

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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	-	13,722,803	14,516,633	15,392,567	15,761,876	8,179,596	8,572,870	9,263,466	9,339,917
U. Pennsylvania	1	692,343	727,296	743,835	780,497	366,337	373,564	390,906	390,309
Harvard U.	2	479,595	486,362	536,371	534,656	286,092	299,638	337,304	325,366
Scripps Research Institute	3	354,582	396,839	427,734	444,964	250,090	267,088	267,122	243,502
Icahn School of Medicine at Mount Sinai	4	275,705	300,271	359,149	359,900	159,892	169,196	198,767	208,188
Washington U., Saint Louis	5	297,046	327,959	354,062	359,856	188,943	198,645	211,425	216,565
Rockefeller U.	6	314,916	319,636	318,581	322,734	75,193	76,714	75,507	78,153
Cornell U.	7	299,232	298,172	314,443	311,954	127,657	128,421	146,718	153,222
Baylor C. of Medicine	8	319,076	309,943	298,881	311,546	191,895	189,614	171,688	166,676
Johns Hopkins U. ^a	9	289,980	288,079	326,327	311,295	201,514	194,395	228,297	221,384
U. Texas M. D. Anderson Cancer Center	10	309,987	283,074	289,848	304,198	71,042	72,068	74,738	64,702
U. Pittsburgh, Pittsburgh	11	255,233	279,951	294,582	294,183	176,416	185,759	189,292	189,410
U. Wisconsin-Madison	12	194,360	220,658	261,715	277,654	111,331	138,453	161,268	162,347
U. Michigan, Ann Arbor	13	216,493	230,944	258,013	266,507	149,399	154,781	176,626	180,703
U. Washington, Seattle	14	255,654	288,723	257,677	260,831	164,641	177,908	152,127	153,375
New York U.	15	166,380	241,316	250,281	250,446	110,917	132,039	138,450	147,771
Duke U.	16	207,819	221,378	237,097	245,327	161,533	172,875	189,808	195,787
U. Virginia, Charlottesville	17	105,312	199,462	212,843	230,231	67,457	104,569	118,802	128,995
Stanford U.	18	185,054	188,026	189,727	228,842	142,966	148,089	150,221	179,023
U. California, Davis	19	200,810	220,855	224,044	218,316	121,310	136,830	140,036	136,739
U. Texas Southwestern Medical Center	20	156,544	161,587	177,357	214,795	72,552	72,589	75,227	88,551
U. Arizona	21	147,594	174,310	200,691	212,741	66,908	72,873	96,689	101,105
Yale U.	22	177,565	187,310	208,829	206,929	113,117	131,070	141,401	140,048
Columbia U. in the City of New York	23	172,179	181,521	196,254	206,509	135,559	144,946	158,280	168,917
Vanderbilt U. and Vanderbilt U. Medical Center	24	164,993	170,095	172,681	183,620	91,331	98,642	102,998	109,381
Emory U.	25	184,693	184,096	187,084	182,193	145,302	141,403	148,788	144,201
U. Kentucky	26	142,104	161,764	178,030	175,026	67,091	76,484	92,761	93,567
U. North Carolina, Chapel Hill	27	164,272	157,615	165,804	167,907	113,690	114,659	125,292	123,492

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U. Maryland ^b	28	na	na	152,853	166,254	na	na	104,187	114,209
Boston U.	29	99,214	112,076	150,669	163,939	70,724	72,295	98,855	110,627
Northwestern U.	30	130,422	128,409	141,523	153,629	87,277	85,061	92,458	99,378
U. Georgia	31	158,302	135,348	140,018	143,796	71,127	67,061	72,403	78,657
U. Texas Medical Branch	32	133,389	129,408	130,473	137,316	73,357	72,829	79,850	86,048
U. Massachusetts, Medical School	33	85,880	83,615	134,842	137,103	60,409	60,397	98,979	96,954
U. Alabama, Birmingham	34	121,086	122,978	137,196	132,963	86,350	86,516	99,731	98,997
U. Southern California	35	126,927	137,003	140,622	132,168	84,469	87,707	93,324	91,893
U. California, Berkeley	36	85,771	96,014	104,849	130,392	50,189	53,745	57,666	67,501
U. Iowa	37	118,976	127,863	122,729	126,870	69,717	71,337	73,711	78,419
U. Florida	38	128,705	135,774	143,488	125,655	64,771	71,623	70,530	61,336
Indiana U., Bloomington	39	92,024	111,097	116,176	123,811	62,204	66,112	79,405	81,032
North Carolina State U.	40	110,122	108,990	120,567	120,671	38,257	42,858	44,058	42,625
Michigan State U.	41	113,371	113,287	119,653	117,715	53,661	55,685	60,584	61,131
U. California, Irvine	42	68,604	87,482	103,711	114,449	43,321	51,035	61,632	64,157
Rutgers, State U. New Jersey, New Brunswick	43	90,391	76,998	91,356	113,712	53,185	54,571	52,365	57,418
Cold Spring Harbor Laboratory	44	97,288	115,302	125,151	113,394	54,260	66,716	72,319	60,487
U. Minnesota, Twin Cities	45	101,566	108,847	101,129	111,883	51,912	53,029	55,639	63,674
U. Nebraska, Medical Center	46	93,538	87,765	103,618	105,620	50,964	60,538	70,813	70,536
Pennsylvania State U., University Park and Hershey Medical Center	47	80,560	90,168	84,873	98,382	48,044	48,689	51,335	56,971
Tufts U.	48	100,615	34,372	80,921	92,119	66,217	25,340	58,033	69,674
U. South Florida, Tampa	49	127,159	116,411	115,159	90,898	83,465	83,905	85,703	64,867
California Institute of Technology	50	74,998	76,044	84,558	89,580	52,373	54,071	60,603	65,017
SUNY, U. Buffalo	51	71,749	76,477	82,365	88,070	41,733	40,689	42,370	47,604
Dartmouth C. and Dartmouth Hitchcock Medical Center	52	88,109	87,469	90,029	84,528	48,003	48,748	48,255	49,057
Medical C. Wisconsin	53	68,694	74,302	80,531	83,882	44,317	44,245	45,066	47,297

