

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
All institutions	-	23,864,977	25,436,404	26,232,263	28,452,956	1,099,585	10,001,728	16,138,445	429,905	783,293
Johns Hopkins U. ^a	1	667,885	706,853	714,341	765,565	0	269,831	495,734	0	0
U. Washington, Seattle	2	672,737	664,192	667,996	683,132	0	168,960	488,597	14,570	11,005
U. California, San Francisco	3	634,003	632,556	634,918	645,510	0	433	645,077	0	0
U. Pennsylvania	4	555,651	582,252	577,785	644,430	6	434,661	171,402	0	38,361
Duke U.	5	515,536	568,773	568,232	638,716	0	236,697	383,958	5,392	12,669
U. Pittsburgh, Pittsburgh	6	558,941	585,348	590,430	628,092	377	206,387	421,306	0	22
Columbia U. in the City of New York	7	488,041	539,940	562,474	611,343	0	186,401	422,968	1,448	526
Stanford U.	8	488,675	519,870	529,667	578,172	0	185,954	359,980	861	31,377
Yale U.	9	470,751	497,350	512,821	570,441	0	150,159	415,334	4,948	0
U. North Carolina, Chapel Hill	10	489,297	513,100	521,691	569,385	0	143,283	426,102	0	0
Icahn School of Medicine at Mount Sinai	11	398,656	443,745	480,452	554,582	0	235,660	318,922	0	0
U. Michigan, Ann Arbor	12	501,174	548,206	547,904	549,127	0	185,914	333,812	6,254	23,147
Washington U., Saint Louis	13	444,153	476,233	489,071	528,261	0	237,968	290,293	0	0
U. California, Los Angeles	14	392,520	417,741	459,909	523,747	0	21,562	502,185	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	15	382,263	391,543	413,212	484,119	0	121,941	361,743	13	422
Emory U.	16	367,597	393,978	419,593	478,989	0	161,290	307,719	0	9,980
U. California, San Diego	17	393,698	408,818	413,628	465,019	0	45,133	419,886	0	0
New York U.	18	318,869	335,764	353,092	446,533	0	177,500	267,032	0	2,001
Northwestern U.	19	339,676	370,062	393,156	426,804	0	115,175	302,805	0	8,824
Harvard U.	20	389,289	423,934	401,466	411,239	0	308,919	74,024	5,613	22,683
U. Minnesota, Twin Cities	21	290,484	312,158	334,529	388,235	24,629	75,180	274,027	11,115	3,284
Cornell U.	22	278,645	321,219	352,059	385,534	32,441	164,967	185,010	2,952	164
U. Wisconsin-Madison	23	330,313	366,311	373,989	385,530	40,355	159,456	185,553	102	64
U. Alabama, Birmingham	24	319,449	345,887	341,725	366,366	0	100,726	265,640	0	0
Baylor C. of Medicine	25	300,098	309,354	315,101	365,472	0	196,635	168,837	0	0
U. Maryland ^b	26	na	377,610	360,827	362,219	23,474	116,912	215,882	998	4,953
U. Colorado Anschutz Medical Campus ^c	27	na	na	na	361,493	299	4,008	357,186	0	0
Ohio State U.	28	270,596	289,023	321,704	350,221	31,002	65,420	245,788	4,590	3,421
U. Southern California	29	280,016	304,604	321,802	328,186	0	82,518	235,884	0	9,784
Oregon Health and Science U.	30	255,794	287,578	312,023	318,175	0	17,330	195,006	744	105,095
Case Western Reserve U.	31	304,739	314,870	316,948	294,556	0	71,246	206,937	0	16,373

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Boston U.	32	175,980	217,748	228,882	293,731	0	112,638	181,093	0	0
U. Cincinnati	33	225,026	228,266	263,035	282,277	0	34,328	239,842	0	8,107
U. Florida	34	247,852	261,847	265,894	281,503	52,672	66,696	156,907	5,228	0
U. California, Davis	35	277,842	287,847	293,608	279,849	32,317	120,744	126,788	0	0
Scripps Research Institute	36	267,088	267,122	243,502	272,181	0	272,181	0	0	0
Uniformed Services U. of the Health Sciences	37	211,620	289,658	229,498	262,204	0	5,079	257,125	0	0
U. Chicago	38	188,680	212,983	231,277	260,911	0	66,653	194,258	0	0
U. Texas Southwestern Medical Center	39	197,910	203,544	242,679	257,611	0	100,990	156,620	0	1
Rutgers, State U. New Jersey, New Brunswick	40	238,865	205,955	218,451	254,944	31,252	54,432	165,473	0	3,787
Indiana U., Bloomington	41	185,135	235,383	243,023	251,142	0	82,191	168,420	0	531
Texas A&M U., College Station and Health Science Center	42	112,702	127,756	275,643	250,689	42,991	55,631	139,429	9,155	3,483
U. Massachusetts, Medical School	43	194,953	197,388	192,938	248,873	0	100,459	62,856	0	85,558
U. Utah	44	213,459	164,525	202,404	218,204	0	28,068	186,207	17	3,912
Albert Einstein C. of Medicine	45	196,457	202,513	204,635	214,619	0	0	214,619	0	0
U. Iowa	46	186,334	192,564	202,824	212,393	0	80,979	130,852	0	562
U. Arizona	47	157,629	177,953	179,457	206,315	13,626	115,658	71,073	5,958	0
U. Texas M. D. Anderson Cancer Center	48	153,711	154,878	163,540	194,972	7,306	73,202	114,464	0	0
U. Virginia, Charlottesville	49	154,913	167,585	186,706	190,160	0	130,255	59,905	0	0
Colorado State U., Fort Collins	50	101,725	144,035	160,153	187,839	17,728	37,530	17,382	111,322	3,877
Wake Forest U.	51	151,899	163,236	164,482	186,487	0	2,321	184,166	0	0
U. Rochester	52	171,199	172,698	173,198	185,919	0	48,117	137,802	0	0
U. Illinois, Chicago	53	152,074	162,930	173,236	182,440	0	41,820	139,546	1,074	0
U. New Mexico	54	107,957	96,789	94,977	180,991	10	22,646	156,667	1,158	510
U. Miami	55	138,701	159,479	167,153	167,201	0	62,744	98,956	632	4,869
U. Kentucky	56	124,665	146,907	154,842	166,751	13,036	101,455	52,260	0	0
U. Texas Health Science Center, Houston	57	128,232	132,647	133,624	165,139	0	36,466	72,125	0	56,548
Medical U. South Carolina	58	142,639	153,226	153,802	162,394	0	51,796	48,670	0	61,928
U. California, Irvine	59	115,983	128,408	142,756	154,668	0	75,077	79,591	0	0
Pennsylvania State U., University Park and Hershey Medical Center	60	131,739	134,964	146,249	142,063	26,181	63,659	51,789	434	0
Michigan State U.	61	143,557	155,127	136,029	141,436	38,807	62,624	28,328	2,642	9,035

