

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
All institutions	-	27,991,953	29,857,379	31,874,515	35,724,571	14,705,970	16,130,296	17,505,745	19,390,822
U. California, San Francisco	1	1,579,053	1,637,342	1,731,822	1,975,332	634,237	645,077	736,836	814,799
U. California, Los Angeles	2	955,580	1,019,775	1,073,244	1,183,024	437,643	502,185	594,487	614,927
U. California, San Diego	3	765,869	762,778	854,614	975,237	377,281	419,886	531,157	593,438
Duke U.	4	717,323	721,730	857,681	922,346	353,311	383,958	493,708	520,614
U. North Carolina, Chapel Hill	5	700,352	733,607	798,512	910,610	398,199	426,102	453,720	495,807
Yale U.	6	726,089	779,001	809,589	899,612	367,588	415,334	445,289	478,074
Johns Hopkins U. ^a	7	736,373 i	719,743 i	820,566 i	884,787 i	492,957	495,734	571,270	618,592
U. Pittsburgh, Pittsburgh	8	659,733	678,383	728,994	840,307	400,747	421,306	462,914	537,455
Stanford U.	9	572,268	622,630	695,772	795,985	323,047	359,980	392,879	449,167
U. Texas M. D. Anderson Cancer Center	10	654,098	714,145	755,886	784,555	90,726	114,464	120,193	137,820
U. Washington, Seattle	11	660,692	685,723	679,546	772,288	489,241	488,597	472,149	543,005
Ohio State U.	12	422,365	700,303	666,812	744,235	225,112	245,788	280,228	330,184
U. Michigan, Ann Arbor	13	622,140	604,587	680,357	739,926	333,024	333,812	369,878	390,777
Vanderbilt U. and Vanderbilt U. Medical Center	14	441,313	599,247	651,870	729,531	303,327	361,743	422,950	481,107
New York U.	15	389,211	469,714	584,887	723,188	203,772	267,032	355,486	450,355
Emory U.	16	535,117	571,627	628,633	721,234	264,862	307,719	333,946	401,347
Columbia U. in the City of New York	17	531,123	563,787	637,456	702,609	391,314	422,968	462,070	521,080
U. Colorado Anschutz Medical Campus ^b	18	na	550,101	591,424	667,024	na	357,186	423,282	467,520
U. Minnesota, Twin Cities	19	474,705	514,691	602,141	657,293	231,480	274,027	333,708	350,374
Washington U., Saint Louis	20	465,122	498,196	549,454	618,911	272,506	290,293	336,869	373,126
Northwestern U.	21	451,059	474,272	514,642	596,679	287,948	302,805	332,325	380,372
U. Wisconsin-Madison	22	451,868	467,332	500,026	560,021	177,594	185,553	204,259	223,386
U. Texas Southwestern Medical Center	23	377,001	408,377	479,181	540,934	154,128	156,620	185,558	223,532
U. Alabama, Birmingham	24	409,345	439,145	486,139	522,941	242,728	265,640	283,493	308,949
Icahn School of Medicine at Mount Sinai	25	387,114	428,618	482,027	513,654	272,264	318,922	349,128	377,260
Cornell U.	26	370,944	384,742	429,280	509,376	161,371	185,010	214,450	240,972
U. Cincinnati	27	363,772	380,364	428,068	481,243	223,432	239,842	268,101	299,440
Indiana U., Bloomington	28	367,228	369,296	402,704	472,182	162,496	168,420	188,523	228,551
Baylor C. of Medicine	29	374,095	371,964	426,947	447,563	148,425	168,837	197,342	210,111
Uniformed Services U. of the Health Sciences	30	315,313	359,418	252,132	443,756	228,596	257,125	176,427	360,874
U. Maryland ^c	31	366,476	390,634	400,555	442,549	215,647	215,882	211,533	228,444
U. Florida	32	327,963	344,705	400,250	430,438	142,251	156,907	169,021	179,454
U. Pennsylvania	33	326,566	329,713	352,904	412,203	153,364	171,402	189,554	216,864
U. Utah	34	361,988 i	369,765 i	351,390	409,503	177,544	186,207	190,041	223,879