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Ohio State U.	54	66,212	68,305	76,202	83,715	44,585	46,189	51,272	58,581
U. Chicago	55	83,892	81,872	86,619	83,295	65,117	61,084	66,862	67,334
Case Western Reserve U.	56	70,184	79,653	77,957	82,470	55,415	64,236	65,059	69,339
Princeton U.	57	69,507	80,786	87,248	81,137	42,586	46,563	52,855	50,581
U. Illinois, Chicago	58	70,453	71,150	74,126	81,071	42,491	43,533	45,838	42,919
U. Miami	59	49,565	53,646	67,787	78,338	36,999	40,358	56,865	64,201
U. Illinois, Urbana-Champaign	60	58,090	64,375	66,393	77,458	35,060	35,615	39,824	44,234
Texas A&M U., College Station and Health Science Center	61	56,657	69,786	72,472	77,408	31,594	39,581	46,051	50,356
U. Connecticut	62	62,173	62,683	69,141	75,806	40,486	39,866	46,453	49,480
Thomas Jefferson U.	63	57,255	64,509	73,544	74,942	34,498	36,194	42,959	42,244
U. Louisiana, Lafayette	64	20,954	62,238	16,539	68,528	7,461	11,620	5,706	11,539
U. Texas Health Science Center, San Antonio	65	57,808	61,000	62,855	67,851	37,617	39,389	42,261	49,214
U. Arkansas for Medical Sciences	66	38,959	43,473	52,686	67,447	23,811	31,028	32,967	38,357
Massachusetts Institute of Technology	67	68,109	75,156	82,262	67,446	42,111	47,512	44,519	42,112
Arizona State U.	68	82,329	96,535	67,597	63,293	49,705	52,837	31,588	35,741
U. Texas, Austin	69	53,273	66,148	58,063	62,802	31,905	45,915	39,470	38,317
U. California, San Diego	70	43,526	57,996	64,858	62,532	26,794	31,178	36,228	36,347
Medical U. South Carolina	71	65,344	65,313	67,708	62,475	47,000	48,808	51,154	49,032
U. Kansas	72	61,354	58,052	62,491	62,277	35,819	36,574	38,434	38,670
U. Cincinnati	73	55,554	56,993	58,504	62,270	31,051	28,826	30,186	35,074
SUNY, Stony Brook U.	74	39,739	52,172	60,050	61,121	28,481	37,236	37,657	39,569
U. California, Riverside	75	55,461	56,847	58,738	60,674	19,523	18,234	19,808	25,037
U. Louisville	76	52,018	56,117	55,219	60,608	33,426	36,162	39,225	39,447
Van Andel Research Institute	77	23,406	55,171	61,738	58,982	13,108	14,285	18,259	18,538
Brown U.	78	35,578	44,244	51,017	57,280	27,833	33,537	37,878	41,143
Louisiana State U., Baton Rouge	79	56,590	55,119	57,732	56,483	31,986	27,594	28,862	26,797
U. Vermont	80	36,072	40,394	46,795	54,565	27,555	29,532	35,346	37,701
U. Texas Health Science Center, Houston	81	50,298	54,940	55,055	54,213	34,697	37,348	38,689	35,502
U. Rochester	82	48,761	53,493	53,241	54,066	38,063	40,933	43,634	44,908

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Virginia Commonwealth U.	83	46,806	46,022	50,240	53,656	38,710	36,713	39,483	40,720
U. Hawaii, Manoa	84	38,129	53,826	54,997	53,100	14,030	17,957	18,542	16,953
George Washington U.	85	46,810	56,145	54,126	52,902	28,187	35,501	35,141	33,137
U. Missouri, Columbia	86	59,437	57,829	55,276	50,323	40,865	39,559	41,455	39,472
Georgia State U.	87	37,858	51,668	48,140	50,131	21,888	23,612	23,302	24,615
Temple U.	88	48,976	49,745	47,651	43,913	35,004	36,353	34,253	34,298
U. Oklahoma, Norman and Health Science Center	89	34,748	35,948	37,322	43,605	20,497	22,620	23,109	28,155
Cleveland State U.	90	44,403	42,253	40,075	43,464	38,383	38,203	35,061	40,320
U. Colorado Boulder	91	25,393	30,851	41,686	41,081	22,374	24,907	35,165	34,958
Augusta U.	92	37,664	36,335	36,815	40,513	24,157	24,962	24,358	29,605
Virginia Polytechnic Institute and State U.	93	50,905	51,145	46,123	40,276	18,832	19,187	18,532	15,769
U. Utah	94	50,471	20,288	16,890	40,013	33,572	14,047	10,592	24,860
Colorado State U., Fort Collins	95	32,767	36,844	40,348	39,769	23,005	23,392	25,346	23,865
Florida International U.	96	28,504	31,331	33,053	39,760	14,755	16,457	16,837	19,181
Iowa State U.	97	69,333	62,125	56,405	39,072	30,468	25,824	26,626	18,255
Tulane U.	98	29,322	33,655	30,686	39,053	17,957	21,809	22,410	26,219
Oregon State U.	99	36,697	34,352	34,305	38,938	22,601	24,323	24,413	27,860
Drexel U.	100	42,521	42,647	41,484	38,200	24,616	25,618	25,535	24,521
U. Nevada, Reno	101	33,058	31,513	32,985	36,791	21,855	15,433	17,099	18,123
Washington State U.	102	44,943	41,126	41,122	35,845	24,797	25,355	25,006	21,674
Purdue U., West Lafayette	103	16,548	20,819	25,238	34,790	9,416	12,874	12,048	13,534
U. California, Los Angeles	104	33,896	38,362	38,154	34,022	23,161	24,572	24,564	22,266
U. Oregon	105	30,835	34,474	34,751	33,631	26,838	25,062	28,993	28,932
SUNY, Downstate Medical Center	106	30,512	34,476	35,422	32,389	21,135	26,117	26,744	26,171
Kansas State U.	107	23,382	31,202	30,002	30,940	10,468	14,072	13,583	14,289
U. Nebraska, Lincoln	108	29,240	28,530	29,626	30,234	11,764	10,914	11,404	12,887
U. New Mexico	109	30,906	33,124	30,297	28,740	24,975	27,509	25,369	23,802
Clemson U.	110	22,194	24,282	25,381	28,361	7,445	7,421	8,049	8,494
Saint Louis U.	111	23,356	23,071	25,209	27,623	13,022	12,310	13,370	13,489
SUNY, U. Albany	112	27,561	32,153	32,595	27,543	17,894	19,878	19,522	17,227
U. Notre Dame	113	26,885	25,857	26,385	27,095	11,737	11,043	13,259	11,155