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Georgia	62	108,494	114,935	124,753	135,261	30,083	90,936	13,291	0	951
Medical C. Wisconsin	63	106,409	113,007	122,394	131,164	0	49,607	81,557	0	0
George Washington U.	64	117,015	114,065	117,325	122,600	0	39,381	83,219	0	0
U. Illinois, Urbana-Champaign	65	81,037	97,918	110,331	121,883	23,746	54,744	1,159	42,234	0
U. California, Berkeley	66	112,538	115,309	119,018	119,251	199	65,808	26,345	26,899	0
Temple U.	67	110,881	122,159	118,429	117,907	0	29,114	62,141	0	26,652
Virginia Commonwealth U.	68	100,472	101,127	108,867	117,761	0	47,612	60,154	0	9,995
U. Texas Medical Branch	69	103,263	107,395	113,827	117,490	0	85,905	31,585	0	0
Tufts U.	70	48,260	83,149	102,746	115,629	1,073	71,168	38,262	0	5,126
U. Kansas	71	94,896	102,440	113,305	115,370	0	30,741	83,587	1,042	0
SUNY, U. Buffalo	72	102,258	102,425	108,496	115,162	0	51,230	62,571	0	1,361
U. Nebraska, Medical Center	73	93,463	102,604	105,158	111,042	0	71,474	39,568	0	0
U. Missouri, Columbia	74	88,197	92,664	99,475	109,626	23,336	35,810	44,407	6,073	0
Thomas Jefferson U.	75	64,869	74,816	74,594	109,364	0	49,473	59,891	0	0
Georgetown U.	76	74,985	77,391	77,133	109,131	0	8,536	99,766	0	829
Brown U.	77	89,486	94,797	99,779	108,063	0	43,126	37,100	0	27,837
U. Texas Health Science Center, San Antonio	78	86,956	96,502	102,959	106,824	0	48,445	58,379	0	0
U. Connecticut	79	84,253	94,232	93,227	105,940	3,267	52,731	47,916	2,026	0
Washington State U.	80	78,651	86,617	84,222	101,065	37,176	23,178	36,732	2,264	1,715
U. South Florida ^d	81	103,580	105,807	89,644	98,950	0	64,801	33,784	272	93
Tulane U.	82	89,243	90,615	92,019	98,650	0	25,730	21,498	110	51,312
Dartmouth C. and Dartmouth Hitchcock Medical Center	83	100,337	94,317	94,419	98,639	0	53,355	44,449	543	292
Rockefeller U.	84	82,864	81,326	82,626	92,292	0	87,220	5,072	0	0
Wayne State U.	85	88,216	92,845	89,306	88,791	0	16,595	72,186	0	10
U. Vermont	86	70,687	74,193	81,752	87,438	12,330	35,980	37,336	1,792	0
U. Texas, Austin	87	71,862	70,469	70,386	84,849	22	44,438	36,365	1,230	2,794
Purdue U., West Lafayette	88	74,981	73,576	76,677	84,604	37,063	13,625	33,916	0	0
U. Arkansas for Medical Sciences	89	57,523	63,498	70,508	83,387	0	34,745	47,652	0	990
U. Oklahoma, Norman and Health Science Center	90	64,447	66,880	72,245	79,517	0	32,725	46,790	0	2
Oregon State U.	91	64,925	68,066	70,516	78,583	26,857	32,710	7,005	11,927	84
U. Louisville	92	67,365	71,330	71,342	77,090	0	44,936	29,156	18	2,980

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North Carolina State U.	93	68,297	70,069	68,962	75,648	23,589	47,017	0	0	5,042
Massachusetts Institute of Technology	94	80,693	80,200	76,829	75,204	0	37,649	16,015	0	21,540
SUNY, Stony Brook U.	95	62,230	63,440	66,263	72,683	0	40,518	32,165	0	0
Virginia Polytechnic Institute and State U.	96	62,829	67,390	64,084	72,611	21,982	18,558	21,979	9,772	320
Rush U.	97	61,445	66,527	63,438	70,912	0	10,059	60,853	0	0
California Institute of Technology	98	54,071	60,735	65,063	67,899	0	67,730	123	0	46
U. Hawaii, Manoa	99	65,897	66,036	62,548	62,074	6,687	19,052	28,587	1,093	6,655
Augusta U.	100	48,749	46,970	55,685	61,727	0	29,845	30,933	0	949
U. Mississippi	101	51,426	57,460	59,546	60,201	177	19,215	39,086	0	1,723
Drexel U.	102	47,522	51,968	49,999	58,129	0	26,987	30,650	492	0
Cold Spring Harbor Laboratory	103	67,139	73,854	62,068	56,889	2,207	54,682	0	0	0
Iowa State U.	104	54,201	54,905	60,272	56,344	21,142	17,834	6,315	0	11,053
Arizona State U.	105	64,121	47,334	51,775	56,184	0	40,918	15,101	164	1
U. Tennessee, Health Science Center	106	38,895	42,347	48,264	56,021	0	23,001	33,007	0	13
Princeton U.	107	47,385	55,044	53,867	54,327	0	52,315	0	2,012	0
U. South Carolina, Columbia	108	48,945	53,489	53,870	53,300	0	9,864	43,436	0	0
U. Montana, Missoula	109	39,026	40,114	45,895	51,926	183	14,945	26,382	10,416	0
West Virginia U.	110	35,726	39,527	41,367	51,717	5,139	16,135	24,940	4,225	1,278
Louisiana State U., Baton Rouge	111	44,434	47,731	45,823	51,067	18,185	29,672	234	2,976	0
U. Nebraska, Lincoln	112	46,984	48,939	48,702	48,519	24,698	14,327	6,214	3,280	0
U. California, Riverside	113	28,846	31,966	41,696	45,420	8,249	24,845	12,326	0	0
U. Nevada, Reno	114	30,829	31,278	33,564	43,804	3,561	25,242	11,439	2,560	1,002
U. Colorado Boulder	115	33,518	42,813	42,667	43,726	977	36,680	3,515	580	1,974
Mississippi State U.	116	31,543	35,061	37,520	42,435	30,757	2,552	734	5,937	2,455
Kansas State U.	117	47,740	46,819	43,367	40,991	29,741	10,615	635	0	0
SUNY, U. Albany	118	65,947	71,179	45,162	38,544	0	18,406	20,138	0	0
Cleveland State U.	119	44,887	38,942	40,809	38,233	0	37,018	1,215	0	0
U. Massachusetts, Amherst	120	34,641	36,775	36,163	37,266	10,740	16,284	6,288	3,663	291
Saint Louis U.	121	25,030	30,144	29,211	36,701	0	13,620	23,081	0	0
Montana State U., Bozeman	122	27,955	33,739	33,155	36,541	14,504	12,653	9,302	82	0
U. Idaho	123	27,029	30,467	33,427	35,296	10,658	19,286	29	5,289	34
Auburn U., Auburn	124	24,809	24,883	29,821	35,103	18,928	5,996	1,261	360	8,558