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		2020	2021	2022	2023	2020	2021	2022	2023
U. Southern California	35	427,949	468,905	262,080	342,531	215,128	235,884	152,381	171,335
Albert Einstein C. of Medicine	36	288,654	301,715	318,314	336,238	204,635	214,619	220,780	230,151
Case Western Reserve U.	37	283,260	252,185	292,264	333,191	231,431	206,937	245,047	267,490
U. Iowa	38	284,636	278,735	295,198	327,000	123,855	130,852	133,298	136,737
Oregon Health and Science U.	39	265,157	278,801	300,193	312,876	184,045	195,006	208,921	210,171
U. Chicago	40	219,525	254,022	292,843	303,959	163,943	194,258	217,318	227,846
U. Miami	41	218,739	215,596	247,302	298,538	98,788	98,956	109,639	126,966
Rutgers, State U. New Jersey, New Brunswick	42	319,113	319,883	228,112	293,805	131,115	165,473	98,452	120,934
Wake Forest U.	43	232,490	250,518	250,627	286,149	162,023	184,166	175,325	197,338
U. California, Davis	44	229,577	247,406	262,615	283,182	122,802	126,788	161,879	170,198
Boston U.	45	208,709	276,870	295,414	275,110	118,255	181,093	167,178	142,415
U. Virginia, Charlottesville	46	189,679	172,524	182,321	267,291	57,711	59,905	60,833	106,083
U. Illinois, Chicago	47	222,385	237,347	241,065	256,515	128,953	139,546	146,031	152,005
Medical C. Wisconsin	48	171,901	185,395	206,900	233,998	75,097	81,557	93,426	91,144
U. Rochester	49	205,158	214,686	229,953	233,190	128,290	137,802	143,435	150,391
U. California, Irvine	50	174,686	190,252	187,306	217,588	78,599	79,591	87,959	105,351
Virginia Commonwealth U.	51	137,007	140,319	177,716	214,270	57,194	60,154	66,094	81,161
U. Arizona	52	160,542	162,748	183,399	199,768	58,241	71,073	80,959	86,387
U. Kansas	53	154,245	168,897	172,748	195,349	69,398	83,587	84,531	88,016
Georgetown U.	54	138,679	167,962	176,598	182,374	66,199	99,766	98,393	100,439
U. Texas Health Science Center, Houston	55	118,123	138,943	152,507	172,565	53,123	72,125	76,851	90,275
U. New Mexico	56	115,028	213,149	200,164	168,318	68,385	156,667	138,833	98,966
U. Texas Health Science Center, San Antonio	57	112,594	126,181	132,856	158,518	53,745	58,379	65,129	81,366
Thomas Jefferson U.	58	96,265	117,226	151,386	157,091	32,350	59,891	58,763	53,752
SUNY, U. Buffalo	59	150,541	154,302	159,310	156,207	59,728	62,571	63,398	70,487
Wayne State U.	60	154,653	146,425	152,350	151,640	74,025	72,186	77,680	76,321
U. Arkansas for Medical Sciences	61	105,955	122,965	145,560	146,264	31,804	47,652	54,269	55,768
Pennsylvania State U., University Park and Hershey Medical Center	62	90,967	91,303	118,266	144,332	49,889	51,789	60,184	67,315
Harvard U.	63	122,619	133,571	131,479	140,426	54,439	74,024	74,495	77,144
U. Nebraska, Lincoln and Medical Center ^d	64	na	na	na	137,215	na	na	na	54,879
U. Oklahoma, Norman and Health Science Center	65	119,319	116,506	125,256	130,968	43,535	46,790	54,008	59,736
U. South Florida ^e	66	72,093	90,274	99,029	119,355	24,754	33,784	45,993	55,214
U. Massachusetts, Medical School	67	94,555	100,911	132,752	118,862	61,778	62,856	96,374	76,478
U. Missouri, Columbia	68	78,021	79,594	98,322	114,187	35,673	44,407	44,542	53,565
Rush U.	69	78,672	92,716	99,567	111,634	51,186	60,853	66,274	76,245

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George Washington U.	70	126,901	122,447	114,499	109,594	84,188	83,219	73,625	51,051
Medical U. South Carolina	71	86,364	93,409	91,364	108,793	44,041	48,670	47,538	49,156
Temple U.	72	93,790	94,116	101,776	104,767	58,687	62,141	67,747	59,669
Purdue U., West Lafayette	73	85,839	88,853	91,794	103,811	29,679	33,916	39,058	43,093
U. Louisville	74	91,134	87,611	99,867	98,442	28,362	29,156	43,345	33,557
U. Kentucky	75	77,295	77,779	86,296	98,047	47,572	52,260	62,945	69,351
U. Connecticut	76	64,335	74,770	89,129	97,728	38,304	47,916	57,044	63,473
Texas A&M U., College Station and Health Science Center	77	220,948	188,730	103,670	94,371	171,384	139,429	55,668	33,989
U. Texas, Austin	78	62,010	69,548	77,108	94,347	28,826	36,365	40,012	44,339
Augusta U.	79	60,177	69,850	73,958	89,163	25,747	30,933	31,030	33,719
U. North Texas, Health Science Center	80	28,703	36,100	64,670	85,752	18,800	23,830	52,419	73,933
U. South Carolina, Columbia	81	72,233	69,832	78,146	85,437	41,687	41,165	50,514	55,626
Dartmouth C. and Dartmouth Hitchcock Medical Center	82	83,046	78,745	80,239	84,151	43,926	44,449	42,037	48,425
U. Tennessee, Health Science Center	83	72,349	74,246	74,096	84,104	28,260	33,007	33,996	39,905
West Virginia U.	84	58,047	69,644	76,948	83,852	18,908	24,940	28,335	34,303
U. Mississippi	85	67,047	56,848	65,860	78,100	46,807	39,086	45,534	48,999
Michigan State U.	86	60,154	57,339	71,382	76,888	27,534	28,328	37,431	43,065
SUNY, Stony Brook U.	87	59,949	63,040	78,801	72,671	26,694	32,165	40,777	39,663
U. Vermont	88	64,224	63,210	65,313	69,915	33,364	37,336	40,601	42,798
U. California, Berkeley	89	55,230	58,481	60,240	64,238	25,243	26,345	33,545	33,409
Washington State U.	90	49,070	59,282	64,128	63,075	32,030	36,732	41,980	45,863
Brown U.	91	41,744	46,024	49,964	61,080	31,743	37,100	42,112	44,711
U. Puerto Rico, Medical Sciences Campus	92	37,081	43,846	47,314	60,985	26,897	32,997	34,786	46,539
Morehouse School of Medicine	93	29,813	32,637	42,489	57,125	22,500	25,181	31,339	41,069
Louisiana State U., Health Sciences Center, New Orleans	94	23,192	23,148	43,024	56,216	14,392	15,847	25,397	32,158
Tulane U.	95	41,445	46,935	50,018	54,390	16,346	21,498	21,174	22,352
U. California, Office of the President	96	40,585	40,336	43,487	53,397	123	191	0	0
Virginia Polytechnic Institute and State U.	97	47,236	51,942	48,844	51,779	19,730	21,979	19,230	25,649
Arizona State U.	98	39,268	37,201	42,576	50,218	15,960	15,101	18,176	19,340
U. Texas Medical Branch	99	42,087	44,920	48,144	48,217	27,779	31,585	30,104	32,188
Drexel U.	100	47,466	53,152	44,108	48,152	25,113	30,650	28,377	29,140
Florida State U.	101	37,353	35,745	39,431	45,584	19,862	17,927	20,449	23,544
U. Hawaii, Manoa	102	47,531	45,709	37,830	39,684	32,477	28,587	22,632	21,980
Howard U.	103	18,156	21,927	28,888	39,400	12,922	16,300	17,127	20,287
U. Delaware	104	28,705	25,483	39,058	38,006	21,603	19,296	19,299	18,616