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Oregon Health and Science U.	114	142,992	154,478	150,395	26,551	101,240	114,716	122,388	20,651
U. Massachusetts, Amherst	115	20,051	22,897	24,678	25,906	11,801	13,759	14,835	15,754
West Virginia U.	116	17,397	17,860	18,919	25,158	9,973	9,954	9,967	12,150
George Mason U.	117	12,803	10,031	9,520	25,142	9,380	7,049	6,580	5,178
U. California, Santa Cruz	118	22,706	21,950	23,762	24,318	16,353	15,425	15,861	16,755
U. California, Santa Barbara	119	24,818	28,520	27,718	24,077	12,183	14,665	15,351	12,288
Wayne State U.	120	30,522	27,671	30,203	24,007	19,562	17,035	18,330	14,506
Northern Arizona U.	121	18,223	22,687	26,194	23,741	10,799	13,836	18,081	15,010
U. Texas, San Antonio	122	16,323	15,062	20,972	23,733	8,124	7,819	11,309	9,925
Florida State U.	123	21,527	22,880	24,383	22,836	11,630	12,366	13,487	12,479
U. Idaho	124	18,303	17,385	19,378	22,764	11,767	10,754	13,092	17,044
U. Tennessee, Knoxville ^c	125	12,741	16,939	17,425	22,643	8,029	8,247	8,087	10,968
U. Montana, Missoula	126	17,620	17,081	20,283	22,464	12,275	12,101	11,575	15,437
U. Tennessee, Health Science Center	127	16,311	15,901	18,079	22,245	12,981	12,182	14,535	19,859
Texas Tech U., Health Sciences Center	128	16,459	15,401	20,207	21,528	4,847	4,108	7,666	9,477
U. Texas Health Science Center, Tyler	129	14,555	17,949	19,606	21,265	4,055	6,438	7,084	7,732
Brandeis U.	130	30,140	24,400	22,063	21,190	23,702	19,117	19,823	20,298
Montana State U., Bozeman	131	15,363	16,600	19,659	19,994	11,165	13,148	14,355	14,059
Oklahoma State U., Stillwater	132	32,697	34,590	19,934	19,956	13,128	12,518	7,680	7,699
Louisiana State U., Health Sciences Center, New Orleans	133	18,285	18,827	18,839	19,533	14,104	15,141	16,081	16,359
Georgia Institute of Technology	134	18,607	26,327	24,989	18,410	11,173	15,783	15,498	9,186
U. South Carolina, Columbia	135	12,560	12,482	13,120	18,374	6,951	8,654	10,225	10,663
U. Rhode Island	136	6,667	9,141	13,997	18,161	5,914	8,068	11,877	15,256
U. North Texas, Health Science Center	137	19,505	19,354	20,989	17,823	9,036	7,239	8,378	6,661
U. North Dakota	138	18,794	18,184	16,722	17,478	9,381	8,856	7,707	8,147
Albany Medical C.	139	14,380	14,368	16,236	17,150	10,800	9,912	11,220	12,263

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Florida Atlantic U.	140	9,984	11,013	13,061	16,997	2,111	2,372	3,616	6,357
U. Texas, El Paso	141	17,871	17,475	20,446	16,280	10,941	9,515	9,607	8,015
Rice U.	142	13,593	14,193	13,966	16,008	7,686	7,813	8,245	8,540
U. Mississippi	143	22,258	29,293	33,394	15,866	15,689	20,648	26,331	11,028
Loyola U., Chicago	144	14,148	12,873	14,788	15,804	9,567	8,743	10,413	11,042
Auburn U., Auburn	145	10,317	11,229	13,317	15,224	4,538	5,741	5,412	5,918
U. South Dakota	146	14,733	15,990	16,612	15,109	8,956	9,639	9,315	9,131
Georgetown U.	147	13,729	12,679	14,202	14,827	10,634	9,221	10,309	9,790
U. Central Florida	148	12,093	12,483	13,148	14,746	7,933	7,963	8,324	10,063
Northeastern U.	149	15,712	15,224	14,380	14,718	10,692	10,736	10,474	12,023
SUNY, Upstate Medical U.	150	14,802	14,971	15,003	14,671	8,696	8,467	11,886	10,783
U. Wyoming	151	8,749	9,277	13,913	14,659	6,420	7,591	11,223	13,246
San Diego State U.	152	14,921	14,575	12,720	14,602	6,961	7,307	5,833	6,374
Meharry Medical C.	153	16,782	16,980	18,286	13,870	15,613	14,515	16,443	12,573
Rush U.	154	13,966	14,016	18,302	13,822	12,924	13,484	17,357	12,252
Rosalind Franklin U. of Medicine and Science	155	15,386	14,266	14,625	12,825	8,379	8,626	8,135	7,651
U. Nevada, Las Vegas	156	2,597	7,898	10,027	12,763	1,758	5,314	6,140	8,177
Texas Tech U.	157	12,609	12,545	14,796	12,709	1,919	1,556	2,663	1,723
Rutgers, State U. New Jersey, Newark	158	12,005	9,541	10,800	12,676	8,700	6,846	5,847	7,681
U. Houston	159	11,012	10,112	12,863	12,625	4,524	5,297	8,037	7,235
U. Alaska, Fairbanks	160	11,550	6,607	7,064	12,603	8,263	4,621	4,540	10,426
Carnegie Mellon U.	161	9,979	9,426	12,103	12,566	5,412	5,181	7,540	8,344
San Francisco State U.	162	10,859	10,879	12,038	12,512	7,552	7,807	8,627	8,988
U. New Hampshire	163	6,263	12,196	12,981	11,697	3,208	8,653	8,470	7,420
U. Maine	164	9,747	9,760	10,759	10,949	3,405	4,890	4,757	4,992
Mississippi State U.	165	6,643	5,958	6,814	10,917	3,982	3,269	3,890	5,110
U. North Texas, Denton	166	8,539	9,685	10,319	10,805	2,254	2,626	2,780	2,197
Louisiana State U., Health Sciences Center, Shreveport	167	7,891	9,928	11,230	10,644	5,483	7,706	9,918	9,794

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U. Colorado Denver and Anschutz Medical Campus	168	2,100	7,501	7,381	10,354	1,892	1,449	1,071	2,578
Eastern Virginia Medical School	169	6,490	6,470	8,746	9,968	4,586	4,271	6,015	6,821
New Mexico State U.	170	7,824	7,214	7,688	9,867	6,828	6,004	6,605	8,253
Loma Linda U.	171	8,480	8,832	9,447	9,744	7,923	8,235	8,819	9,105
Old Dominion U.	172	6,057	9,337	9,952	9,611	1,498	2,138	1,929	1,867
U. Nebraska, central administration	173	ne	5,070	6,872	9,514	ne	5,057	6,872	9,514
U. Maryland, Baltimore County	174	3,498	4,888	8,282	9,422	2,419	3,491	7,244	7,913
SUNY, C. of Environmental Science and Forestry	175	10,706	9,599	10,119	9,281	3,009	2,401	2,591	3,064
U. Southern Mississippi	176	7,222	7,978	7,545	8,948	4,664	5,998	6,035	6,633
Northeast Ohio Medical U.	177	6,719	7,606	8,481	8,678	4,842	5,675	6,336	7,209
CUNY, Hunter C.	178	9,019	6,073	7,166	8,550	5,269	3,209	3,720	5,050
U. Texas, Arlington	179	5,881	6,319	7,903	8,478	1,089	1,095	2,074	2,515
Boston C.	180	12,967	11,319	12,312	8,248	10,875	9,582	10,395	6,057
Boise State U.	181	7,170	7,428	7,701	8,089	4,940	4,908	4,907	5,371
Illinois Institute of Technology	182	7,736	7,583	8,645	8,046	7,078	6,932	8,004	7,375
Wright State U.	183	8,205	8,199	8,443	7,780	5,356	5,247	5,665	4,918
Ohio U.	184	8,720	8,008	6,676	7,691	2,102	1,615	2,113	2,603
Portland State U.	185	2,280	2,835	2,702	7,666	1,986	2,557	2,389	7,166
U. California, Merced	186	4,809	5,880	8,620	7,563	1,307	1,548	3,282	3,335
New York Medical C.	187	5,983	3,489	7,813	7,391	3,857	3,489	4,652	4,316
Texas State U.	188	5,261	7,920	6,761	7,213	973	1,191	1,230	1,103
Syracuse U.	189	6,850	6,507	7,738	7,080	3,815	3,188	3,545	3,734
Indiana U.-Purdue U., Indianapolis	190	5,364	5,183	5,449	7,034	2,690	3,634	4,190	5,851
North Carolina Central U.	191	5,721	6,916	7,314	6,873	4,774	6,581	7,084	6,362
Delaware State U.	192	3,438	4,525	6,582	6,838	2,215	3,013	4,555	4,746
Midwestern U.	193	5,565	6,344	6,387	6,539	908	1,016	548	448
Texas A&M U.-Corpus Christi	194	2,400	4,278	5,218	6,377	1,558	3,439	4,676	4,191
U. Texas, Dallas	194	4,517	6,117	3,900	6,377	2,016	2,236	2,314	3,035
U. Arkansas, Fayetteville	196	5,819	5,833	6,498	6,357	1,776	1,967	2,770	2,880