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Georgia State U.	125	34,958	33,247	35,718	34,512	200	26,909	7,260	0	143
Louisiana State U., Health Sciences Center, New Orleans	126	26,988	31,290	31,381	34,272	0	17,760	15,847	0	665
U. Puerto Rico, Medical Sciences Campus	127	30,597	34,541	26,897	32,997	0	0	32,997	0	0
U. Delaware	128	26,620	30,421	34,456	32,572	9,280	3,996	19,296	0	0
U. North Texas, Health Science Center	129	27,188	26,489	25,461	32,464	0	8,634	23,830	0	0
U. Tennessee, Knoxville ^e	130	10,634	11,210	30,983	32,204	10,090	13,709	4,309	4,096	0
Florida State U.	131	25,178	31,905	34,311	30,746	119	10,937	17,927	945	818
U. Oregon	132	26,484	29,759	29,342	29,640	0	28,980	297	363	0
U. New Hampshire	133	32,492	27,400	30,725	29,183	8,252	4,781	11,612	4,538	0
U. Wyoming	134	23,848	29,891	31,367	28,786	5,122	14,012	3,205	6,435	12
SUNY, Downstate Health Sciences U.	135	26,302	26,914	26,454	27,620	0	27,284	336	0	0
U. Louisiana, Lafayette	136	11,620	18,209	19,960	26,466	109	16,125	10,130	102	0
Northern Arizona U.	137	16,929	22,912	24,039	25,641	577	17,143	3,033	3,810	1,078
Morehouse School of Medicine	138	24,326	22,461	22,500	25,181	0	0	25,181	0	0
SUNY, Upstate Medical U.	139	20,391	22,028	23,940	24,974	0	12,320	12,654	0	0
Utah State U.	140	25,380	27,195	24,904	24,945	12,527	2,911	1,390	8,117	0
U. Alaska, Fairbanks	141	14,540	10,218	14,391	23,554	1,691	19,159	212	2,492	0
Loyola U., Chicago	142	19,379	20,625	21,189	23,288	0	12,636	10,324	328	0
Brandeis U.	143	19,117	19,823	21,616	22,656	0	16,190	6,466	0	0
North Dakota State U.	144	17,948	17,721	17,605	22,286	11,713	4,056	4,987	1,530	0
Van Andel Research Institute	145	14,285	18,259	18,538	22,231	0	22,231	0	0	0
New Mexico State U.	146	13,510	15,987	17,602	21,918	7,523	13,212	434	9	740
U. Rhode Island	147	17,752	18,557	21,040	21,298	2,105	15,150	2,771	0	1,272
Oklahoma State U., Stillwater	148	18,207	17,380	17,865	21,210	7,231	10,218	603	3,139	19
Clemson U.	149	17,577	18,084	21,908	20,765	6,629	7,601	2,070	0	4,465
Florida International U.	150	21,098	21,908	23,279	20,713	2	17,524	2,063	1,124	0
Florida A&M U.	151	15,164	18,275	18,174	19,995	7,686	29	9,150	205	2,925
Howard U.	152	18,013	16,333	15,752	19,875	0	2,527	16,300	0	1,048
U. Maine	153	17,333	18,122	19,256	19,690	8,506	5,112	0	6,072	0
U. Houston	154	14,971	18,470	18,438	19,471	99	8,294	10,820	244	14
Northeastern U.	155	18,944	18,983	20,238	18,436	0	11,399	4,148	0	2,889

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U. California, Santa Cruz	156	15,431	15,946	16,914	17,564	144	17,420	0	0	0
San Diego State U.	157	16,474	16,844	15,009	17,106	0	5,985	11,113	8	0
U. North Dakota	158	14,405	13,647	15,954	17,046	0	9,103	7,943	0	0
Ponce Health Sciences U.	159	6,386	8,339	11,228	16,996	0	0	16,996	0	0
U. Arkansas, Fayetteville	160	23,231	21,808	16,887	15,881	11,119	3,154	1,351	257	0
Tennessee State U.	161	6,778	6,743	14,785	15,633	i 9,263 i	2,396	i 644 i	i 23 i	i 3,307 i
U. Central Florida	162	11,036	11,466	12,485	15,068	0	10,666	4,402	0	0
Eastern Virginia Medical School	163	21,356	19,408	15,748	14,774	0	6,620	8,154	0	0
Meharry Medical C.	164	14,515	16,443	12,573	13,784	0	13,784	0	0	0
East Carolina U.	165	9,773	12,382	12,296	13,680	0	5,749	7,931	0	0
U. Toledo	166	11,602	13,213	12,830	13,665	0	3,292	10,253	0	120
U. Nevada, Las Vegas	167	13,165	12,545	14,582	13,583	199	7,772	4,992	110	510
U. Texas, Dallas	168	10,606	13,916	16,603	13,432	0	2,713	10,719	0	0
Albany Medical C.	169	10,243	11,827	12,940	13,166	0	12,700	466	0	0
U. South Alabama	170	10,329	12,364	12,175	13,027	0	133	12,509	0	385
U. Notre Dame	171	11,043	13,259	11,155	12,920	0	12,920	0	0	0
U. Texas, El Paso	172	12,056	12,223	10,414	12,399	0	10,380	1,958	61	0
U. Nebraska, central administration	173	8,817	11,875	12,521	12,391	823	9,259	2,309	0	0
Louisiana State U., Health Sciences Center, Shreveport	174	9,235	12,185	11,452	12,359	0	10,192	2,167	0	0
U. California, Santa Barbara	175	16,706	16,345	12,927	12,283	0	11,506	0	777	0
Texas Tech U., Health Sciences Center	176	7,477	11,262	12,977	12,114	0	8,118	3,996	0	0
U. Texas Health Science Center, Tyler	177	6,438	i 7,084 i	7,732	12,007	0	12,007	0	0	0
Indiana U.-Purdue U., Indianapolis	178	8,368	9,805	11,548	11,825	0	6,086	5,645	0	94
U. Texas, San Antonio	179	8,553	12,135	10,733	11,786	0	10,784	928	0	74
Georgia Institute of Technology	180	16,020	15,691	22,969	11,713	0	11,572	141	0	0
Portland State U.	181	10,857	12,530	11,523	11,566	15	8,523	1,009	1,987	32
U. Missouri, Kansas City	182	6,419	10,630	13,054	11,443	0	4,016	7,427	0	0
Florida Atlantic U.	183	7,668	9,452	11,087	11,315	0	6,611	4,374	0	330
CUNY, Graduate School of Public Health and Health Policy	184	3,757	3,933	7,444	11,244	0	492	10,700	0	52
South Dakota State U.	185	18,857	22,888	16,767	11,133	6,665	1,284	1,482	1,253	449

