

TABLE 42

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
All institutions	-	22,749,759	23,867,788	25,458,209	26,254,002	1,072,057	9,339,917	14,733,751	410,120	698,157
Johns Hopkins U. <sup>a</sup>	1	650,087	667,885	706,853	714,341	0	221,384	492,957	0	0
U. Washington, Seattle	2	632,917	672,737	664,192	667,996	0	153,375	489,241	13,552	11,828
U. California, San Francisco	3	570,478	634,003	632,556	634,918	0	681	634,237	0	0
U. Pittsburgh, Pittsburgh	4	522,710	558,941	585,348	590,430	248	189,410	400,747	0	25
U. Pennsylvania	5	540,710	555,651	582,252	577,785	25	390,309	153,364	0	34,087
Duke U.	6	497,621	515,536	568,773	568,232	0	195,787	353,311	5,691	13,443
Columbia U. in the City of New York	7	435,032	488,041	539,940	562,474	0	168,917	391,314	1,434	809
U. Michigan, Ann Arbor	8	467,851	501,174	548,206	547,904	0	180,703	333,024	10,218	23,959
Stanford U.	9	481,780	488,675	519,870	529,667	0	179,023	323,047	1,161	26,436
U. North Carolina, Chapel Hill	10	472,136	489,297	513,100	521,691	0	123,492	398,199	0	0
Yale U.	11	455,347	470,751	497,350	512,821	0	140,048	367,588	5,185	0
Washington U., Saint Louis	12	414,779	444,153	476,233	489,071	0	216,565	272,506	0	0
Icahn School of Medicine at Mount Sinai	13	367,522	398,656	443,745	480,452	0	208,188	272,264	0	0
U. California, Los Angeles	14	328,895	392,520	417,741	459,909	0	22,266	437,643	0	0
Emory U.	15	358,117	367,597	393,978	419,593	0	144,201	264,862	0	10,530
U. California, San Diego	16	378,779	393,698	408,818	413,628	0	36,347	377,281	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	17	370,386	382,263	391,543	413,212	0	109,381	303,327	10	494
Harvard U.	18	373,441	389,289	423,934	401,466	0	325,366	54,439	1,884	19,777
Northwestern U.	19	317,695	339,676	370,062	393,156	0	99,378	287,948	0	5,830
U. Wisconsin-Madison	20	305,361	330,313	366,311	373,989	33,836	162,347	177,594	34	178
U. Maryland <sup>b</sup>	21	na	na	377,610	360,827	23,976	114,209	215,647	905	6,090
New York U.	22	296,101	318,869	335,764	353,092	0	147,771	203,772	0	1,549
Cornell U.	23	259,662	278,645	321,219	352,059	34,520	153,222	161,371	2,946	0
U. Alabama, Birmingham	24	308,882	319,449	345,887	341,725	0	98,997	242,728	0	0
U. Colorado Denver and Anschutz Medical Campus	25	300,551	318,122	338,009	334,819	15	2,578	331,959	31	236
U. Minnesota, Twin Cities	26	289,172	290,484	312,158	334,529	23,557	63,674	231,480	11,236	4,582
U. Southern California	27	251,662	280,016	304,604	321,802	0	91,893	215,128	0	14,781
Ohio State U.	28	270,201	270,596	289,023	321,704	28,620	58,581	225,112	5,589	3,802
Case Western Reserve U.	29	281,390	304,739	314,870	316,948	0	69,339	231,431	0	16,178
Baylor C. of Medicine	30	292,806	300,098	309,354	315,101	0	166,676	148,425	0	0
Oregon Health and Science U.	31	223,779	255,794	287,578	312,023	0	20,651	184,045	799	106,528