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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
Kent State U.	197	3,448	3,815	5,919	6,330	1,173	1,597	2,895	2,624
Rensselaer Polytechnic Institute	198	5,448	5,431	5,384	6,102	2,812	2,903	3,609	4,483
Clark Atlanta U.	199	5,536	5,799	6,360	6,017	3,881	3,774	3,859	3,468
Creighton U.	200	7,070	5,948	7,033	5,976	2,514	1,811	2,648	2,430
East Tennessee State U.	201	4,032	5,091	7,316	5,949	3,902	3,735	5,555	4,219
Marquette U.	202	5,781	6,753	7,863	5,871	4,051	4,501	5,003	3,443
Western Michigan U. and Homer Stryker M.D. School of Medicine	203	4,592	4,405	4,532	5,859	1,299	1,972	1,962	2,015
Miami U.	204	4,484	5,152	6,078	5,852	3,386	4,055	4,578	3,760
U. Missouri, Kansas City	205	5,678	5,819	5,054	5,780	4,527	2,906	3,044	3,943
U. Toledo	206	5,344	5,554	5,834	5,710	4,118	3,147	2,867	2,730
Brigham Young U., Provo	207	5,910	6,548	5,135	5,643	3,156	2,545	2,742	3,131
U. Massachusetts, Lowell	208	3,420	4,533	5,331	5,523	2,378	2,862	2,953	3,156
U. Delaware	209	3,952	3,928	4,551	5,344	2,505	2,689	3,234	4,094
Howard U.	210	3,701	4,231	5,089	5,312	1,735	1,601	2,174	1,798
North Dakota State U.	211	3,207	3,262	3,364	5,106	1,148	1,349	1,854	2,235
Southern Illinois U., Carbondale	212	6,467	5,952	4,686	4,876	2,649	2,334	2,197	2,290
U. North Carolina, Wilmington	213	4,148	4,414	5,604	4,791	1,712	1,386	2,656	2,330
Kennesaw State U.	214	3,555	1,646	2,101	4,759	528	698	653	618
U. Memphis	215	4,104	5,330	5,032	4,754	1,858	3,407	2,960	2,339
Arkansas State U., Jonesboro	216	3,676	4,699	4,648	4,707	1,546	2,346	2,109	2,185
U. Alaska, Anchorage	217	4,960	3,713	4,874	4,665	3,465	3,015	3,907	3,606
Utah State U.	218	4,886	4,616	5,064	4,657	1,799	1,984	2,335	1,868
U. Massachusetts, Boston	219	3,242	3,996	5,118	4,610	2,328	2,908	3,211	2,827
SUNY, Binghamton U.	220	6,245	4,482	4,529	4,595	862	1,258	910	954
U. Denver	221	2,711	3,682	4,137	4,591	1,227	1,946	2,284	2,441
Baylor U.	222	3,037	2,622	2,938	4,523	530	832	867	1,930
Chapman U.	223	938	2,880	4,414	4,374	600	1,081	2,504	2,519
U. North Carolina, Greensboro	224	2,745	2,972	4,561	4,352	1,874	2,038	3,347	3,013
U. Wisconsin-Milwaukee	225	1,609	2,281	2,772	4,150	1,090	1,347	1,832	2,489

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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. Texas Rio Grande Valley	226	3,071	2,458	4,472	4,093	2,606	2,036	2,684	2,225
Lehigh U.	227	2,335	2,814	4,448	4,073	1,269	2,152	3,846	3,834
U. Detroit Mercy	228	2,229	4,317	4,729	4,019	2,185	4,275	4,682	3,984
Western U. of Health Sciences	229	4,125	2,662	2,921	4,010	2,501	1,815	2,102	3,585
California State U., Northridge	230	2,390	3,374	3,232	3,875	1,582	2,097	2,346	2,980
Central Michigan U.	231	3,498	4,227	4,997	3,874	2,661	3,211	3,754	3,071
Marshall U.	232	3,978	4,690	4,753	3,800	2,449	1,827	2,263	1,964
U. New England	233	3,636	3,453	3,909	3,742	2,823	2,822	2,818	2,927
CUNY, Advanced Science Research Center	234	659	1,709	3,130	3,733	488	1,231	2,749	3,304
South Dakota State U.	235	3,063	3,683	3,648	3,689	1,107	1,723	1,901	1,813
Duquesne U.	236	2,959	4,142	3,645	3,648	828	1,420	1,176	1,178
U. Alabama, Tuscaloosa	237	3,406	3,790	3,536	3,602	1,481	1,930	1,911	2,119
U. Puerto Rico, Rio Piedras	238	3,499	2,396	3,657	3,590	1,872	1,296	2,897	2,884
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	239	2,973	3,379	3,624	3,587	162	177	148	297
Desert Research Institute	240	2,432	3,232	2,993	3,539	208	246	188	43
Wake Forest U.	241	2,057	2,369	3,042	3,538	1,830	2,123	1,856	2,459
Fisk U.	242	810	1,889	4,520	3,427	810	1,889	4,473	3,427
Oakland U.	243	1,511	1,369	3,678	3,323	1,109	979	1,598	1,664
Rowan U.	244	1,960	3,017	4,311	3,264	1,879	2,428	3,160	2,705
Wichita State U.	245	1,322	1,912	2,793	2,959	622	1,564	2,435	2,623
Morgan State U.	246	2,900	2,680	3,643	2,906	2,900	2,624	3,552	2,890
East Carolina U.	247	7,088	5,632	3,075	2,842	4,744	3,914	1,419	1,150
U. Arkansas, Little Rock	248	1,761	1,542	2,380	2,833	1,558	1,262	1,619	2,143
Des Moines U.	249	1,098	1,056	1,377	2,809	682	691	647	4
CUNY, City C.	250	6,150	5,059	3,655	2,752	5,403	4,484	2,864	2,012
Albany C. of Pharmacy and Health Sciences	251	2,393	1,296	3,033	2,732	508	692	1,476	1,111
Texas Southern U.	252	2,104	1,883	2,695	2,673	2,015	1,704	1,851	1,804
U. North Carolina, Charlotte	253	1,902	2,296	3,110	2,608	1,758	1,614	1,992	1,676
Touro U.	254	2,255	2,228	2,557	2,514	329	405	581	521
Idaho State U.	255	2,070	2,140	2,198	2,459	1,238	1,091	1,272	1,666