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U. Georgia	105	32,872	35,774	36,409	36,426	12,548	13,291	12,287	11,262
Saint Louis U.	106	31,213	37,487	40,671	35,488	15,722	23,081	23,675	20,224
U. Montana, Missoula	107	25,707	30,176	31,740	35,268	21,652	26,382	27,998	30,289
Massachusetts Institute of Technology	108	20,529	21,012	27,534	34,612	14,516	16,015	20,022	27,519
East Carolina U.	109	30,285	18,142	22,935	33,801	11,137	7,931	11,397	13,910
SUNY, Upstate Medical U.	110	26,810	27,911	33,103	32,982	13,081	12,654	15,152	16,742
U. Houston	111	21,435	19,265	31,836	31,615	10,906	10,820	16,451	14,202
Colorado State U., Fort Collins	112	24,849	28,615	26,764	29,427	19,151	17,382	16,529	17,710
Auburn U., Auburn	113	10,995	15,343	14,411	27,593	1,657	1,261	982	1,883
San Diego State U.	114	12,357	15,949	22,338	27,205	8,423	11,113	15,666	17,587
U. Texas Rio Grande Valley	115	19,143	19,785	16,939	26,827	3,852	3,884	4,545	6,608
Texas Tech U., Health Sciences Center	116	21,574	20,173	23,715	25,537	3,500	3,996	6,614	6,781
Nova Southeastern U.	117	13,298	12,827	14,319	25,042	4,572	5,098	4,574	6,019
CUNY, Graduate School of Public Health and Health Policy	118	10,057	13,481	13,645	24,437	6,602	10,700	9,102	11,199
U. Texas, Dallas	119	29,609	22,215	25,570	24,356	13,568	10,719	12,530	8,192
U. Toledo	120	20,743	17,417	21,521	24,273	9,989	10,253	10,411	12,378
Loyola U., Chicago	121	18,529	21,272	21,885	23,373	9,898	10,324	9,931	11,644
SUNY, U. Albany	122	32,478	22,998	17,702	21,848	27,935	20,138	14,702	19,768
U. Louisiana, Lafayette	123	18,497	18,818	19,606	21,586	8,299	10,130	11,791	12,982
New Jersey Institute of Technology	124	17,662	18,355	21,379	21,031	13,727	6,854	3,986	0
U. South Alabama	125	18,893	23,884	19,345	21,011	11,871	12,509	11,821	9,800
U. Nevada, Reno	126	19,029	20,341	20,416	20,603	8,277	11,439	11,806	12,366
U. California, Riverside	127	12,788	15,576	18,034	19,672	9,783	12,326	14,043	15,345
Charles R. Drew U. of Medicine and Science	128	13,682	13,228	14,581	19,551	9,863	9,945	10,656	13,297
Louisiana State U., Health Sciences Center, Shreveport	129	13,911	12,906	14,239	18,404	1,658	2,167	2,115	4,617
Southern Illinois U., Carbondale	130	16,628	17,958	18,528	18,341	3,925	3,907	4,232	5,474
U. North Dakota	131	14,048	13,774	16,433	18,197	7,807	7,943	10,107	10,689
Indiana U.-Purdue U., Indianapolis	132	14,127	14,909	14,064	17,881	5,576	5,645	5,515	7,890
U. Nevada, Las Vegas	133	21,019	18,321	15,740	17,845	5,767	4,992	4,878	5,381
U. New Hampshire	134	15,276	18,883	16,527	17,761	9,845	11,612	10,148	9,132
Florida International U.	135	13,961	15,751	16,489	17,697	2,603	2,063	2,664	2,586
U. Central Florida	136	13,876	15,294	15,074	17,247	2,422	4,402	4,678	4,882
U. Missouri, Kansas City	137	14,403	12,701	25,516	16,546	9,111	7,427	14,595	8,174
Tufts U.	138	31,949	48,230	19,825	16,148	25,561	38,262	8,512	8,952
Rockefeller U.	139	14,643	14,694	15,494	15,425	4,473	5,072	4,657	4,781