TABLE 42

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. California, Davis	32	258,236	277,842	287,847	293,608	34,067	136,739	122,802	0	0
Texas A&M U., College Station and Health Science Center	33	106,590	112,702	127,756	275,643	43,309	50,356	171,384	8,712	1,882
U. Florida	34	223,811	247,852	261,847	265,894	55,335	61,336	142,251	6,479	493
Indiana U., Bloomington	35	173,986	185,135	235,383	265,276	0	81,032	183,742	0	502
U. Cincinnati	36	218,631	225,026	228,266	263,035	0	35,074	223,432	0	4,529
Scripps Research Institute	37	250,090	267,088	267,122	243,502	0	243,502	0	0	0
U. Texas Southwestern Medical Center	38	200,085	197,910	203,544	242,679	0	88,551	154,128	0	0
U. Chicago	39	194,758	188,680	212,983	231,277	0	67,334	163,943	0	0
Uniformed Services U. of the Health Sciences	40	196,161	211,620	289,658	229,498	0	902	228,596	0	0
Boston U.	41	175,702	175,980	217,748	228,882	0	110,627	118,255	0	0
Rutgers, State U. New Jersey, New Brunswick	42	219,679	238,865	205,955	218,451	24,468	57,418	131,115	0	5,450
Albert Einstein C. of Medicine	43	188,259	196,457	202,513	204,635	0	0	204,635	0	0
U. Iowa	44	184,184	186,334	192,564	202,824	0	78,419	123,855	0	550
U. Utah	45	151,578	213,459	164,525	202,404	0	24,860	177,544	0	0
U. Massachusetts, Medical School	46	200,232	194,953	197,388	192,938	0	96,954	61,778	0	34,206
U. Virginia, Charlottesville	47	139,653	154,913	167,585	186,706	0	128,995	57,711	0	0
U. Arizona	48	139,722	157,629	177,953	179,457	14,157	101,105	58,241	5,954	0
U. Illinois, Chicago	49	153,240	152,074	162,930	173,236	0	42,919	128,953	1,364	0
U. Rochester	50	160,836	171,199	172,698	173,198	0	44,908	128,290	0	0
U. Miami	51	135,319	138,701	159,479	167,153	0	64,201	98,788	603	3,561
Wake Forest U.	52	145,170	151,899	163,236	164,482	0	2,459	162,023	0	0
U. Texas M. D. Anderson Cancer Center	53	146,757	153,711	154,878	163,540	8,112	64,702	90,726	0	0
Colorado State U., Fort Collins	54	78,952	101,725	144,035	160,153	24,101	23,865	19,151	90,361	2,675
U. Kentucky	55	120,508	124,665	146,907	154,842	13,703	93,567	47,572	0	0
Medical U. South Carolina	56	134,072	142,639	153,226	153,802	0	49,032	44,041	0	60,729
Pennsylvania State U., University Park and Hershey Medical Center	57	134,317	131,739	134,964	146,249	39,012	56,971	49,889	377	0
U. California, Irvine	58	103,628	115,983	128,408	142,756	0	64,157	78,599	0	0
Michigan State U.	59	138,923	143,557	155,127	136,029	36,914	61,131	27,534	1,980	8,470
U. Texas Health Science Center, Houston	60	124,461	128,232	132,647	133,624	0	35,502	53,123	0	44,999
U. Georgia	61	113,776	108,494	114,935	124,753	32,666	78,657	12,548	0	882