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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
Murray State U.	256	1,943	2,345	3,048	2,399	961	1,317	2,149	1,496
Michigan Technological U.	257	2,912	2,487	2,654	2,392	1,471	1,084	1,085	901
U. California, San Francisco	258	16,654	1,247	2,267	2,358	9,497	357	750	681
Texas Tech U., Health Sciences Center, El Paso	259	3,977	3,529	2,793	2,280	954	1,078	841	486
Tuskegee U.	260	186 i	151	2,230	2,274	151	151	1,719	1,753
U. Nebraska, Omaha	261	1,170	948	1,165	2,254	696	609	1,020	2,192
William & Mary	262	1,941	2,113	1,997	2,241	1,373	1,329	1,219	1,205
New Jersey Institute of Technology	263	2,671	2,500	3,051	2,209	834	936	1,384	1,109
Southern Methodist U.	264	1,094	1,305	1,533	2,144	857	979	1,283	1,061
Villanova U.	265	2,066	1,301	1,780	2,133	816	435	338	333
California State U., Long Beach	266	1,535	2,714	2,389	2,110	946	2,242	2,109	1,849
Worcester Polytechnic Institute	267	1,873	2,049	1,791	2,104	932	1,257	1,087	954
U. Alabama, Huntsville	268	1,107	1,712	1,928	2,046	282	561	675	583
Illinois State U.	269	1,853	2,158	2,992	2,008	1,547	1,672	2,500	1,692
California State U., Monterey Bay	270	2,121	2,115	2,116	2,006	2,082	2,042	1,993	1,859
U. Maryland Center for Environmental Science	271	1,328	2,182	2,402	1,978	1,116	1,706	1,702	1,261
SUNY, Polytechnic Institute	272	3,218	2,260	1,995	1,977	2,675	1,840	1,406	1,297
California State U., Los Angeles	273	721	1,394	2,424 i	1,949	709	1,394	1,715	1,512
California State Polytechnic U., Pomona	274	1,501	1,949	1,602	1,818	792	1,009	992	1,365
CUNY, Brooklyn C.	275	1,320	1,288	1,727 i	1,792	1,063	1,202	1,308 i	1,363
Alabama State U.	276	2,253	2,314	1,860	1,747	2,253	2,314	1,860	1,747
U. Akron	277	1,175	1,623	1,915	1,699	286	527	793	694
U. West Florida	278	2,066	1,790	1,337	1,690	241	209	218	409
Colorado State U., Pueblo	279	ne	ne	1,223	1,676	ne	ne	1,220	1,081
Smith C.	280	2,016	2,548	2,338	1,657	1,298	1,270	1,017	867
Langston U.	281	1,447 i	1,355 i	1,264	1,650	1,290 i	1,158 i	1,026	1,650

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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
North Carolina Agricultural and Technical State U.	282	969	1,131	1,085	1,612	788	1,025	1,048	1,455
Reed C.	283	803	1,754	1,588	1,573	354	895	1,031	1,180
U. Missouri, Saint Louis	284	2,402	1,873	1,667	1,567	1,227	1,535	1,214	1,025
U. of the Virgin Islands	285	0	0	0	1,554	0	0	0	1,554
Colorado School of Mines	286	2,966	2,185	1,948	1,549	2,331	1,662	1,423	1,513
U. Hawaii, Hilo	287	1,597	1,539	1,754	1,548	1,237	1,125	1,437	1,145
San Jose State U.	288	1,036	1,014	1,130	1,542	595	821	1,002	1,268
Tennessee State U.	289	909	1,179	1,133	1,535	787	1,065	934	1,376
Uniformed Services U. of the Health Sciences	290	4,968	1,724	1,512	1,525	3,028	1,002	916	902
Alabama A&M U.	291	3,750 i	2,989 i	2,231 i	1,521 i	2,958 i	2,287 i	1,618 i	1,104 i
Wellesley C.	292	862	1,099	1,330	1,454	852	1,032	1,021	1,326
California State U., San Marcos	293	2,334	2,021	1,439	1,451	2,241	1,332	639	642
Fordham U.	294	2,353	2,382	1,819	1,435	1,285	996	995	883
MGH Institute of Health Professions	295	763	1,212	1,537	1,427	763	1,212	1,537	1,427
Montclair State U.	296	427	717	1,152	1,422	364	654	810	948
Ball State U.	297	1,164	1,279	1,569	1,412	519	638	666	689
California State U., Fullerton	298	1,281	1,415	1,799	1,395	1,042	1,104	1,519	1,262
U. Massachusetts, Dartmouth	299	2,074	2,181	1,956	1,390	844	903	621	253
Texas A&M U.-Kingsville	300	1,144	1,297	1,115	1,386	872	993	898	1,120
Sam Houston State U.	301	651	1,198	1,994	1,382	225	177	250	379
Middle Tennessee State U.	302	1,579	1,033	1,005	1,359	875	555	610	599
Eastern Michigan U.	303	639	877	1,065	1,350	135	261	504	763
Catholic U. of America	304	1,692	1,614	1,633	1,333	1,655	1,614	1,633	1,228
Western Kentucky U.	305	2,084	1,841	1,530	1,307	1,261	923	893	706
Humboldt State U.	306	1,592	2,273	1,059	1,302	246	291	174	552
CUNY, Queens C.	307	420	954	1,052	1,250	316	765	831	1,054