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East Tennessee State U.	140	4,145	4,923	14,370	15,155	2,564	1,907	5,248	6,324
Eastern Virginia Medical School	141	10,902	10,181	9,241	14,544	8,927	8,154	8,748	10,766
U. Alabama, Tuscaloosa	142	5,383	8,980	14,749	13,736	2,364	3,177	7,688	7,366
CUNY, Queens C.	143	9,978	8,822	11,834	13,637	8,321	7,374	9,295	10,437
Central Michigan U.	144	4,390	10,781	12,783	13,508	844	904	2,537	2,490
Northeastern U.	145	10,384	10,371	11,477	13,240	4,591	4,148	3,828	7,072
Florida A&M U.	146	8,427	10,567	10,961	13,209	7,301	9,150	9,517	11,549
George Mason U.	147	7,187	8,558	8,513	13,168	3,326	4,519	4,658	8,874
U. Massachusetts, Amherst	148	10,047	9,953	10,918	13,087	6,464	6,288	7,131	7,982
Marshall U.	149	12,186	13,300	11,141	12,952	8,118	7,715	7,972	7,788
Creighton U.	150	8,797	10,453	12,417	12,793	3,209	3,874	5,425	5,722
Florida Atlantic U.	151	7,865	8,431	9,696	12,783	3,380	4,374	5,628	6,411
Oklahoma State U., Stillwater	152	8,614	5,881	6,090	12,631	1,106	603	808	1,386
U. Texas, Arlington	153	9,511	9,984	10,059	12,347	5,042	4,860	5,444	5,372
Loma Linda U.	154	7,892	6,889	7,619	11,775	4,608	4,095	3,534	5,321
Georgia State U.	155	13,803	10,926	8,380	11,730	10,882	7,260	4,184	4,893
Montana State U., Bozeman	156	10,030	12,186	13,878	11,100	7,076	9,302	10,102	7,158
Oregon State U.	157	7,447	8,767	7,475	10,346	5,837	7,005	5,573	6,902
U. Texas, El Paso	158	6,503	5,638	7,386	10,288	2,007	1,958	2,378	4,404
Georgia Institute of Technology	159	20,316	6,213	6,060	10,247	13,779	141	280	3,000
SUNY, Binghamton U.	160	8,035	7,345	9,414	10,081	1,319	897	817	1,984
U. Massachusetts, Lowell	161	5,198	6,255	8,896	10,015	1,417	2,921	5,700	5,801
Ohio U.	162	7,158	7,371	7,780	9,920	2,501	3,302	3,568	4,835
North Dakota State U.	163	8,713	7,484	7,540	9,502	5,142	4,987	5,207	6,276
U. Tennessee, Knoxville	164	9,977	10,025	10,264	9,423	4,173	4,309	4,553	3,024
Chapman U.	165	2,761	4,337	6,376	9,403	1,810	2,377	2,984	2,131
Syracuse U.	166	2,785	3,098	3,918	9,169	647	752	1,055	5,048
Marquette U.	167	4,570	5,545	5,317	8,724	1,771	2,391	1,997	3,405
Mercer U.	168	5,307	5,592	5,466	8,533	1,457	1,892	1,537	2,494
Duquesne U.	169	6,266	4,846	6,724	8,496	2,181	2,857	3,428	3,960
Oklahoma State U., Center for Health Sciences	170	7,164	6,397	6,002	8,074	2,469	1,864	1,787	1,830
Old Dominion U.	171	4,585	5,972	7,244	7,926	2,186	1,537	1,381	1,167
Texas Tech U., Health Sciences Center, El Paso	172	8,014	7,267	8,633	7,865	1,189	1,017	846	797
Edward Via C. of Osteopathic Medicine	173	7,474	6,629	7,121	7,597	565	537	482	678
U. Wyoming	174	2,320	3,903	6,761	7,519	2,026	3,205	3,038	3,543

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U. Illinois, Urbana-Champaign	175	2,845	4,630	5,483	7,433	722	1,159	1,814	2,304
New York Medical C.	176	7,585	7,563	6,552	7,136	3,010	3,308	2,824	2,680
U. Wisconsin-Milwaukee	177	6,129	5,344	6,437	6,823	3,092	3,354	4,002	3,995
Texas Tech U.	178	5,204	5,392	7,104	6,749	570	760	954	1,618
Xavier U. Louisiana	179	2,859	3,133	5,388	6,630	1,384	1,686	3,075	4,079
U. Memphis	180	5,192	5,201	5,848	6,260	1,139	1,812	2,106	2,280
Northern Arizona U.	181	5,180	5,522	4,639	6,108	3,702	3,033	3,573	4,069
Roseman U. of Health Sciences	182	4,380	5,893	6,285	6,065	56	53	30	38
Brigham Young U., Provo	183	946	1,349	1,639	5,894	392	768	988	898
Baylor U.	184	2,267	2,782	3,041	5,797	1,255	1,446	1,479	1,329
Midwestern U.	185	3,907	4,302	4,612	5,630	455	705	846	1,658
Albany Medical C.	186	6,360	6,322	6,450	5,566	677	466	568	677
Jackson State U.	187	1,084	2,492	4,507	5,450	1,044	2,095	4,115	4,887
Alabama A&M U.	188	2,991 i	3,189 i	3,333 i	5,419 i	1,916 i	2,575 i	3,196 i	4,228 i
Pacific U.	189	3,202	2,745	3,019	5,409	1,572	1,212	1,434	3,008
Wichita State U.	190	21	11,491	13,516	5,372	9	3,937	24	74
U. Nebraska, Omaha	191	3,445	6,071	6,129	5,212	2,658	5,331	5,128	4,298
Morgan State U.	192	1,931	3,273	4,340	5,188	1,764	3,085	3,606	3,391
Texas State U.	193	2,257	0	1,716	4,980	354	0	0	1,489
U. Central del Caribe	194	3,931	3,831	5,053	4,878	2,743	2,492	2,807	2,929
U. North Carolina, Greensboro	195	3,230	3,206	4,390	4,812	2,032	1,672	2,556	3,444
California State U., Long Beach	196	2,704	2,499	3,023	4,697	1,784	1,704	1,905	3,535
U. Colorado Boulder	197	5,377	4,708	5,076	4,666	3,939	3,515	4,142	4,109
U. Colorado Denver ^b	198	na	3,149	1,635	4,468	na	422	450	2,948
Clemson U.	199	7,465	7,534	7,953	4,455	1,847	2,070	1,995	2,269
SUNY, C. of Optometry	200	3,477	3,460	4,497	4,423	1,688	2,105	2,080	2,469
Rowan U.	201	7,836	6,962	6,119	4,376	3,446	2,798	2,622	686
U. of Health Sciences and Pharmacy in St. Louis	202	4,835	5,313	4,271	4,284	3,767	4,063	2,514	3,107
Wright State U.	203	5,732	4,651	4,418	4,132	3,109	2,968	2,444	1,557
CUNY, Hunter C.	204	407	685	1,204	4,014	253	308	615	2,591
U. Missouri, Saint Louis	205	5,458	4,141	4,012	3,980	2,591	2,097	1,727	1,680
San Jose State U.	206	0	1,224	2,585	3,957	0	0	114	509
U. Alaska, Fairbanks	207	431	362	2,018	3,956	431	212	759	679
Yeshiva U.	208	2,477	3,830	3,678	3,874	486	1,256	950	681
Georgia Southern U.	209	1,173	4,105	3,584	3,848	570	493	239	53