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**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Medical C. Wisconsin	62	108,276	106,409	113,007	122,394	0	47,297	75,097	0	0
U. California, Berkeley	63	108,037	112,538	115,309	119,018	253	67,501	25,243	26,021	0
Temple U.	64	112,783	110,881	122,159	118,429	0	34,298	58,687	0	25,444
George Washington U.	65	109,968	117,015	114,065	117,325	0	33,137	84,188	0	0
U. Texas Medical Branch	66	103,732	103,263	107,395	113,827	0	86,048	27,779	0	0
U. Kansas	67	85,392	94,896	102,440	113,305	306	38,670	69,398	4,352	579
U. Illinois, Urbana-Champaign	68	84,273	81,037	97,918	110,331	30,482	44,234	722	34,893	0
Virginia Commonwealth U.	69	105,606	100,472	101,127	108,867	0	40,720	57,194	0	10,953
SUNY, U. Buffalo	70	105,530	102,258	102,425	108,496	0	47,604	59,728	0	1,164
U. Nebraska, Medical Center	71	84,814	93,463	102,604	105,158	0	70,536	34,622	0	0
U. Texas Health Science Center, San Antonio	72	85,455	86,956	96,502	102,959	0	49,214	53,745	0	0
Tufts U.	73	110,859	48,260	83,149	102,746	2,693	69,674	25,561	0	4,818
Brown U.	74	76,256	89,486	94,797	99,779	0	41,143	31,743	0	26,893
U. Missouri, Columbia	75	87,908	88,197	92,664	99,475	17,807	39,472	35,673	6,460	63
U. New Mexico	76	99,280	107,957	96,789	94,977	0	23,802	68,385	2,230	560
Dartmouth C. and Dartmouth Hitchcock Medical Center	77	99,646	100,337	110,949	94,419	0	49,057	43,926	605	831
U. Connecticut	78	90,872	84,253	94,232	93,227	3,661	49,480	38,304	1,782	0
Tulane U.	79	80,943	89,243	90,615	92,019	0	26,219	16,346	94	49,360
U. South Florida, Tampa	80	157,613	103,580	105,807	89,644	0	64,867	24,754	0	23
Wayne State U.	81	88,338	88,216	92,845	89,306	0	14,506	74,025	0	775
Washington State U.	82	82,888	78,651	86,617	84,222	28,774	21,674	32,030	452	1,292
Rockefeller U.	83	81,732	82,864	81,326	82,626	0	78,153	4,473	0	0
U. Vermont	84	62,350	70,687	74,193	81,752	9,977	37,701	33,364	710	0
Georgetown U.	85	79,254	74,985	77,391	77,133	0	9,790	66,199	0	1,144
Massachusetts Institute of Technology	86	75,247	80,693	80,200	76,829	0	42,112	14,516	0	20,201
Purdue U., West Lafayette	87	71,258	74,981	73,576	76,677	33,464	13,534	29,679	0	0
Thomas Jefferson U.	88	62,029	64,869	74,816	74,594	0	42,244	32,350	0	0
U. Oklahoma, Norman and Health Science Center	89	66,701	64,447	66,880	72,245	0	28,155	43,535	0	555
U. Louisville	90	61,281	67,365	71,330	71,342	0	39,447	28,362	0	3,533
Oregon State U.	91	61,316	64,925	68,066	70,516	25,271	27,860	5,837	11,483	65
U. Arkansas for Medical Sciences	92	51,298	57,523	63,498	70,508	0	38,357	31,804	0	347