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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
Rochester Institute of Technology	308	561	871	903	1,238	418	590	594	668
American U.	309	1,617	1,168	1,225	1,235	615	359	505	476
Bowdoin C.	310	1,110	1,216	1,206	1,196	948	954	940	869
Naval Postgraduate School	311	330	1,244	1,800	1,185	330	1,244	1,800	1,185
South Carolina State U.	312	317	436	1,133	1,175	317	331	1,133	1,175
Tennessee Technological U.	313	326	257	972	1,167	135	110	702	870
Bates C.	314	733	592	792	1,166	521	506	719	1,095
California State U., Stanislaus	315	1,027	958	836	1,163	289	400	449	752
Clark U.	316	706	1,107	1,288	1,134	397	576	827	705
Indiana U. Pennsylvania	317	888	335	1,345	1,107	656	31	869	667
Dillard U.	318	283	486	1,270	1,099	246	270	414	500
James Madison U.	318	690	957	771	1,099	562	503	629	533
U. Minnesota, Duluth	320	1,104	1,211	1,182	1,090	197	313	426	592
Xavier U. Louisiana	321	803	453	765	1,070	678	340	710	987
U. Puerto Rico, Mayaguez	322	1,502	1,235	1,225	1,067	817	703	939	918
Amherst C.	323	580	667	1,419	1,064	239	408	606	608
Southern Illinois U., Edwardsville	324	92	34	208	1,047	22	7	123	271
Jackson State U.	325	1,332	1,270	1,021	1,045	946	958	831	804
California Polytechnic State U., San Luis Obispo	326	703	936	1,227	1,009	380	452	658	609
St. John's U., New York	327	1,117	1,044	837	998	806	790	745	819
U. New Orleans	328	758	626	817	974	336	200	108	148
Missouri U. of Science and Technology	329	596	956	921	970	178	152	143	130
U. South Carolina, Aiken	330	780	510	0	962	780	497	0	870
Keene State C.	331	164	ne	542	956	162	ne	542	955
Philadelphia C. of Osteopathic Medicine	332	660	616	794	945	260	260	346	422
SUNY, Buffalo State	333	486	564	645	929	137	207	188	176
Haverford C.	334	812	746	582	926	273	292	133	109
Bowling Green State U.	335	774	813	696	909	97	159	330	376
Wesleyan U.	335	2,142	1,744	1,810	909	966	682	954	382

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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
Trinity C., Hartford	337	477	387	777	908	412	209	745	861
U. North Florida	338	637	882	741	907	309	390	307	310
Clarkson U.	339	776	894	765	902	561	592	417	442
U. Northern Colorado	340	831	857	999	896	359	334	377	389
C. Charleston	341	1,403	762	1,009	882	1,232	615	661	561
West Virginia State U.	342	1,167	1,474	1,562	872	1,087	1,343	1,446	748
U. of the Sciences Philadelphia	343	868	783	764	859	255	387	502	554
Clafin U.	344	410	242	350	857	410	242	350	854
Gallaudet U.	345	2,079	1,463	818	853	118	102	0	0
Western Illinois U.	346	818	1,068	1,195	852	602	833	969	653
U. Tennessee, Chattanooga	347	465	688	749	843	279	429	564	552
Swarthmore C.	348	691	648	755	841	342	379	468	439
Appalachian State U.	349	1,244	1,125	1,339	840	508	430	387	345
St. Edward's U.	350	750	641	1,010	825	620	550	1,000	800
Southeastern Louisiana U.	351	587	378	689	793	326	213	304	337
Black Hills State U.	352	602	504	818	783	368	418	462	658
Hampton U.	352	674	886	794	783	674	886	794	783
U. Nebraska, Kearney	354	1,080	858	842	775	491	485	469	405
Oregon Institute of Technology	355	0 i	0 i	845 i	765 i	0 i	0	0 i	0
U. Richmond	355	691	823	937	765	482	599	708	648
Louisiana Tech U.	357	682	732	750	753	330	275	180	232
Saint Joseph's U.	358	365	376	434	726	51	103	116	460
Western Washington U.	359	732	502	718	721	500	270	249	243
U. Colorado Colorado Springs	360	466	619	510	716	454	532	441	651
Montana Technological U.	361	670	907	1,006	708	316	483	478	339
California State U., Channel Islands	362	746	756	779	707	0	0	0	0
Indiana State U.	363	522	526	709	690	231	346	450	327
CUNY, Graduate School of Public Health and Health Policy	364	na	0	413	688	na	0	413	688
Winston-Salem State U.	365	648	579	449	684	648	579	449	677

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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
California State U., Sacramento	366	684	658	682	682	2	1	17	125
Saint Michael's C.	367	1,168	1,066	754	671	1,036	1,000	698	622
Florida Institute of Technology	368	1,564	1,360	1,384	667	1,238	878	965	423
Grand Valley State U.	368	324	333	542	667	252	216	318	262
U. Wisconsin-La Crosse	368	962	1,012	703	667	821	752	475	402
Lewis and Clark C.	371	635	571	584	651	286	459	526	538
Missouri State U.	371	431	425	442	651	165	117	185	475
C. New Jersey	373	353	362	ne	649	339	352	ne	328
Keck Graduate Institute	374	1,537 i	560 i	631 i	648 i	969 i	301 i	337 i	348 i
U. Ana G. Mendez, Gurabo	374	595	311	337	648	419	249	309	446
Christopher Newport U.	376	256	428	584	644	13	101	132	160
U. of the Pacific	377	351	787	803	641	251	683	674	326
Bryn Mawr C.	378	1,105	1,018	781	640	382	298	212	100
Hope C.	379	428	698	477	629	294	408	407	282
West Virginia School of Osteopathic Medicine	379	ne	ne	ne	629	ne	ne	ne	52
Barnard C.	381	378	500	602	625	258	235	309	432
Long Island U.	382	150	107	25	621	76	5	16	58
Eastern Kentucky U.	383	628	671	774	609	482	496	473	334
Spelman C.	384	588	554	478	604	588	554	478	604
Doane U.	385	ne	652	585	601 i	ne	516	498	514 i
U. Puerto Rico, Cayey	385	9	0	404 i	601	0	0	0	237
Pepperdine U.	387	296	299	329	597	193	279	303	121
Hawaii Pacific U.	388	449	637	560	594	357	523	459	570
Williams C.	389	500	449	610	582 i	365	312	413	396 i
Bucknell U.	390	998 i	1,069	608	578 i	317 i	305	245	235 i
Santa Clara U.	391	204	128	252	576	204	128	252	463
Franklin and Marshall C.	392	962	709	745	572	688	565	593	502
Texas Woman's U.	393	757	431	636	562	257	91	325	430
CUNY, C. Staten Island	394	271	306 i	295	554	130	145 i	177	377
Mercyhurst U.	395	0 i	ne	532 i	546 i	0 i	ne	215 i	222 i
U. Texas, Tyler	396	192	561	470	541	67	327	261	259
Rhode Island C.	397	488	437	528	540	462	425	510	504
California State U., San Bernardino	398	1,089	1,312	1,549	539	369	590	603	89