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Long Island U.	210	5,905	6,428	7,833	3,840	1,103	2,177	2,023	1,036
Kent State U.	211	1,965	2,924	3,242	3,773	424	1,459	2,020	2,146
U. North Texas, Denton	212	1,354	3,360	4,943	3,765	48	209	566	197
Saint Joseph's U.	213	35	30	3,591	3,751	0	0	370	535
South Dakota State U.	214	2,684	2,361	2,977	3,741	1,596	1,482	1,842	1,966
Northeast Ohio Medical U.	215	6,717	4,451	5,248	3,550	3,274	2,274	3,111	1,755
U. California, Merced	216	1,770	3,956	4,176	3,520	539	1,109	1,215	2,051
New York Institute of Technology	217	2,474	3,050	3,499	3,492	698	891	1,344	1,273
Ball State U.	218	1,171	1,042	3,086	3,476	598	608	2,654	3,171
U. Massachusetts, Boston	219	3,320	3,061	3,063	3,457	1,591	2,104	2,282	2,084
U. North Carolina, Charlotte	220	1,904	1,635	1,838	3,226	563	554	748	1,693
U. Guam	221	2,408	2,741	3,139	3,036	2,034	2,363	2,786	2,692
Montclair State U.	222	1,206	1,735	2,715	2,991	300	216	306	431
Brandeis U.	223	2,047	3,490	5,007	2,965	1,318	1,378	3,511	2,344
U. Alaska, Anchorage	224	129	830	2,121	2,859	0	157	1,229	1,238
Philadelphia C. of Osteopathic Medicine	225	2,415	2,837	2,675	2,848	0	0	0	0
Miami U.	226	5,586	5,813	3,856	2,729	1,085	1,133	617	270
Villanova U.	227	1,305	1,557	2,250	2,680	25	398	909	1,160
Boston C.	228	1,576	1,608	1,987	2,644	1,062	1,195	1,453	1,348
Texas Woman's U.	229	1,669	2,802	2,038	2,611	347	868	443	682
California Polytechnic State U., San Luis Obispo	230	2,899	2,546	2,181	2,570	1,836	2,014	1,340	1,695
Winston-Salem State U.	231	1,716	3,341	2,169	2,529	1,366	2,326	1,952	2,415
Western Michigan U. and Homer Stryker M.D. School of Medicine	232	1,136	663	1,016	2,506	276	117	157	203
U. Southern Mississippi	233	2,300	2,235	2,111	2,504	608	503	427	487
New England C. of Optometry	234	1,150	1,978	1,868	2,491	785	1,623	1,609	1,946
California State U., Fullerton	235	707	537	1,345	2,469	335	192	349	683
Boise State U.	236	1,343	1,723	2,279	2,373	867	1,345	1,719	1,588
Texas Christian U.	237	464	389	284	2,364	124	178	128	246
MGH Institute of Health Professions	238	1,587	1,200	2,200	2,300	1,587	1,200	2,200	2,300
Gallaudet U.	239	384	630	1,105	2,289	383	368	883	1,630
U. Texas, San Antonio	240	2,014	1,961	2,527	2,193	808	928	994	691
Kansas State U.	241	752	638	434	2,125	752	635	384	1,013
Mississippi State U.	242	1,738	1,887	2,544	2,029	206	734	1,328	830
Saginaw Valley State U.	243	1,145	1,199	1,845	2,025	1,083	1,137	1,515	1,620
U. South Dakota	244	1,743	1,576	4,478	1,953	504	546	600	622

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
DePaul U.	245	79	60	785	1,928	0	0	773	1,455
Northern Illinois U.	246	1,854	1,660	1,628	1,922	200	336	306	171
St. John's U., New York	247	1,326	1,152	1,357	1,918	556	643	826	1,319
East Stroudsburg U. Pennsylvania	248	ne	ne	54	1,896	ne	ne	0	0
Tuskegee U.	249	0	0	23	1,879	0	0	23	0
James Madison U.	250	631	1,429	2,138	1,834	0	19	34	6
CUNY, City C.	251	4,387	2,112	2,663	1,792	2,024	1,236	932	1,487
Seton Hall U.	252	0	0	0	1,778	0	0	0	1,242
Marshall B. Ketchum U.	253	1,357 i	1,351 i	1,559 i	1,777 i	323 i	343 i	383 i	433 i
Illinois Institute of Technology	254	1,023	1,465	1,198	1,759	487	662	619	1,355
Louisiana Tech U.	255	449	370	1,365	1,725	37	6	536	845
U. Maine	256	385	466	1,006	1,721	0	0	115	469
Bowling Green State U.	257	304	1,535	1,368	1,720	122	294	404	399
Delaware State U.	258	2,777 i	2,245	984	1,641	305 i	351	276	855
Portland State U.	259	2,224	1,184	1,368	1,639	2,097	1,009	1,011	845
U. Oklahoma, Tulsa	260	2,633	2,096	2,351	1,638	493	260	416	287
Oakland U.	261	1,603	1,402	2,215	1,568	69	232	524	516
Louisiana State U., Baton Rouge	262	928	566	670	1,532	527	234	167	577
U. Texas, Tyler	263	440	332	1,233	1,519	272	222	344	667
Western Kentucky U.	264	686	665	1,005	1,505	0	180	304	740
Reed C.	265	0	0 i	1,307 i	1,491 i	0	0 i	387 i	438 i
U. Louisiana, Monroe	266	1,665	1,559	2,258	1,486	1,379	934	1,321	1,056
Salisbury U.	267	1,995	2,120	1,710	1,439	0	0	0	0
Rosalind Franklin U. of Medicine and Science	268	1,691	1,893	1,013	1,429	770	948	585	770
Eastern Michigan U.	269	1,872	1,406	1,219	1,413	1,413	1,073	811	1,002
Tarleton State U.	270	350	482	763	1,399	0	0	0	0
Michigan Technological U.	271	1,390	849	823	1,370	399	187	274	554
Dine C.	272	328	ne	1,762	1,367	328	ne	1,762	1,075
National U. of Natural Medicine	273	1,428	850	ne	1,336	912	523	ne	862
Merrimack C.	274	253	ne	ne	1,331	168	ne	ne	865
Pennsylvania State U., Harrisburg	275	327	1,267	783	1,316	303	1,239	783	1,306
Utah State U.	276	2,526	1,966	1,797	1,306	1,877	1,390	1,003	785
U. Massachusetts, Dartmouth	277	77	109	395	1,294	0	0	0	0
U. Dayton	278	216	210	446	1,273	172	195	434	1,269
U. Central Oklahoma	279	63 i	66 i	1,138 i	1,267 i	59 i	62 i	293 i	325 i