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					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Texas, Austin	93	56,797	71,862	70,469	70,386	30	38,317	28,826	986	2,227
North Carolina State U.	94	67,975	68,297	70,069	68,962	19,714	42,625	0	0	6,623
SUNY, Stony Brook U.	95	56,047	62,230	63,440	66,263	0	39,569	26,694	0	0
California Institute of Technology	96	52,373	54,071	60,735	65,063	0	65,017	46	0	0
Virginia Polytechnic Institute and State U.	97	62,211	62,829	67,390	64,084	18,675	15,769	19,730	9,736	174
Rush U.	98	48,442	61,445	66,527	63,438	0	12,252	51,186	0	0
U. Hawaii, Manoa	99	65,001	65,897	66,036	62,548	7,319	16,953	32,477	1,391	4,408
Cold Spring Harbor Laboratory	100	54,260	67,139	73,854	62,068	1,581	60,487	0	0	0
Iowa State U.	101	54,681	54,201	54,905	60,272	17,311	18,255	5,715	6,713	12,278
U. Mississippi	102	49,446	51,426	57,460	59,546	96	11,028	46,807	0	1,615
Augusta U.	103	48,869	48,749	46,970	55,685	0	29,605	25,747	0	333
U. South Carolina, Columbia	104	51,715	48,945	53,489	53,870	0	10,663	43,207	0	0
Princeton U.	105	42,993	47,385	55,044	53,867	0	50,581	0	3,286	0
Arizona State U.	106	59,205	64,121	47,334	51,775	0	35,741	15,960	57	17
Drexel U.	107	39,000	47,522	51,968	49,999	0	24,521	25,113	365	0
U. Nebraska, Lincoln	108	46,486	46,984	48,939	48,702	25,974	12,887	5,797	4,044	0
U. Tennessee, Health Science Center	109	39,073	38,895	42,347	48,264	0	19,859	28,260	0	145
U. Montana, Missoula	110	35,648	39,026	40,114	45,895	17	15,437	21,652	8,789	0
Louisiana State U., Baton Rouge	111	47,443	44,434	47,731	45,823	15,981	26,797	527	2,518	0
SUNY, U. Albany	112	53,211	65,947	71,179	45,162	0	17,227	27,935	0	0
Kansas State U.	113	47,445	47,740	46,819	43,367	28,326	14,289	752	0	0
U. Colorado Boulder	114	31,000	33,518	42,813	42,667	802	34,958	3,939	381	2,587
U. California, Riverside	115	28,876	28,846	31,966	41,696	6,876	25,037	9,783	0	0
West Virginia U.	116	35,201	35,726	39,527	41,367	5,230	12,150	18,908	4,068	1,011
Cleveland State U.	117	41,832	44,887	38,942	40,809	0	40,320	433	0	56
Mississippi State U.	118	33,309	31,543	35,061	37,520	26,432	5,110	206	5,689	83
U. Massachusetts, Amherst	119	34,509	34,641	36,775	36,163	10,229	15,754	6,464	3,689	27
Georgia State U.	120	32,818	34,958	33,247	35,718	142	24,615	10,882	0	79
U. Delaware	121	32,768	26,620	30,421	34,456	8,759	4,094	21,603	0	0
Florida State U.	122	20,198	25,178	31,905	34,311	170	12,479	19,862	907	893
U. Nevada, Reno	123	28,310	30,829	31,278	33,564	4,101	18,123	8,277	2,235	828
U. Idaho	124	26,700	27,029	30,467	33,427	13,218	17,044	93	3,010	62