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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
Kenyon C.	399	ne	574	569	534	ne	501	484	520
Towson U.	400	562	401	626	531	326	308	414	361
Harvey Mudd C.	401	279	298	457	520	162	178	323	444
U. of St. Thomas (MN)	402	239	375	471	514	47	174	196	242
William Paterson U.	403	124	545	442	512	15	23	32	81
Middlebury C.	404	600	644	317	506	598	600	296	374
Tougaloo C.	405	365	0	274	503	365	0	274	503
U. Tulsa	406	648	645	785	500	357	349	357	267
Trinity U.	407	469	429	452	499	100	107	95	296
CUNY, New York City C. of Technology	408	ne	609	631	496	ne	458	487	394
U. North Carolina, Asheville	409	213	497	505	493	79	61	75	73
Grinnell C.	410	758	990	363	487	339	221	41	29
CUNY, York C.	411	ne	ne	359	485	ne	ne	340	450
Purdue U., Fort Wayne	412	680	861	665	483	96	164	122	117
CUNY, Medgar Evers C.	413	928	898	876	482	647	619	588	309
Calvin U.	414	354	470	503	481	301	426	449	431
Colgate U.	415	709	737	726	478	363	293	246	84
Fort Hays State U.	415	ne	ne	370	478	ne	ne	321	388
West Chester U. Pennsylvania	417	462	430	659	459	378	193	414	337
Northern Kentucky U.	418	587	253	450	458	364	130	282	257
Oklahoma State U., Center for Health Sciences	419	198	0	425	452	11	0	3	0
California State U., Fresno	420	1,086	1,517	614	449	1,055	1,265	596	362
California State U., East Bay	421	ne	ne	ne	439	ne	ne	ne	58
Northern Illinois U.	422	423	766	695	436	273	477	390	176
Elizabeth City State U.	423	7	1	ne	435	0	1	ne	428
Pace U.	424	290	372	532	431	148	184	476	386
Northern Michigan U.	425	107	482	364	430	58	89	34	30
Central Washington U.	426	623	580	517	428	287	254	206	179
Whitman C.	427	ne	ne	464	427	ne	ne	338	302
Providence C.	428	572	606	589	422	503	543	469	347
U.S. Military Academy	429	461	520	430	421	461	520	430	295
Bowie State U.	430	164	75	122	414	164	75	122	414

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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. Louisiana, Monroe	431	438	300	326	410	406	288	305	409
Fayetteville State U.	432	0	416	328	408	0	416	328	408
Loyola Marymount U.	433	664	162	488	407	254	22	272	233
U. Central Arkansas	434	403	378	412	398	244	153	205	242
Claremont McKenna C.	435	389	364	337	396	389	364	337	396
U. South Florida, Saint Petersburg	436	418	466	426	386	10	17	5	6
Prairie View A&M U.	437	212	209	193	379	145	203	185	369
Eastern Connecticut State U.	438	45	76	300	376	8	17	169	177
U. Alaska, Southeast	439	241	372	368	374	209	372	368	369
Salisbury U.	440	274	178	396	366	39	0	4	32
Mount Holyoke C.	441	822	71	142	359	800	20	87	333
Southern Connecticut State U.	442	139	210	98	357	54	0	0	17
U. Puget Sound	442	464	ne	ne	357	303	ne	ne	223
St. Cloud State U.	444	1,106	1,031	833	349	529	312	386	126
U. Wisconsin-Oshkosh	445	285 i	301 i	327 i	340 i	224 i	234 i	258 i	269 i
Pomona C.	446	548	282	296	338	168	95	81	180
Hofstra U.	447	273	334	412	337	235	300	360	308
Furman U.	448	302	414	254	335	238	297	236	309
U. Texas of the Permian Basin	449	0	0	ne	328	0	0	ne	328
U. of the Incarnate Word	450	ne	32	197	327	ne	0	56	14
Davidson C.	451	496	414	507	322	385	240	272	200
Biola U.	452	276 i	287 i	308 i	319 i	155 i	163 i	177 i	183 i
Texas Christian U.	453	199	58	215	311	43	0	0	57
U. Wisconsin-Green Bay	454	218 i	250 i	315 i	306 i	151 i	105 i	151 i	164 i
Colby C.	455	571	651	639	304	476	538	538	243
U. Central Oklahoma	456	206	314	303	303 i	175	270	231	229 i
SUNY, C. Brockport	457	294	302	263	299	245	278	193	291
Southern U. and A&M C., Agricultural Research and Extension Center	458	0 i	0	489	298	0 i	0	0	0

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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
Macalester C.	459	378	290	343	297	210	79	108	121
DePaul U.	460	370	470	332	296	137	231	267	264
U. Guam	461	144	307	208	291	78	259	196	205
Oberlin C.	462	205	403	949	285	197	265	815	252
New York Institute of Technology	463	271	179	294	283	56	60	294	283
SUNY, Oswego	464	283	383	354	281	194	220	218	190
Western Carolina U.	465	278	296	358	279	88	49	91	66
Occidental C.	466	1,089	116	560	278	406	70	478	199
Connecticut C.	467	951	663	348	275	333	192	95	48
U. Maryland, Eastern Shore	468	106	0	0	269	106	0	0	269
Lipscomb U.	469	ne	ne	ne	264	ne	ne	ne	150
New Mexico Institute of Mining and Technology	470	56	226	395	260	56	226	387	255
U. Ana G. Mendez, Carolina	471	1,116	630	ne	258	782	391	ne	206
California Lutheran U.	472	ne	ne	206	257	ne	ne	107	144
Gettysburg C.	472	47	207	428	257	0	51	60	13
Carleton C.	474	140	339	532	256	11	42	108	82
CUNY, Lehman C.	475	680	384	0	255	554	320	0	136
CUNY, Baruch C.	476	202	324	357	250	148	242	264	117
Northeastern Illinois U.	477	380	399	328	249	380	399	328	249
Tarleton State U.	477	226	50	9	249	0	0	0	15
Liberty U.	479	ne	ne	861	247	ne	ne	385	44
C. Wooster	480	345	375	483	242	150	168	84	76
Mercer U.	481	0	233	239	235	0	0	0	0
Fort Lewis C.	482	ne	ne	289	231	ne	ne	241	187
Fairfield U.	483	673	136	78	230	190	136	78	191
U. Puerto Rico, Humacao	484	ne	233	284	229	ne	233	284	229
Lincoln U., Jefferson City	485	252	253	252	227	252	253	252	227
Rutgers, State U. New Jersey, Camden	486	0	0	25	225	0	0	0	0
California State U., Bakersfield	487	606	426	295	223	447	396	92	70
U. Dayton	488	220	202	168	217	205	167	145	205
U. Wisconsin-Stevens Point	489	179	190	202	214	1	1	2	2
Morehead State U.	490	354	259	682	211	222	183	601	211