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
California State U., Fresno	280	572	752	1,117	1,252	10	0	17	137
U. New England	281	2,080	1,366	1,106	1,180	1,428	718	395	577
Azusa Pacific U.	282	1,876	848	451	1,179	116	42	7	7
Towson U.	283	295	432	839	1,167	13	18	0	33
Clark U.	284	0	0	1,021	1,143	0	0	0	0
U. Washington, Bothell	285	297	175	530	1,131	297	145	413	575
California State U., East Bay	286	629	615	1,349	1,126	154	292	499	475
Ferris State U.	287	ne	ne	ne	1,112	ne	ne	ne	815
New Mexico State U.	288	449	492	903	1,106	397	434	385	444
Carnegie Mellon U.	289	824	895	1,006	1,102	493	407	471	589
U. Wisconsin-Green Bay	290	649 i	730 i	1,066 i	1,092 i	284 i	315 i	376 i	439 i
Northern Kentucky U.	291	532	1,377	1,576	1,091	295	1,044	1,238	1,015
U. Alabama, Huntsville	291	1,122	1,179	1,159	1,091	39	0	8	46
U. Hawaii, Hilo	293	851	1,263	1,018	1,039	631	918	826	886
Idaho State U.	294	1,477	1,202	1,157	1,013	283	188	203	179
Oregon Institute of Technology	295	777 i	780 i	919 i	995 i	0	42 i	57 i	230 i
Florida Gulf Coast U.	296	632	897	1,945	975	594	892	1,689	962
U. San Francisco	297	195	284	307	959	0	0	56	329
Bentley U.	298	ne	ne	652	928	ne	ne	0	159
Grand Valley State U.	298	1,216	1,205	1,253	928	673	481	755	438
U. North Florida	300	481	404	937	905	0	0	0	9
Northeastern Illinois U.	301	873	724	1,092	895	873	724	1,092	895
Purdue U., Northwest	302	920	945	1,073	873	131	127	106	127
Cleveland State U.	303	2,797	3,312	1,976	866	433	1,215	31	0
Touro U., New York ^f	303	ne	ne	ne	866	ne	ne	ne	146
Southern U. and A&M C., Agricultural Research and Extension Center	305	662	765	803	858	0	0	0	0
Dillard U.	306	224	534	424	818	2	181	94	369
U. North Carolina, Asheville	306	718	1,014	606	818	667	939	481	667
Fayetteville State U.	308	1,075	930	728	810 i	0	0	381	422 i
CUNY, C. Staten Island	309	723	690	520	744	0	502	520	565
West Virginia School of Osteopathic Medicine	310	669	721	659	718 i	362	359	349	373 i
Southern Connecticut State U.	311	907	452	567	706	102	54	178	242
Marymount U.	312	ne	531	379	698	ne	163	17	33
U. Northern Colorado	313	311	156	297	688	128	35	32	18
U. Nebraska, Kearney	314	632	394	552	683	327	218	491	622

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. of the Pacific	315	341	183	232	666	328	172	214	188
West Chester U. Pennsylvania	316	613	465	618	638	73	70	157	152
Sacred Heart U.	317	ne	24	ne	593	ne	0	ne	0
Hofstra U.	318	47	359	292	586	0	0	0	11
U. Denver	319	0	0	0	576	0	0	0	323
U. Tulsa	320	178	118	180	574	28	0	0	0
Langston U.	321	1,578	1,219	378	562	1,578	434	0	0
Haverford C.	322	0 i	334 i	549 i	559 i	0	3	126	141
Northwest Indian C.	323	365 i	435 i	504	539 i	365 i	435 i	504	539 i
Rutgers, State U. New Jersey, Newark	324	338	2,648	168	524	0	1,484	0	0
Illinois State U.	325	991	1,249	758	523	684	898	730	177
Hampton U.	326	962	813	603	493	962	813	603	493
South Carolina State U.	327	343 i	393 i	441 i	490	328 i	362 i	395 i	429
Skidmore C.	328	852	691	218	484	730	543	80	327
Appalachian State U.	329	409	269	404	468	64	53	59	20
U. Central Arkansas	330	386	293	512	454	115	83	114	50
Pennsylvania State U., Altoona	331	ne	ne	ne	443	ne	ne	ne	0
U. Idaho	332	121	97	280	438	93	29	65	12
Embry-Riddle Aeronautical U.	333	0	0	1,020	437	0	0	514	311
Marian U., Indianapolis	334	ne	ne	ne	431	ne	ne	ne	89
U. Maryland, Eastern Shore	335	259	635	347	427	259	635	347	427
U. Houston-Clear Lake	336	0	92	351	411	0	0	0	0
California State U., Sacramento	337	325	340	324	409	0	0	17	31
Kean U.	338	120	16	138	406	0	0	29	0
U. Detroit Mercy	339	318	353	617	401	18	0	267	0
Pace U.	340	378	342	364	399	19	10	0	0
Southern Illinois U., Edwardsville	341	3,799	4,878	803	380	961	1,115	766	380
California State U., Northridge	342	0	0	0	375	0	0	0	375
Butler U.	343	ne	ne	638	370	ne	ne	487	351
Saint John's U.	344	12 i	275 i	317 i	361 i	0 i	0 i	0 i	0 i
Alcorn State U.	345	108	294	298 i	348	107	257	247 i	292
California State U., Los Angeles	345	257	264	439	348	235	235	383	348
Seattle U.	345	0	0	73	348	0	0	69	222
U. Oregon	348	1,004	817	118	345	4	297	0	0
Lipscomb U.	349	0 i	0	ne	343	0 i	0	ne	65