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
New York Medical C.	186	8,141	i 11,061	i 12,106	10,739	0	4,088	3,308	0	3,343
George Mason U.	187	11,332	9,658	8,803	10,609	129	5,399	4,519	562	0
Marshall U.	188	7,953	8,481	10,082	10,409	0	2,694	7,715	0	0
Northeast Ohio Medical U.	189	9,634	10,029	10,649	9,982	0	7,210	2,274	0	498
Charles R. Drew U. of Medicine and Science	190	10,198	10,427	9,863	9,945	0	0	9,945	0	0
Delaware State U.	191	6,946	8,139	8,311	i 9,554	1,615	6,867	351	721	0
North Carolina Agricultural and Technical State U.	192	7,924	7,118	6,945	9,455	4,736	1,186	989	2,544	0
Southern Illinois U., Carbondale	193	9,252	9,580	9,899	9,451	3,720	1,824	3,907	0	0
Loma Linda U.	194	12,987	i 11,804	i 10,619	i 9,436	0	5,341	4,095	0	0
Carnegie Mellon U.	195	7,061	9,677	9,523	9,072	256	8,160	407	0	249
Rosalind Franklin U. of Medicine and Science	196	9,203	8,765	8,421	9,041	0	7,942	948	0	151
Boise State U.	197	5,847	6,384	7,021	8,959	418	6,566	1,345	624	6
Rutgers, State U. New Jersey, Newark	198	6,954	5,847	7,681	8,709	0	7,225	1,484	0	0
CUNY, Queens C.	199	8,502	9,569	9,378	8,529	0	1,155	7,374	0	0
U. Guam	200	5,841	6,201	6,625	8,519	2,251	323	2,363	3,582	0
U. South Dakota	201	10,007	9,660	9,733	8,496	0	7,905	546	0	45
San Francisco State U.	202	7,900	8,950	7,959	i 8,039	0	7,566	42	204	227
East Tennessee State U.	203	5,827	7,011	6,785	8,010	0	6,103	1,907	0	0
New Jersey Institute of Technology	204	23,006	19,806	14,836	7,820	0	966	6,854	0	0
U. Texas, Arlington	205	2,409	5,586	7,558	7,783	0	2,923	4,860	0	0
Illinois Institute of Technology	206	9,514	10,066	8,605	7,769	366	6,735	662	0	6
U. Maryland, Baltimore County	207	3,491	9,297	8,644	7,736	370	7,243	4	0	119
U. Southern Mississippi	208	6,110	6,662	7,241	7,633	0	7,130	503	0	0
Rice U.	209	7,813	8,245	8,540	7,628	0	7,628	0	0	0
Wright State U.	210	9,512	9,735	8,029	7,544	0	4,572	2,968	0	4
Boston C.	211	10,440	11,274	7,119	7,427	0	6,232	1,195	0	0
U. Texas Rio Grande Valley	212	7,147	8,649	7,403	7,186	1,330	1,879	3,884	30	63
Tuskegee U.	213	4,648	6,703	6,837	6,933	5,083	1,850	0	0	0
Ohio U.	214	3,725	4,619	5,296	6,837	0	3,462	3,302	0	73
CUNY, City C.	215	6,990	5,293	4,054	6,672	0	5,275	1,236	0	161
Creighton U.	216	4,250	i 6,159	i 5,651	i 6,649	i 0	i 2,775	i 3,874	i 0	i 0
Wichita State U.	217	1,567	2,435	2,632	6,332	0	2,395	3,937	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Nebraska, Omaha	218	3,648	3,243	4,927	6,315	0	952	5,331	0	32
U. Alaska, Anchorage	219	5,625	6,313	4,779	6,170	0	5,164	157	799	50
Rowan U.	220	5,347	6,069	6,151	6,086	0	3,249	2,798	0	39
U. Alabama, Tuscaloosa	221	2,807	3,525	4,483	6,041	0	2,864	3,177	0	0
Brigham Young U., Provo	222	4,321	4,516	4,659	5,937	1,746	3,353	768	0	70
U. Massachusetts, Lowell	223	4,645	3,898	4,573	5,842	0	2,921	2,921	0	0
U. North Carolina, Greensboro	224	4,212	5,771	5,045	5,785	0	3,761	1,672	0	352
Texas Tech U.	225	5,172	6,199	4,978	5,784	2,558	1,621	760	845	0
North Carolina Central U.	226	6,581	8,027	6,664	5,699	0	5,698	1	0	0
U. Maryland Center for Environmental Science	227	6,873	8,003	5,850	5,603	511	682	0	4,331	79
Chapman U.	228	2,507	4,091	4,431	5,563	390	2,796	2,377	0	0
SUNY, C. of Environmental Science and Forestry	229	5,771	6,664	6,831	5,510	568	2,389	0	2,551	2
U. Wisconsin-Milwaukee	230	3,311	4,503	5,581	5,486	0	2,132	3,354	0	0
Marquette U.	231	5,377	6,572	5,298	5,446	88	2,967	2,391	0	0
Lincoln U., Jefferson City	232	2,118	2,319	3,351	5,444	4,792	297	107	141	107
Prairie View A&M U.	233	4,968	5,363	5,164	5,337	4,915	320	28	74	0
Baylor U.	234	1,717	2,096	3,385	5,327	230	3,462	1,446	138	51
Morgan State U.	235	3,656	3,939	4,679	5,281	75	2,121	3,085	0	0
Syracuse U.	236	4,930	5,223	5,108	5,223	0	3,858	752	613	0
U. of the Virgin Islands	237	9,146	8,079	5,976	5,203	2,609	1,913	584	97	0
Nova Southeastern U.	238	3,540	4,725	4,572	5,098	0	0	5,098	0	0
U. Massachusetts, Boston	239	4,589	4,620	4,525	5,050	5	2,827	2,104	114	0
Western U. of Health Sciences	240	2,562	2,573	4,055	5,020	493	4,511	16	0	0
Texas A&M U.-Kingsville	241	4,317	5,248	5,908	4,752	3,595	1,157	0	0	0
Lehigh U.	242	2,152	3,846	3,834	4,707	0	3,767	0	0	940
U. California, Merced	243	2,060	3,916	3,874	4,426	1	2,895	1,109	0	421
CUNY, Advanced Science Research Center	244	1,231	3,452	4,166	4,399	0	4,115	0	284	0
CUNY, Hunter C.	245	3,351	3,958	5,303	4,388	0	4,080	308	0	0
Texas State U.	246	2,257	2,579	2,260	4,329	414	3,400	0	0	515
Fort Valley State U.	247	3,382	4,228	4,492	4,313	4,192	121	0	0	0
Kent State U.	248	1,752	3,094	3,056	4,224	15	2,715	1,459	33	2
Central Michigan U.	249	4,921	4,898	4,396	4,171	0	2,740	904	527	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
West Virginia State U.	250	4,629	4,282	3,540	4,117	3,482	0	24	611	0
U. of Health Sciences and Pharmacy in St. Louis	251	ne	ne	3,767	4,063	0	0	4,063	0	0
U. Maryland, Eastern Shore	252	193	616	2,567	4,039	3,263	120	635	21	0
Tarleton State U.	253	4,016	4,293	3,534	3,983	3,831	0	0	152	0
U. Minnesota, Duluth	254	3,722	4,019	4,023	3,952	0	774	0	3,178	0
Rensselaer Polytechnic Institute	255	2,903	3,609	4,483	3,934	0	3,934	0	0	0
U. Memphis	256	4,686	4,013	3,520	3,928	0	2,036	1,812	0	80
Alcorn State U.	257	4,915	4,833	4,090	3,883	3,626	0	257	0	0
U. Detroit Mercy	258	4,308	4,728	4,002	3,709	0	3,709	0	0	0
Duquesne U.	259	3,954	3,265	3,359	3,706	0	849	2,857	0	0
Illinois State U.	260	1,715	2,873	2,405	3,685	138	2,649	898	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	261	3,057	3,057	2,085	3,588	3,448	140	0	0	0
Central State U.	262	1,500	1,674	2,444	3,552	3,195	164	0	74	119
Alabama A&M U.	263	6,853 i	4,847 i	3,305 i	3,508 i	223 i	1,130 i	2,068 i	87 i	0 i
Kentucky State U.	264	5,099	4,398	4,299	3,506	3,506	0	0	0	0
Clark Atlanta U.	265	4,134	3,859	3,468	3,496	0	3,496	0	0	0
U. New England	266	4,227	4,189	4,383	3,453	0	2,715	718	20	0
U. Missouri, Saint Louis	267	3,079	3,773	3,833	3,443	0	1,238	2,097	108	0
Oakland U.	268	2,732	3,351	2,266	3,422	0	1,710	232	0	1,480
Virginia State U.	269	3,852	4,100	3,775	3,350	3,122	38	190	0	0
U. Denver	270	2,061	2,505	2,721	3,327	0	3,273	0	54	0
California State U., Northridge	271	6,478	8,190	5,678	3,292	0	2,938	0	0	354
Old Dominion U.	272	5,535	4,018	4,053	3,286	0	1,749	1,537	0	0
U. Puerto Rico, Rio Piedras	273	1,739	2,968	2,911	3,247	0	3,234	13	0	0
California Polytechnic State U., San Luis Obispo	274	3,225	3,672	2,989	3,178	519	464	2,014	181	0
Miami U.	275	4,355	4,944	4,845	3,131	0	1,968	1,133	0	30
U. Hawaii, Hilo	276	3,364	2,996	2,989	3,113	933	657	918	253	352
Texas Southern U.	277	1,843	1,851	3,925	3,112	0	2,518	0	0	594
U. Arkansas, Pine Bluff	278	3,240	3,947	3,975	3,065	2,978	0	0	0	87
Arkansas State U., Jonesboro	279	3,126	3,346	3,344	2,909	838	2,071	0	0	0
Texas A&M U.-Corpus Christi	280	3,552	4,889	4,521	2,899	114	2,629	0	115	41