TABLE 42

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020**

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Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Montana State U., Bozeman	125	26,881	27,955	33,739	33,155	11,916	14,059	7,076	104	0
Louisiana State U., Health Sciences Center, New Orleans	126	27,543	26,988	31,290	31,381	0	16,359	14,392	0	630
U. Wyoming	127	28,555	23,848	29,891	31,367	8,337	13,246	2,026	7,748	10
U. Tennessee, Knoxville <sup>c</sup>	128	10,044	10,634	11,210	30,983	10,737	10,968	4,173	5,105	0
U. New Hampshire	129	27,437	32,492	27,400	30,725	7,826	7,420	9,845	5,634	0
Auburn U., Auburn	130	21,548	24,809	24,883	29,821	13,856	5,918	1,657	434	7,956
U. Oregon	131	28,384	26,484	29,759	29,342	0	28,932	4	406	0
Saint Louis U.	132	24,870	25,030	30,144	29,211	0	13,489	15,722	0	0
U. Puerto Rico, Medical Sciences Campus	133	29,869	30,597	34,541	26,897	0	0	26,897	0	0
SUNY, Downstate Medical Center	134	22,496	26,302	26,914	26,454	0	26,171	283	0	0
U. North Texas, Health Science Center	135	26,368	27,188	26,489	25,461	0	6,661	18,800	0	0
Utah State U.	136	28,177	25,380	27,195	24,904	13,973	1,868	1,877	7,186	0
Northern Arizona U.	137	18,043	16,929	22,912	24,039	470	15,010	3,702	3,961	896
SUNY, Upstate Medical U.	138	19,991	20,391	22,028	23,940	0	10,783	13,081	0	76
Florida International U.	139	21,264	21,098	21,908	23,279	76	19,181	2,603	1,419	0
Georgia Institute of Technology	140	11,347	16,020	15,691	22,969	0	9,186	13,779	0	4
Morehouse School of Medicine	141	28,792	24,326	22,461	22,500	0	0	22,500	0	0
Clemson U.	142	18,867	17,577	18,084	21,908	6,920	8,494	1,847	0	4,647
Brandeis U.	143	23,702	19,117	19,823	21,616	0	20,298	1,318	0	0
Loyola U., Chicago	144	21,028	19,379	20,625	21,189	0	11,042	9,898	249	0
U. Rhode Island	145	17,620	17,752	18,557	21,040	1,970	15,256	2,339	0	1,475
Northeastern U.	146	18,037	18,944	18,983	20,238	0	12,023	4,591	0	3,624
U. Louisiana, Lafayette	147	7,479	11,620	18,209	19,960	122	11,539	8,299	0	0
U. Maine	148	10,966	17,333	18,122	19,256	8,993	4,992	0	5,271	0
Van Andel Research Institute	149	13,108	14,285	18,259	18,538	0	18,538	0	0	0
U. Houston	150	14,326	14,971	18,470	18,438	29	7,235	10,906	255	13
Florida A&M U.	151	17,628	15,164	18,275	18,174	8,004	61	7,301	317	2,491
Oklahoma State U., Stillwater	152	17,804	18,207	17,380	17,865	5,779	7,699	1,106	3,281	0
North Dakota State U.	153	16,384	17,948	17,721	17,605	8,702	2,235	5,142	1,526	0
New Mexico State U.	154	12,649	13,510	15,987	17,602	7,856	8,253	397	11	1,085
Loma Linda U.	155	15,192	15,790	16,909	17,457	0	9,105	8,352	0	0

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					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. California, Santa Cruz	156	16,359	15,431	15,946	16,914	159	16,755	0	0	0
U. Arkansas, Fayetteville	157	19,754	23,231	21,808	16,887	12,139	2,880	821	1,047	0
South Dakota State U.	158	18,512	18,857	22,888	16,767	9,950	1,813	1,596	1,971	1,437
U. Texas, Dallas	159	8,237	10,606	13,916	16,603	0	3,035	13,568	0	0
U. North Dakota	160	14,068	14,405	13,647	15,954	0	8,147	7,807	0	0
Howard U.	161	18,735	18,013	16,333	15,752	0	1,798	12,922	0	1,032
Eastern Virginia Medical School	162	21,209	21,356	19,408	15,748	0	6,821	8,927	0	0
San Diego State U.	163	16,650	16,474	16,844	15,009	0	6,374	8,423	212	0
New Jersey Institute of Technology	164	14,184	23,006	19,806	14,836	0	1,109	13,727	0	0
U. Nevada, Las Vegas	165	9,530	13,165	12,545	14,582	65	8,177	5,767	120	453
U. Alaska, Fairbanks	166	17,239	14,540	10,218	14,391	1,823	10,426	431	1,711	0
U. Central Florida	167	9,870	11,036	11,466	13,481	0	10,063	3,418	0	0
U. Missouri, Kansas City	168	8,229	6,419	10,630	13,054	0	3,943	9,111	0	0
Texas Tech U., Health Sciences Center	169	8,995	7,477	11,262	12,977	0	9,477	3,500	0	0
Albany Medical C.	170	11,040	10,243	11,827	12,940	0	12,263	677	0	0
U. California, Santa Barbara	171	16,536	16,706	16,345	12,927	0	12,288	0	639	0
U. Toledo	172	10,584	11,602	13,213	12,830	19	2,730	9,989	0	92
Meharry Medical C.	173	15,613	14,515	16,443	12,573	0	12,573	0	0	0
U. Nebraska, central administration	174	ne	8,817	11,875	12,521	1,674	9,514	1,333	0	0
East Carolina U.	175	9,347	9,773	12,382	12,296	9	1,150	11,137	0	0
U. South Alabama	176	11,591	10,329	12,364	12,175	0	41	11,871	0	263
New York Medical C.	177	9,000	8,141	11,061	12,106	0	4,316	3,010	0	4,780
Indiana U.-Purdue U., Indianapolis	178	7,260	8,368	9,805	11,548	0	5,851	5,576	0	121
Portland State U.	179	9,227	10,857	12,530	11,523	38	7,166	2,097	2,222	0
Louisiana State U., Health Sciences Center, Shreveport	180	7,055	9,235	12,185	11,452	0	9,794	1,658	0	0
Ponce Health Sciences U.	181	7,108	6,386	8,339	11,228	0	0	11,228	0	0
U. Notre Dame	182	11,737	11,043	13,259	11,155	0	11,155	0	0	0
Florida Atlantic U.	183	7,624	7,668	9,452	11,087	67	6,357	3,380	0	1,283
U. Texas, San Antonio	184	8,482	8,553	12,135	10,733	0	9,925	808	0	0
Northeast Ohio Medical U.	185	9,994	9,634	10,029	10,649	0	7,209	3,274	0	166
U. Texas, El Paso	186	12,990	12,056	12,223	10,414	0	8,015	2,007	392	0