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
C. of Saint Benedict	350	14 i	259 i	299 i	341 i	0 i	10 i	11 i	13 i
Indiana State U.	351	55	9	213	332	12	8	170	282
Western Carolina U.	352	774	927	796	324	621	687	588	240
U. Maryland, Baltimore County	353	934	22	259	320	142	4	35	31
Texas A&M U.-Commerce	354	47	86	70	318	0	0	0	0
Western New England U.	354	ne	ne	134	318	ne	ne	134	83
Drake U.	356	ne	362	302	315	ne	45	40	26
Albany C. of Pharmacy and Health Sciences	357	1,033	125	275	313 i	827	44	152	172 i
Tennessee Technological U.	358	96	143	304	312	0	78	233	197
Texas A&M U.-Corpus Christi	359	22	162	92	304	0	0	0	0
Des Moines U.	360	567	316 i	363	303	0	120 i	187	166
San Francisco State U.	361	190 i	205	267	297	42 i	42	48	0
SUNY, C. Plattsburgh	362	465	279	112	292	429	279	112	217
Pennsylvania State U., Behrend	363	0	29	253	283	0	0	238	279
Northern Michigan U.	364	200	121	201	278	0	0	0	0
U. West Florida	365	109	45	310	275	28	11	183	166
Rochester Institute of Technology	366	0	0	0	274	0	0	0	241
Pepperdine U.	367	18	161	96	256	0	0	25	95
CUNY, Graduate Center	368	0	0	0	240	0	0	0	0
Western U. of Health Sciences	369	323	35	144	234	14	16	2	12
Lamar U.	370	36	32	117	233	0	0	35	182
Liberty U.	370	26	21	ne	233	0	0	ne	0
Naval Postgraduate School	370	200	270	456	233	200	270	456	170
North Carolina Central U.	373	360	73	202	230 i	302	1	0	0 i
Clafin U.	374	0	23	76	225	0	23	76	225
U. New Haven	375	5	11	114	212	0	11	96	139
Clarkson U.	376	97	93	101	201	54	0	0	69
Norwich U.	377	ne	ne	ne	197	ne	ne	ne	196
Elon U.	378	45	180	238	196	16	0	97	0
U. Michigan, Dearborn	379	261	151	118	192	171	140	116	178
Northwestern State U. Louisiana	380	176	82	164	183 i	1	0	13	14 i
Bowie State U.	381	0	0	1,143	181	0	0	1,143	181
North Carolina A&T State U.	382	0	989	551	175	0	989	551	175
CUNY, Brooklyn C.	383	660	65	172	174	556	0	151	127
U. Arkansas, Fayetteville	383	3,213	3,825	4,979	174	821	1,351	2,048	143

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Tennessee, Chattanooga	383	193	132	159	174	0	0	5	52
Middle Tennessee State U.	386	112	667	734	169	0	12	21	50
SUNY, Polytechnic Institute	387	0	175	144	160	0	175	144	160
Wheaton C., Wheaton	387	161	33	ne	160	142	18	ne	160
U. Akron	389	183	210	284	151	143	153	196	44
U. North Carolina, Wilmington	390	481	533	169	149	151	129	30	97
Southern U. and A&M C., Baton Rouge	391	2	19	120	148	0	17	120	148
Savannah State U.	392	152	178	155	147	152	178	155	147
Texas A&M International U.	393	220	8	305	145	123	0	289	103
Western Washington U.	394	0	171	145	140	0	0	0	0
CUNY, York C.	395	9	5	139	139	0	0	134	121
Loyola Marymount U.	395	6	127	171	139	0	0	0	0
Smith C.	395	126	146	133	139	14	79	105	102
Franklin and Marshall C.	398	6	163	138	136	0	92	126	126
St. Edward's U.	399	0	0	0	135	0	0	0	78
U. Wisconsin-Platteville	400	0 i	98 i	116 i	127 i	0 i	34 i	42 i	45 i
Occidental C.	401	0	86	106 i	123 i	0	0	0 i	0 i
Texas A&M U.-Kingsville	402	0	0	0	116	0	0	0	0
Florida Institute of Technology	403	0	588	42	114	0	460	0	114
Indiana U. Pennsylvania	404	144	59	70	110	0	0	0	0
U. Colorado Colorado Springs	405	62	0	43	107	0	0	0	0
Furman U.	406	72	39	75	99	39	26	0	0
Johnson C. Smith U.	407	246	0 i	0	98	246	0 i	0	98
CUNY, Lehman C.	408	1	68	32	92	0	68	19	38
U. of the Incarnate Word	408	531	546	146	92	531	516	146	92
U. Hartford	410	101	77	72	91	101	77	67	53
California State U., San Marcos	411	324	128	30	89	254	100	30	61
C. Charleston	412	146	76	121	88	0	0	19	0
California State U., Chico	412	0	35	10	88	0	0	0	0
Fairfield U.	412	49	22	ne	88	0	0	ne	0
Spelman C.	415	20	149	96	86	20	149	96	86
Central Washington U.	416	0	31	135	84	0	0	0	0
Indiana U., South Bend	416	ne	13	ne	84	ne	0	ne	0
California State U., San Bernardino	418	9	11	63	82	0	0	0	12
California State U., Dominguez Hills	419	21	64	41	78	0	0	0	0