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Langston U.	281	7,111	6,300	8,473	2,873	1,929	510	434	0	0
U. North Carolina, Wilmington	282	2,532	3,558	3,327	2,861	19	1,804	129	909	0
U. North Texas, Denton	283	2,626	2,969	2,446	2,767	540	1,789	209	52	177
Jackson State U.	284	1,824	1,686	1,848	2,686	0	591	2,095	0	0
California State U., Long Beach	285	4,183	4,444	3,635	2,651	0	947	1,704	0	0
U. North Carolina, Charlotte	286	2,044	2,720	2,239	2,589	0	2,035	554	0	0
U.S. Military Academy	287	720	578	295	2,574	0	1,250	1,324	0	0
Winston-Salem State U.	288	884	650	2,043	2,515	0	189	2,326	0	0
MGH Institute of Health Professions	289	2,957	3,494	3,014	2,500	0	1,300	1,200	0	0
U. Central del Caribe	290	2,937	2,705	2,743	2,492	0	0	2,492	0	0
Colorado School of Mines	291	1,721	1,799	1,784	2,479	310	1,927	242	0	0
Mercer U.	292	1,969	1,677	1,912	2,344	0	0	1,892	0	452
Alabama State U.	293	2,434	2,577	1,989	2,265	0	2,265	0	0	0
Long Island U.	294	1,338	1,397	1,161	2,207	0	30	2,177	0	0
California State U., Monterey Bay	295	2,797	2,695	2,140	2,186	231	1,817	138	0	0
Murray State U.	296	1,317	2,201	1,539	2,159	42	2,117	0	0	0
Western Illinois U.	297	905	1,089	1,636	2,152	1,878	274	0	0	0
SUNY, C. of Optometry	298	1,944	1,823	1,688	2,105	0	0	2,105	0	0
Xavier U. Louisiana	299	2,606	1,890	2,371	2,040	0	354	1,686	0	0
Idaho State U.	300	1,990	1,624	1,949	2,035	0	1,847	188	0	0
U. Arkansas, Little Rock	301	1,330	1,693	2,187	1,978	0	1,955	21	2	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	302	2,299	2,063	2,291	1,972	0	1,855	117	0	0
California State U., Fullerton	303	2,053	2,270	1,896	1,943	136	1,577	192	38	0
Oklahoma State U., Center for Health Sciences	304	959	851	2,469	1,934	0	70	1,864	0	0
Albany C. of Pharmacy and Health Sciences	305	1,092	1,690	1,938	1,900	0	1,856	44	0	0
U. of the District of Columbia	306	916	1,083	235	1,896	1,568	63	0	0	265
U. Wisconsin-Superior	307	1,884	1,498	1,343	1,800	0	0	0	1,800	0
Palmer C. of Chiropractic, Davenport	308	1,100	1,100	1,400	1,733	0	0	0	0	1,733
Tougaloo C.	308	2,012	1,444	1,741	1,733	0	501	1,232	0	0
U. Puerto Rico, Mayaguez	310	968	1,777	1,426	1,729	864	865	0	0	0
Hampton U.	311	1,290	1,777	1,745	1,685	0	872	813	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Eastern Michigan U.	312	330	1,349	2,234	1,677	0	467	1,073	137	0
Teachers C., Columbia U.	313	1,293	1,525	1,856	1,660	0	0	0	0	1,660
SUNY, Binghamton U.	314	2,480	2,526	2,273	1,649	0	752	897	0	0
William & Mary	315	1,663	1,585	1,499	1,635	403	1,232	0	0	0
Southern Illinois U., Edwardsville	316	748	1,171	1,232	1,631	49	467	1,115	0	0
New England C. of Optometry	317	837	928	785	1,623	0	0	1,623	0	0
Tennessee Technological U.	318	454	1,092	1,282	1,621	73	1,010	78	460	0
Bates C.	319	506	720	1,128	1,610	0	1,511	0	0	99
California State Polytechnic U., Pomona	320	1,344	1,279	1,692	1,607	391	1,216	0	0	0
Fisk U.	321	2,162	4,473	3,585	1,579	0	1,579	0	0	0
Florida Institute of Technology	322	878	965	423	1,574	211	538	460	2	363
U. Wisconsin-Stevens Point	323	1,478	i 1,768	i 2,058	1,573	536	2	0	1,035	0
Texas Tech U., Health Sciences Center, El Paso	324	2,489	2,238	1,675	1,566	0	549	1,017	0	0
St. John's U., New York	325	1,323	1,284	1,375	1,541	0	898	643	0	0
Midwestern U.	326	1,278	1,045	936	1,502	22	775	705	0	0
U. Colorado Denver ^C	327	na	na	na	1,487	0	942	422	106	17
Wellesley C.	328	1,032	1,179	1,326	1,418	0	1,418	0	0	0
South Carolina State U.	329	6,129	i 1,318	i 1,367	i 1,416	i 0	i 1,217	i 199	i 0	i 0
Georgia Southern U.	330	1,057	1,024	681	1,414	22	338	493	145	416
Missouri State U.	331	1,115	1,070	1,349	1,411	465	517	0	429	0
SUNY, Polytechnic Institute	332	1,840	1,406	1,297	1,408	0	1,233	175	0	0
St. Edward's U.	333	759	2,150	1,575	1,400	150	800	0	450	0
Middle Tennessee State U.	334	907	972	1,080	1,394	475	766	12	141	0
Touro U.	335	1,410	1,540	1,546	1,375	0	537	0	0	838
Northern Kentucky U.	336	130	420	552	1,374	0	330	1,044	0	0
Southern Methodist U.	337	979	1,283	1,061	1,365	0	1,365	0	0	0
CUNY, Brooklyn C.	338	1,447	1,842	i 1,919	1,341	0	1,341	0	0	0
Ball State U.	339	1,138	1,120	1,315	1,336	0	727	608	1	0
Pacific U.	340	1,257	2,366	1,597	1,288	0	76	1,212	0	0
Pennsylvania State U., Harrisburg	341	76	25	381	1,278	21	18	1,239	0	0
Yeshiva U.	342	683	380	486	1,256	0	0	1,256	0	0
Catholic U. of America	343	2,277	2,174	1,660	1,255	0	968	287	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Reed C.	344	895	1,031	1,180	1,252	0	1,252	0	0	0