TABLE 42

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Marshall U.	187	7,854	7,953	8,481	10,082	0	1,964	8,118	0	0
Southern Illinois U., Carbondale	188	9,570	9,252	9,580	9,899	3,684	2,290	3,925	0	0
Charles R. Drew U. of Medicine and Science	189	14,461	10,198	10,427	9,863	0	0	9,863	0	0
U. South Dakota	190	9,052	10,007	9,660	9,733	0	9,131	504	0	98
Carnegie Mellon U.	191	6,876	7,061	9,677	9,523	427	8,344	493	0	259
CUNY, Queens C.	192	8,129	8,502	9,569	9,378	0	1,054	8,321	0	3
San Francisco State U.	193	7,745	7,900	8,950	9,325	0	8,988	98	152	87
George Mason U.	194	11,814	11,332	9,658	8,803	73	5,178	3,326	196	30
U. Maryland, Baltimore County	195	2,419	3,491	9,297	8,644	473	7,913	142	0	116
Illinois Institute of Technology	196	9,356	9,514	10,066	8,605	682	7,375	487	0	61
Rice U.	197	7,686	7,813	8,245	8,540	0	8,540	0	0	0
Delaware State U.	198	8,126	6,946	8,139	8,480	3,557	4,746	177	0	0
Langston U.	199	7,921	7,111	6,300	8,473	5,245	1,650	1,578	0	0
Rosalind Franklin U. of Medicine and Science	200	8,794	9,203	8,765	8,421	0	7,651	770	0	0
Wright State U.	201	9,035	9,512	9,735	8,029	0	4,918	3,109	0	2
U. Texas Health Science Center, Tyler	202	5,792	6,438	7,084	7,732	0	7,732	0	0	0
Rutgers, State U. New Jersey, Newark	203	8,700	6,954	5,847	7,681	0	7,681	0	0	0
U. Texas, Arlington	204	2,328	2,409	5,586	7,558	0	2,515	5,042	1	0
CUNY, Graduate School of Public Health and Health Policy	205	na	3,757	3,933	7,444	154	688	6,602	0	0
U. Texas Rio Grande Valley	206	7,979	7,147	8,649	7,403	1,123	2,225	3,852	22	181
U. Southern Mississippi	207	4,765	6,110	6,662	7,241	0	6,633	608	0	0
Boston C.	208	11,429	10,440	11,274	7,119	0	6,057	1,062	0	0
Boise State U.	209	6,149	5,847	6,384	7,021	248	5,371	867	535	0
North Carolina Agricultural and Technical State U.	210	9,141	7,924	7,118	6,945	3,287	1,455	0	2,203	0
Tuskegee U.	211	4,648	4,648	6,703	6,837	5,084	1,753	0	0	0
SUNY, C. of Environmental Science and Forestry	212	6,350	5,771	6,664	6,831	604	3,064	0	3,163	0
East Tennessee State U.	213	5,329	5,827	7,011	6,785	2	4,219	2,564	0	0
Tennessee State U.	214	6,352	6,778	6,743	6,694	4,862	1,376	44	22	390
North Carolina Central U.	215	5,484	6,581	8,027	6,664	0	6,362	302	0	0
U. Guam	216	5,378	5,841	6,201	6,625	1,428	205	2,034	2,958	0
Rowan U.	217	4,192	5,347	6,069	6,151	0	2,705	3,446	0	0