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Washington, Tacoma	419	0	40	0	78	0	0	0	0
Hope C.	421	7	22	3	77	0	0	0	0
United Tribes Technical C.	422	ne	ne	ne	76	ne	ne	ne	76
U. San Diego	423	121	74	59	75	34	9	0	26
Lincoln U.	424	ne	ne	ne	74	ne	ne	ne	74
Coastal Carolina U.	425	0	2	11	71	0	0	0	30
William Paterson U.	425	650	414	507	71	0	9	7	26
Radford U.	427	ne	ne	ne	69	ne	ne	ne	17
St. Olaf C.	427	81	69	ne	69	0	0	ne	4
Lincoln Memorial U.	429	ne	ne	ne	68	ne	ne	ne	0
U. South Carolina, Beaufort	430	ne	ne	ne	64	ne	ne	ne	0
Keck Graduate Institute	431	0 i	0 i	0	62	0 i	0 i	0	49
California State U., Channel Islands	432	0	153	22	58	0	141	0	0
Southeastern Louisiana U.	433	148	158	104	56	136	139	93	51
Central State U.	434	0	0	0	51	0	0	0	51
Arkansas State U., Jonesboro	435	32	36	77	48	0	0	0	0
Roger Williams U.	435	0	0	7	48	0	0	7	40
Macalester C.	437	0	0	16	47	0	0	16	47
California State Polytechnic U., Humboldt	438	246	129	99	45	0	0	0	0
Fort Lewis C.	438	11	25	32	45	0	0	32	22
U. Houston-Downtown	438	0	0	0	45	0	0	0	45
C. New Jersey	441	8	13	199	44	0	0	20	1
Grambling State U.	441	0	0	65 i	44	0	0	65 i	44
Arcadia U.	443	ne	201	ne	43	ne	94	ne	18
U. Wisconsin-Eau Claire	444	46	58	27	41	0	0	0	0
Wellesley C.	444	0	0	0	41	0	0	0	41
Santa Clara U.	446	3	4	0	40	3	4	0	0
Stephen F. Austin State U.	447	92	79	81	39	0	0	0	1
Virginia State U.	448	179	190	127	38	179	190	127	38
Colorado School of Mines	449	132	257	67	35	125	242	60	4
Hawaii Pacific U.	449	0	0	72	35	0	0	12	0
Calvin U.	451	47 i	68 i	89 i	33 i	0 i	0 i	0	0
Robert Morris U.	452	ne	ne	28 i	31	ne	ne	0 i	0
Kennesaw State U.	453	965	725	0	29	315	27	0	29
Austin Peay State U.	454	3	1	6	28	0	0	0	16

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
U. Notre Dame	454	231	163	155	28	0	0	0	0
St. Cloud State U.	456	78	16	18	26	0	0	1	0
California State U., Monterey Bay	457	49	182	192	24	0	138	157	0
Lehigh U.	458	0	0	14	23	0	0	14	23
Ithaca C.	459	303	95	111	21	276	78	92	10
U. Arkansas, Little Rock	459	35	21	0	21	35	21	0	6
U. Wisconsin-Oshkosh	459	5 i	5	23	21	0 i	0	0	0
Youngstown State U.	459	27	28	32	21	0	20	20	18
Andrews U.	463	0	0	ne	19	0	0	ne	0
U. Puerto Rico, Cayey	464	426	169	0	18	327	169	0	18
Biola U.	465	0 i	0 i	0	14	0 i	0 i	0	0
U. Puget Sound	465	20	ne	22	14	0	ne	0	0
Tennessee State U.	467	630	19 i	14	13	609	19 i	14	3
U. Scranton	467	ne	ne	ne	13	ne	ne	ne	0
Prairie View A&M U.	469	48	28	27	11	48	28	26	9
Citadel Military C. South Carolina	470	34	5	29	10	0	0	0	0
Texas A&M U.-San Antonio	470	ne	ne	59	10	ne	ne	0	0
U. Wisconsin-La Crosse	470	22	12	18	10	0	0	0	0
California State U., Bakersfield	473	22	0	0	9	0	0	0	0
Colorado State U., Pueblo	473	0	0	0	9	0	0	0	0
Norfolk State U.	473	0	0	55	9	0	0	8	0
U. North Georgia	473	67	2	13	9	67	0	0	0
U. Texas of the Permian Basin	477	0	8	43	8	0	0	0	0
Willamette U.	477	12	2	1	8	0	0	0	0
Purdue U., Fort Wayne	479	5	3	0	7	0	0	0	0
Trinity U.	479	6	6	21	7	0	0	0	0
SUNY, Oswego	481	5	6	1	6	0	0	0	0
U. Southern Maine	481	74	59	24	6	22	14	0	0
U. Wisconsin-Stevens Point	481	23	2	2	6	19	0	0	0
California State U., Stanislaus	484	6	10	90	5	0	0	80	0
CUNY, system office	484	0	0	5	5	0	0	0	0
Eastern Kentucky U.	484	80	18	ne	5	44	14	ne	0
New School	484	12	18	0	5	12	8	0	0
Sonoma State U.	484	45	16	10	5	17	12	7	0
Gettysburg C.	489	3	ne	ne	4	0	ne	ne	0

TABLE 46

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2023 total: FYs 2020–23

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2020	2021	2022	2023	2020	2021	2022	2023
Missouri State U.	489	0	0	3	4	0	0	0	0
U. of Mary Washington	489	0	0	0	4	0	0	0	0
CUNY, John Jay C. of Criminal Justice	492	28	5	8	3	2	5	0	0
U. Minnesota, Duluth	492	1	0	0	3	0	0	0	2
U. Puerto Rico, Rio Piedras	492	27	49	151	3	27	13	151	0
U. Rhode Island	495	2,397	3,849	5,359	2	2,339	2,771	3,547	0
Morehead State U.	496	0	0	0	1	0	0	0	0
Suffolk U.	496	0	0	0	1	0	0	0	0
SUNY, C. Brockport	496	12	76	26	1	0	0	0	0
U. South Carolina, Aiken	496	0	0	157	1	0	0	0	0
All other surveyed institutions	-	681,004	170,129	127,074	0	395,981	77,012	52,865	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 \$10,448 thousand imputed for total and \$9,589 thousand reported for federally financed R&D expenditures in health sciences in FY 2023. 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 Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^c 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.

^d The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^e The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^f Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 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.