Colorado State U., Pueblo	345	ne	1,220	1,108	1,248	0	1,248	0	0	0
U. Louisiana, Monroe	346	1,497	1,393	1,788	1,232	0	298	934	0	0
Sam Houston State U.	347	255	533	637	1,212	343	869	0	0	0
Hawaii Pacific U.	348	1,235	1,159	1,224	1,211	654	557	0	0	0
Naval Postgraduate School	349	1,244	1,939	1,655	1,209	0	501	270	0	438
Bowling Green State U.	350	332	478	652	1,140	163	631	294	52	0
Saginaw Valley State U.	351	868	1,278	1,083	1,137	0	0	1,137	0	0
U. Nebraska, Kearney	352	800	936	1,035	1,126	125	545	218	238	0
New York Institute of Technology	353	684	2,194	981	1,118	0	227	891	0	0
Montclair State U.	354	1,151	1,053	1,323	1,115	0	861	216	38	0
Northeastern Illinois U.	355	1,343	1,325	1,122	1,111	27	351	724	0	9
Northern Illinois U.	356	883	601	401	1,088	0	646	336	106	0
Worcester Polytechnic Institute	357	1,257	1,087	954	1,065	0	1,065	0	0	0
San Jose State U.	358	831	1,005	1,268	1,047	0	1,047	0	0	0
Rhode Island C.	359	466	555	504	1,043	0	1,021	22	0	0
James Madison U.	360	503	698	618	1,031	0	952	19	60	0
Humboldt State U.	361	1,564	1,556	1,636	1,020	64	151	0	802	3
Bowdoin C.	362	1,120	1,083	869	1,002	0	1,002	0	0	0
Middlebury C.	363	831	296	483	999	0	999	0	0	0
Western Carolina U.	364	259	682	750	998	106	205	687	0	0
Texas Woman's U.	365	304	604	805	991	0	123	868	0	0
Indiana U. Pennsylvania	366	568	869	667	989	0	989	0	0	0
U. Texas of the Permian Basin	367	0	ne	328	962	0	962	0	0	0
Villanova U.	368	435	338	358	960	0	562	398	0	0
Florida Gulf Coast U.	369	51	73	636	954	0	62	892	0	0
U. North Carolina, Asheville	370	568	590	797	953	0	14	939	0	0
Keck Graduate Institute	371	705	781	806	940	0	392	548	0	0
U. of the Sciences Philadelphia	372	827	820	808	900	0	499	401	0	0
Clark U.	373	682	1,553	1,502	898	215	649	0	0	34
Barnard C.	374	436	356	489	897	135	762	0	0	0
C. Charleston	375	720	761	619	894	0	843	0	51	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Western Kentucky U.	376	1,237	1,607	1,385	889	217	354	180	0	138
Trinity C., Hartford	377	341	886	903	885	0	884	0	0	1
Skidmore C.	378	1,217	1,070	799	873	0	330	543	0	0
Michigan Technological U.	379	1,650	1,714	1,300	859	0	672	187	0	0
CUNY, C. Staten Island	380	145	177	377	849	0	347	502	0	0
Grand Valley State U.	381	320	845	935	784	0	303	481	0	0
Morehead State U.	382	193	601	223	782	13	721	0	48	0
U. Texas, Tyler	383	489	604	677	781	0	540	222	19	0
Smith C.	384	1,270	1,017	881	775	0	687	79	9	0
California State U., East Bay	385	ne	ne	212	773	0	291	482	0	0
Rochester Institute of Technology	386	590	594	668	763	0	763	0	0	0
Elizabeth City State U.	387	1	ne	428	751	0	751	0	0	0
CUNY, Baruch C.	388	261	284	117	749	0	749	0	0	0
U. Alaska, Southeast	389	819	625	521	745	0	710	0	35	0
U. Colorado Colorado Springs	390	547	441	705	741	0	718	0	0	23
U. North Florida	391	390	307	310	720	0	720	0	0	0
Fordham U.	392	996	995	883	717	0	717	0	0	0
U. West Florida	393	317	296	548	703	0	679	11	0	13
California State U., Stanislaus	394	469	514	752	702	0	702	0	0	0
California State U., Fresno	395	1,749	1,010	823	698	255	440	0	0	3
Stephen F. Austin State U.	396	568	590	619	680	680	0	0	0	0
Franklin and Marshall C.	397	565	593	502	676	0	584	92	0	0
Black Hills State U.	398	418	489	691	650	0	648	0	2	0
Kennesaw State U.	399	704	722	933	636	0	609	27	0	0
Spelman C.	400	684	536	624	633	0	484	149	0	0
Hobart and William Smith Colleges	401	ne	700	730	630	0	37	0	593	0
U. Wisconsin-Oshkosh	401	643	639	635	630	0	630	0	0	0
U. Northern Colorado	403	880	600	549	622	0	457	35	0	130
Seton Hall U.	404	724	810	138	607	0	607	0	0	0
U. of the Pacific	405	1,099	953	654	606	0	434	172	0	0
U. Richmond	406	599	708	648	604	0	604	0	0	0
U. of the Incarnate Word	407	160	576	545	597	0	81	516	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Tennessee, Chattanooga	408	429	564	552	594	0	594	0	0	0
Wesleyan U.	409	682	954	382	581	0	581	0	0	0
Clarkson U.	410	960	636	496	565	0	565	0	0	0
Louisiana Tech U.	411	595	608	619	562	362	194	6	0	0
Mercyhurst U.	412	ne	498 i	514 i	559 i	0 i	233 i	326 i	0 i	0 i
Doane U.	413	516	498	514 i	555 i	0 i	555 i	0 i	0 i	0 i
California State U., Los Angeles	414	1,794	2,205	1,747	554	0	319	235	0	0
U. South Carolina, Aiken	414	904	610	870	554	0	554	0	0	0
U. Akron	416	527	793	837	550	0	397	153	0	0
Augustana U.	417	606	483	ne	546	0	0	546	0	0
Edward Via C. of Osteopathic Medicine	418	195	749	566	537	0	0	537	0	0
U. Dayton	419	765	676	542	529	0	163	195	171	0
Amherst C.	420	610	757	608	527	0	527	0	0	0
National U. of Natural Medicine	421	ne	760	912	523	0	0	523	0	0
