	0	0	109	0	0	0	109
U. West Florida	380	362	179	88	109	0	7	0	28
Alcorn State U.	382	844	186	86	108	670	186	81	107
U. Hartford	383	117	10	0	101	97	10	0	101
Clarkson U.	384	508	507	398	97	443	368	219	54
Tennessee Technological U.	385	58	17	0	96	41	13	0	0
Stephen F. Austin State U.	386	0	99	97	92	0	4	1	0
St. Olaf C.	387	99	67	75	81	27	0	0	0
Eastern Kentucky U.	388	8	79	105	80	0	2	74	44
DePaul U.	389	15	29	27	79	8	8	1	0
St. Cloud State U.	390	85	4	36	78	0	0	0	0
U. Massachusetts, Dartmouth	391	143	123	106	77	0	0	0	0
U. Southern Maine	392	19	1	0	74	0	0	0	22
Furman U.	393	99	88	52	72	91	79	52	39
Pittsburg State U.	394	3	14	50	69	0	14	50	67
U. North Georgia	395	0	118	128	67	0	0	74	67
Tennessee State U.	396	29	38	167	65	2	36	43	44
U. Central Oklahoma	397	56	0	64	63	56	0	60	59
U. Colorado Colorado Springs	398	0	15	18	62	0	15	0	0
Indiana State U.	399	64	195	133	55	19	61	42	12
Dickinson C.	400	0	ne	84	53	0	ne	84	0
California State U., Monterey Bay	401	155	278	262	49	122	205	196	0
Fairfield U.	401	702	0	68	49	357	0	0	0
Prairie View A&M U.	403	37	3	0	48	30	0	0	48
Hofstra U.	404	79	96	26	47	47	8	0	0
Texas A&M U.-Commerce	404	0	17	87	47	0	0	0	0

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. South Florida, Sarasota-Manatee	404	64	35	55	47	0	0	0	0
California Institute of Technology	407	2,966	4,274	2,815	46	0	0	0	46
U. Wisconsin-Eau Claire	407	12	37	49	46	0	0	0	0
Elon U.	409	204	307	268	45	0	0	0	16
Sonoma State U.	409	ne	ne	ne	45	ne	ne	ne	17
Stockton U.	411	ne	20	0	44	ne	0	0	0
California Lutheran U.	412	ne	ne	104	39	ne	ne	0	0
Lamar U.	413	233	249	563	36	0	15	440	0
Saint Joseph's U.	414	45	37	43	35	0	0	0	0
U. Arkansas, Little Rock	414	276	93	80	35	0	66	53	35
Citadel Military C. South Carolina	416	ne	ne	ne	34	ne	ne	ne	0
Arkansas State U., Jonesboro	417	11	45	28	32	0	0	0	0
CUNY, John Jay C. of Criminal Justice	418	0	346	81	28	0	54	2	2
U. Puerto Rico, Rio Piedras	419	0	4	71	27	0	2	71	27
Youngstown State U.	419	40	28	31	27	0	0	0	0
Liberty U.	421	ne	ne	6	26	ne	ne	0	0
U. Wisconsin-Stevens Point	422	14	18	20	23	11	14	16	19
California State U., Bakersfield	423	10	4	21	22	0	0	0	0
Texas A&M U.-Corpus Christi	423	213	38	33	22	0	0	0	0
U. Wisconsin-La Crosse	423	90	8	8	22	0	0	0	0
California State U., Dominguez Hills	426	10	24	24	21	0	0	0	0
U. Ana G. Mendez, Gurabo	426	56	101	63	21	0	0	0	0
Wichita State U.	426	17	6	57	21	6	3	0	9
Spelman C.	429	171	130	58	20	171	130	58	20
U. Puget Sound	429	22	ne	ne	20	0	ne	ne	0
Pepperdine U.	431	57	11	11	18	0	0	0	0

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Sam Houston State U.	431	9	269	14	18	0	0	0	0
Minnesota State U., Mankato	433	0	6	5	17	0	0	0	0
Calvin U.	434	26	1	16	15	0	0	0	0
C. of Saint Benedict	435	50	15	15	14	0	0	0	0
La Salle U.	435	ne	ne	ne	14	ne	ne	ne	14
U. Alaska, Southeast	437	55	176	84	13	55	176	84	13
New School	438	0	0	0	12	0	0	0	12
Saint John's U., Collegeville	438	45	13	13	12	0	0	0	0
SUNY, C. Brockport	438	21	47	26	12	11	26	0	0
Willamette U.	438	7	7	33	12	0	0	0	0
Fort Lewis C.	442	ne	ne	0	11	ne	ne	0	0
Oberlin C.	443	92	44	22	10	0	0	0	0
California State U., San Bernardino	444	267	88	57	9	137	5	5	0
CUNY, York C.	444	ne	ne	8	9	ne	ne	0	0
C. New Jersey	446	58	9	ne	8	29	0	ne	0
Bates C.	447	0	0	0	7	0	0	0	0
Hope C.	447	0	10	0	7	0	0	0	0
California State U., Stanislaus	449	0	0	9	6	0	0	0	0
Franklin and Marshall C.	449	5	4	58	6	0	0	0	0
Loyola Marymount U.	449	80	0	13	6	0	0	0	0
Trinity U.	449	9	11	0	6	0	0	0	0
CUNY, Medgar Evers C.	453	0	0	1	5	0	0	1	5
Eastern Connecticut State U.	453	0	0	1	5	0	0	0	0
Purdue U., Fort Wayne	453	1,439	1,494	15	5	188	284	0	0
SUNY, Oswego	453	1	5	5	5	0	0	0	0
U. New Haven	453	0	0	3	5	0	0	0	0
Austin Peay State U.	458	0	0	3	3	0	0	0	0
Gettysburg C.	458	103	22	7	3	46	0	0	0
Santa Clara U.	458	159	142	6	3	159	142	6	3
Southern U. and A&M C., Baton Rouge	461	8	5	10	2	0	0	8	0
Troy U.	461	ne	ne	ne	2	ne	ne	ne	0
CUNY, Lehman C.	463	125	428	0	1	122	274	0	0
Lafayette C.	463	0	0	11	1	0	0	0	0

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Missouri U. of Science and Technology	463	0	0	1	1	0	0	0	0
U. Minnesota, Duluth	463	0	0	1	1	0	0	0	0
U. Northern Iowa	463	0	0	0	1	0	0	0	0
All other surveyed institutions	-	342,321	364,127	6,755	0	165,692	212,125	3,363	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$7,354 thousand imputed for total and \$5,884 thousand reported for federally financed R&D expenditures in health sciences in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. 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.