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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
National Defense U.	491	0	0	0	200	0	0	0	200
Sonoma State U.	492	ne	ne	ne	197	ne	ne	ne	161
Vassar C.	492	300	60	34	197	300	60	13	16
U. Southern Maine	494	206	276	143	195	95	122	16	60
Eastern Washington U.	495	573	67	66	186	526	0	0	155
California State U., Chico	496	204	229	310	184	204	216	282	170
Pittsburg State U.	497	98	171	243	178	84	141	236	178
Roger Williams U.	498	162	160	246	177	78	143	178	166
Troy U.	499	ne	ne	ne	176	ne	ne	ne	157
New Mexico Highlands U.	500	0	150	ne	171	0	0	ne	115
Willamette U.	501	627	753	278	169	460	368	143	35
Pacific U.	502	431	165	259	160	153	5	15	25
Seattle U.	503	347	288	248	156	92	82	116	86
Texas A&M U.-Commerce	504	1,307	868	265	144	138	66	0	8
Albany State U.	505	622	254	253	143	622	254	253	143
Elon U.	506	113	69	79	140	46	0	0	0
Ithaca C.	507	ne	ne	ne	138	ne	ne	ne	132
Seton Hall U.	507	850	724	810	138	850	724	810	138
U. of Mary Washington	509	ne	12	100	132	ne	7	64	85
Central Connecticut State U.	510	64	ne	112	131	0	ne	31	73
Northwestern State U. Louisiana	510	16	16	50	131	0	0	0	0
SUNY, Geneseo	510	135	194	233	131	37	80	150	58
Fort Valley State U.	513	295	249	185	129	246	208	162	121
Southern U. and A&M C., Baton Rouge	514	154	168	210	128	66	168	183	128
Azusa Pacific U.	515	205	173	259	126	0	0	0	0
Midwestern State U.	515	ne	ne	ne	126	ne	ne	ne	99
Colorado C.	517	225	147	117	121	74	19	12	20
U. Michigan, Dearborn	517	83	204	152	121	37	174	69	112
Morehouse C.	519	113	80	98	120	113	80	98	120
C. of Saint Benedict	520	96	124	122	116	0	0	0	0
CUNY, Graduate Center	520	79	59	51	116	46	34	46	87

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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	522	98	98	131	115	0	0	0	0
Norfolk State U.	523	114	53	108	114	114	53	108	114
U. Wisconsin-Platteville	524	139	ne	109	111	38	ne	41	41
California State U., Dominguez Hills	525	108	341	213	110	85	236	162	81
Stockton U.	526	ne	138	78	105	ne	138	50	39
Saint John's U., Collegeville	527	86	112	109	104	0	0	0	0
U. Northern Iowa	527	117	57	63	104	83	48	44	35
St. Bonaventure U.	529	ne	ne	ne	102	ne	ne	ne	102
La Sierra U.	530	96	64	132	101	23	43	32	4
Winthrop U.	531	368	384	254	100	281	235	100	64
U. Wisconsin-River Falls	532	65	120	ne	99	50	95	ne	46
Coastal Carolina U.	533	206	278	305	98	198	277	268	98
U. San Diego	534	227	200	106	92	25	22	22	31
St. Olaf C.	535	306	280	128	90	154	97	0	0
Lafayette C.	536	8	57	82	87	0	50	80	50
U. South Alabama	536	230	413	403	87	93	225	211	41
Monmouth U.	538	ne	ne	56	85	ne	ne	0	0
Skidmore C.	538	230	225	150	85	170	145	122	69
CUNY, system office	540	0	43	30	84	0	0	3	84
Pennsylvania State U., Harrisburg	541	15	33	36	82	2	19	20	76
Hamilton C.	542	154	251	180	81	0	12	51	26
U. Wisconsin-Eau Claire	543	46	101	86	80	39	30	35	30
Hobart and William Smith Colleges	544	136	ne	150	79	100	ne	82	39
Bradley U.	545	93	103	89	78	55	53	36	20
Albion C.	546	131	125	98	76	0	0	0	0
Niagara U.	546	110	89	94	76	0	0	0	0
Citadel Military C. South Carolina	548	ne	ne	ne	75	ne	ne	ne	49
U. Arkansas, Pine Bluff	549	170	112	174	74	128	87	136	58
Youngstown State U.	549	54	6	69	74	0	0	0	0
Dickinson C.	551	219	ne	12	70	145	ne	2	29
Florida A&M U.	552	123	172	153	67	56	88	97	61

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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 Jersey City U.	553	394	805	675	65	394	805	665	57
U. San Francisco	553	281	160	88	65	152	24	19	0
Kean U.	555	ne	ne	ne	63	ne	ne	ne	0
Minnesota State U., Mankato	555	134	138	187	63	52	78	136	0
Saginaw Valley State U.	557	47	63	63	62	0	0	0	0
Austin Peay State U.	558	433	465	705	60	0	0	35	49
Central State U.	559	0	8	46	59	0	8	46	59
U. Minnesota, Morris	559	72	ne	40	59	56	ne	0	0
Stephen F. Austin State U.	561	238	100	75	57	22	0	0	0
Manhattan C.	562	ne	ne	82	56	ne	ne	0	0
Lamar U.	563	55	132	122	55	0	38	0	27
Weber State U.	564	ne	ne	ne	54	ne	ne	ne	28
Kettering U.	565	32	19	26	53	0	19	21	4
CUNY, John Jay C. of Criminal Justice	566	216	489	132	49	203	446	113	39
Dakota State U.	567	0	10	0	48	0	0	0	48
U. Houston-Downtown	568	135	71	37	46	0	0	0	0
Union C., Schenectady	569	62	53	80	45	23	29	14	13
Jacksonville State U.	570	166	192	114	44	12	11	14	16
U. Houston-Clear Lake	570	233	211	52	44	180	179	9	20
Columbus State U.	572	ne	ne	ne	38	ne	ne	ne	18
U. New Haven	573	68	121	74	35	0	27	24	9
Florida Polytechnic U.	574	ne	ne	50	34	ne	ne	6	29
U. Michigan, Flint	575	32	100	41	32	3	1	0	0
Suffolk U.	576	35	ne	ne	29	5	ne	ne	29
Benedict C.	577	136	146	158	24	136	101	139	21
Virginia State U.	577	0	0	15	24	0	0	15	24
Wheaton C., Wheaton	579	102	35	5	23	60	0	0	0
Savannah State U.	580	306	543	183	22	306	543	183	22
Pennsylvania State U., Behrend	581	56	50	75	21	27	15	17	15
West Texas A&M U.	581	110	53	27	21	36	0	0	0
Purdue U., Northwest	583	65	53	52	18	2	28	39	5

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical 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. North Georgia	584	0	0	52	16	0	0	2	16
Texas A&M International U.	585	205	494	64	9	5	398	0	0
Georgia Southern U.	586	1,749	1,202	452	5	147	91	129	5
Andrews U.	587	ne	ne	10	3	ne	ne	0	0
Edward Via C. of Osteopathic Medicine	588	0	0	0	1	0	0	0	1
U. Illinois, Springfield	588	6	3	0	1	0	0	0	0
U. Washington, Tacoma	588	0	0	24	1	0	0	0	0
U. Wisconsin-Superior	588	ne	67	97	1	ne	67	97	1
All other surveyed institutions	-	161,096	160,493	8,418	0	100,485	104,897	5,659	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 \$32,463 thousand imputed for total and \$29,927 thousand reported for federally financed R&D expenditures in biological and biomedical 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.