Keene State C.	422	ne	549	966	510	0	510	0	0	0
Claflin U.	423	242	350	854	505	0	482	23	0	0
U. Wisconsin-Green Bay	424	301 i	452 i	490 i	487 i	0 i	172 i	315 i	0 i	0 i
Sul Ross State U.	425	504	330	463	486 i	0 i	0 i	0 i	486 i	0 i
U. Houston-Clear Lake	426	179	9	20	478	0	38	0	440	0
Appalachian State U.	427	649	486	465	473	45	371	53	4	0
U. Washington, Bothell	428	87	455	558	468	0	323	145	0	0
Dillard U.	429	4,404	920	502	464	0	70	181	0	213
Biola U.	430	382 i	410 i	423 i	459 i	0 i	192 i	267 i	0 i	0 i
Calvin U.	431	426	449	431 i	457 i	0 i	457 i	0 i	0 i	0 i
Northland C.	432	ne	ne	ne	450 i	0 i	437 i	0 i	13 i	0 i
Johnson C. Smith U.	433	380	362	412	437 i	0 i	0 i	261 i	81 i	95 i
Mount Holyoke C.	434	20	87	333	434	0	376	0	58	0
Southeastern Louisiana U.	435	572	422	473	429	0	290	139	0	0
Swarthmore C.	436	379	468	439	428	0	428	0	0	0
DePaul U.	437	404	299	313	423	0	281	0	0	142
Williams C.	438	312	413	396 i	420 i	0 i	420 i	0 i	0 i	0 i
West Virginia School of Osteopathic Medicine	439	ne	ne	414	418	0	59	359	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Eastern Washington U.	440	580	484	391	414	0	188	6	220	0
Dordt U.	441	ne	ne	ne	412	6	406	0	0	0
Austin Peay State U.	442	328	88	410	411	0	50	0	361	0
Santa Clara U.	443	329	456	503	410	0	356	4	50	0
Hope C.	444	408	407	282	408	0	408	0	0	0
National Defense U.	445	0	0	200	400	0	400	0	0	0
U. Wisconsin-La Crosse	446	774	492	402	397	0	397	0	0	0
Southern U. and A&M C., Baton Rouge	447	352	401	336	395	17	261	17	100	0
U. Central Arkansas	448	285	263	357	386	0	303	83	0	0
Hofstra U.	449	311	360	308	385	0	358	0	27	0
California State U., Sacramento	450	279	294	434	379	0	126	0	253	0
Roger Williams U.	451	143	178	166	378	11	367	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	452	201	191	342	376	0	354	22	0	0
Gallaudet U.	453	811	408	383	372	3	0	368	1	0
U.S. Air Force Academy	454	0	140	0	369	0	317	19	33	0
Occidental C.	455	242	657	289	367	88	279	0	0	0
Willamette U.	455	368	143	35	367	0	367	0	0	0
Saint Joseph's U.	457	103	116	460	362	0	362	0	0	0
Lamar U.	458	53	440	221	357	0	0	0	0	357
Bucknell U.	459	305	245	361	354	0	354	0	0	0
Fort Lewis C.	460	ne	538	240	353	0	352	0	1	0
Eastern Kentucky U.	461	498	547	378	349	0	335	14	0	0
C. New Jersey	462	352	ne	328	347	0	347	0	0	0
Marshall B. Ketchum U.	463	354	336	323	343	0	0	343	0	0
U. California, Office of the President	464	313	319	217	342	138	0	191	0	13
Texas Christian U.	465	1,431	850	228	341	25	138	178	0	0
Colgate U.	466	293	246	84	331	0	331	0	0	0
U. Alabama, Huntsville	467	561	681	622	330	9	300	0	0	21
U. Tulsa	467	349	357	295	330	0	330	0	0	0
Towson U.	469	388	503	374	323	0	305	18	0	0
Philadelphia C. of Osteopathic Medicine	470	260	346	422	318	0	318	0	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Harvey Mudd C.	471	178	323	444	316	0	316	0	0	0
U. Puerto Rico, Cayey	471	10	45	604	316	0	145	169	2	0
California State U., San Marcos	473	1,767	1,011	896	311	0	197	100	0	14
CUNY, New York City C. of Technology	473	618	487	394	311	0	311	0	0	0
Providence C.	473	543	469	347	311	0	283	28	0	0
West Chester U. Pennsylvania	476	309	540	410	310	0	240	70	0	0
Furman U.	477	376	328	356	307	0	281	26	0	0
Montana Technological U.	478	483	478	339	305	0	305	0	0	0
U. Central Oklahoma	479	270	291	288	302	0	240	62	0	0
Minnesota State U., Mankato	480	95	136	205	300	0	300	0	0	0
Pace U.	481	193	477	753	298	0	288	10	0	0
Sonoma State U.	481	ne	ne	178	298	0	169	12	117	0
American U.	483	439	605	531	292	0	282	0	0	10
Des Moines U.	484	732	657	265	286	282	4	0	0	0
Pepperdine U.	485	279	303	121	282	0	282	0	0	0
SUNY, C. Plattsburgh	486	681	373	429	279	0	0	279	0	0
Claremont McKenna C.	487	364	337	396	274	0	274	0	0	0
U. Massachusetts, central office	488	246	198	403	272	0	0	272	0	0
Savannah State U.	489	581	320	234	268	0	3	178	0	87
California State U., Chico	490	395	458	380	267	156	111	0	0	0
U. Oklahoma, Tulsa	491	864	496	493	260	0	0	260	0	0
Davidson C.	492	240	272	200	259	0	259	0	0	0
Lewis and Clark C.	493	459	526	538	258	0	258	0	0	0
Pittsburg State U.	493	155	297	306	258	0	109	7	142	0
Stockton U.	495	138	50	85	247	0	0	25	152	70
U. New Orleans	496	200	108	148	245	0	215	0	30	0
New Mexico Institute of Mining and Technology	497	226	387	255	244	0	244	0	0	0
Loyola Marymount U.	498	105	310	261	243	0	243	0	0	0
U. Hawaii, Maui C.	499	ne	ne	ne	241	0	241	0	0	0
U. Washington, Tacoma	499	241	385	161	241	0	203	0	38	0
West Texas A&M U.	501	382	313	409	236	72	0	0	164	0
Albany State U.	502	509	737	445	232	0	94	0	39	99

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Ana G. Mendez, Gurabo	503	274	347	556	230	0	120	0	0	110
Fort Hays State U.	504	ne	322	388	226	0	226	0	0	0
Colby C.	505	613	581	289	217	0	186	0	0	31
Coastal Carolina U.	506	277	268	157	216	0	75	0	0	141
Troy U.	506	ne	ne	269	216	99	37	0	80	0
U. Michigan, Dearborn	508	248	172	283	215	0	75	140	0	0
Oberlin C.	509	265	815	252	214	0	214	0	0	0
SUNY, C. Brockport	510	667	360	444	213	0	61	0	152	0
U. Massachusetts, Dartmouth	511	903	621	253	211	0	211	0	0	0
William Paterson U.	512	23	32	103	210	0	201	9	0	0
Pomona C.	513	95	81	180	202	0	202	0	0	0
California State U., San Bernardino	514	1,034	1,055	435	199	0	93	0	106	0
Bryn Mawr C.	515	298	212	100	194	0	194	0	0	0
Ithaca C.	516	ne	ne	408	187	0	109	78	0	0
Trinity U.	517	115	95	296	184	0	184	0	0	0
New Mexico Highlands U.	518	0	ne	170	178	0	120	0	58	0
Pennsylvania State U., Behrend	519	15	17	15	176	17	0	0	159	0
Western Washington U.	520	270	249	243	175	0	175	0	0	0
Texas A&M U.-Commerce	521	91	15	26	165	165	0	0	0	0
Marymount U.	522	ne	ne	ne	163	0	0	163	0	0
Northern Michigan U.	522	89	184	127	163	0	73	0	90	0
Purdue U., Northwest	524	125	110	176	155	0	28	127	0	0
St. Olaf C.	525	97	68	40	147	0	102	0	0	45
CUNY, Lehman C.	526	892	0	136	146	0	78	68	0	0
U. Wisconsin-Platteville	527	ne	118	117	145	45	53	34	13	0
California State U., Channel Islands	528	107	64	151	143	0	0	141	2	0
U. Southern Maine	528	131	28	94	143	64	63	14	2	0
Central Washington U.	530	254	206	198	128	0	122	0	6	0
Southern Connecticut State U.	530	194	212	141	128	47	16	54	11	0
Drake U.	532	66	52	ne	123	0	8	45	70	0
Oregon Institute of Technology	532	59	90	67	123	0	66	42	15	0
U. of Mary Washington	534	7	64	85	119	0	119	0	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Carleton C.	535	42	108	82	115	0	115	0	0	0
U. of St. Thomas (MN)	536	174	196	242	113	0	113	0	0	0
U. Puerto Rico, Humacao	537	233	286	255	111	0	86	0	25	0
U. Virginia's C. Wise	537	ne	ne	ne	111	0	111	0	0	0
Eastern Connecticut State U.	539	17	169	177	108	1	107	0	0	0
Northwest Indian C.	539	1,164	104	103	108	108	0	0	0	0
Winthrop U.	541	235	359	465	103	0	103	0	0	0
Haverford C.	542	292	133	109	98	0	95	3	0	0
Central Connecticut State U.	543	ne	31	73	97	0	97	0	0	0
Colorado C.	543	51	115	20	97	0	1	0	96	0
Missouri U. of Science and Technology	543	152	143	130	97	0	97	0	0	0
Bowie State U.	546	75	122	414	96	0	96	0	0	0
Arcadia U.	547	ne	ne	ne	94	0	0	94	0	0
CUNY, Graduate Center	548	34	46	87	92	0	92	0	0	0
St. Cloud State U.	549	312	386	126	91	85	6	0	0	0
Morehouse C.	550	119	116	120	90	0	90	0	0	0
Connecticut C.	551	192	95	48	89	0	89	0	0	0
Norfolk State U.	552	53	108	114	88	0	88	0	0	0
Salisbury U.	552	77	4	32	88	0	88	0	0	0
Vassar C.	554	60	13	16	87	0	87	0	0	0
C. Wooster	555	193	110	81	86	5	81	0	0	0
Hamilton C.	555	12	51	26	86	0	86	0	0	0
Indiana State U.	555	430	502	339	86	0	78	8	0	0
Stevens Institute of Technology	558	83	33	3	83	0	83	0	0	0
Dakota State U.	559	0	0	48	80	80	0	0	0	0
Citadel Military C. South Carolina	560	ne	ne	49	77	0	77	0	0	0
U. Hartford	560	10	38	101	77	0	0	77	0	0
SUNY, Oswego	562	220	218	190	72	0	72	0	0	0
CUNY, York C.	563	ne	340	450	71	0	71	0	0	0
Christopher Newport U.	564	101	132	160	70	0	70	0	0	0
Texas A&M International U.	565	1,814	1,710	123	65	0	65	0	0	0
California State U., Bakersfield	566	396	92	70	61	8	53	0	0	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
California State U., Dominguez Hills	566	236	162	81	61	61	0	0	0	0
SUNY, Geneseo	566	80	150	58	61	0	61	0	0	0
Lafayette C.	569	50	80	50	55	0	55	0	0	0
Roseman U. of Health Sciences	570	18	37	56	53	0	0	53	0	0
CUNY, John Jay C. of Criminal Justice	571	500	156	48	48	0	43	5	0	0
U. Northern Iowa	571	115	122	129	48	48	0	0	0	0
U. Wisconsin-River Falls	571	95	ne	110	48	32	16	0	0	0
Liberty U.	574	ne	385	44	45	0	45	0	0	0
U. New Haven	574	56	30	9	45	0	25	11	9	0
Purdue U., Fort Wayne	576	448	122	117	44	0	44	0	0	0
Azusa Pacific U.	577	111	49	116	42	0	0	42	0	0
U. Michigan, Flint	577	8	9	118	42	0	0	42	0	0
U. Wisconsin-Eau Claire	577	30	35	30	42	0	42	0	0	0
Elon U.	580	0	0	16	39	0	39	0	0	0
U. North Georgia	580	2	92	91	39	0	31	0	8	0
CUNY, system office	582	0	3	84	37	0	37	0	0	0
New School	583	9	0	12	35	0	27	8	0	0
Desert Research Institute	584	246	188	43	33	0	33	0	0	0
Suffolk U.	584	ne	ne	29	33	0	33	0	0	0
Jacksonville State U.	586	11	14	16	31	0	31	0	0	0
Fayetteville State U.	587	1,354	1,236	408	30	0	30	0	0	0
Alaska Pacific U.	588	100	216	38	29	29	0	0	0	0
Seattle U.	588	138	116	86	29	4	25	0	0	0
SUNY, Buffalo State	588	207	188	176	29	0	29	0	0	0
U. San Diego	591	68	44	65	28	0	19	9	0	0
C. of Saint Benedict	592	0	0	0	24	0	14	10	0	0
Youngstown State U.	593	0	0	0	20	0	0	20	0	0
U. San Francisco	594	24	19	0	19	0	19	0	0	0
Kean U.	595	ne	ne	0	18	0	0	0	0	18
Wheaton C., Wheaton	595	27	137	142	18	0	0	18	0	0
Grinnell C.	597	221	41	29	17	0	17	0	0	0
Monmouth U.	598	ne	0	0	16	0	0	0	16	0

TABLE 43

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2021 life sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. North Carolina, general administration	599	49	24	0	12	0	0	0	0	12
Macalester C.	600	79	108	121	10	0	10	0	0	0
Union C., Schenectady	601	29	14	13	4	0	4	0	0	0
U. Illinois, Springfield	602	0	0	0	1	0	0	1	0	0
All other surveyed institutions	-	683,026	371,483	339,427	0	0	0	0	0	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.

nec = not elsewhere classified.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$34,212 thousand in federally financed R&D expenditures in life sciences in FY 2021.

^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 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.

^d 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.

^e 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 2021 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.