TABLE 42

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. of the Virgin Islands	218	9,333	9,146	8,079	5,976	2,140	1,554	1,157	1,125	0
Texas A&M U.-Kingsville	219	4,291	4,317	5,248	5,908	4,753	1,120	0	35	0
U. Maryland Center for Environmental Science	220	4,556	6,873	8,003	5,850	588	1,261	0	3,946	55
California State U., Northridge	221	4,700	6,478	8,190	5,678	252	2,980	0	0	2,446
Creighton U.	222	6,109	4,250	6,159	5,651	0	2,430	3,209	12	0
U. Wisconsin-Milwaukee	223	2,503	3,311	4,503	5,581	0	2,489	3,092	0	0
CUNY, Hunter C.	224	5,373	3,351	3,958	5,303	0	5,050	253	0	0
Marquette U.	225	4,948	5,377	6,572	5,298	84	3,443	1,771	0	0
Ohio U.	226	4,668	3,725	4,619	5,296	0	2,603	2,501	0	192
Prairie View A&M U.	227	5,492	4,968	5,363	5,164	4,615	369	48	132	0
Syracuse U.	228	5,571	4,930	5,223	5,108	86	3,734	647	641	0
U. North Carolina, Greensboro	229	4,103	4,212	5,771	5,045	0	3,013	2,032	0	0
Texas Tech U.	230	5,756	5,172	6,199	4,978	1,934	1,723	570	751	0
U. Nebraska, Omaha	231	4,238	3,648	3,243	4,927	0	2,192	2,658	0	77
Miami U.	232	3,485	4,355	4,944	4,845	0	3,760	1,085	0	0
U. Alaska, Anchorage	233	5,188	5,625	6,313	4,779	61	3,606	0	700	412
Morgan State U.	234	3,902	3,656	3,939	4,679	25	2,890	1,764	0	0
Brigham Young U., Provo	235	6,078	4,321	4,516	4,659	1,090	3,131	392	0	46
U. Massachusetts, Lowell	236	7,224	4,645	3,898	4,573	0	3,156	1,417	0	0
Nova Southeastern U.	237	3,649	3,540	4,725	4,572	0	0	4,572	0	0
U. Massachusetts, Boston	238	4,613	4,589	4,620	4,525	0	2,827	1,591	107	0
Texas A&M U.-Corpus Christi	239	1,846	3,552	4,889	4,521	17	4,191	0	292	21
Fort Valley State U.	240	4,797	3,382	4,228	4,492	4,371	121	0	0	0
Rensselaer Polytechnic Institute	241	2,812	2,903	3,609	4,483	0	4,483	0	0	0
U. Alabama, Tuscaloosa	241	2,104	2,807	3,525	4,483	0	2,119	2,364	0	0
Chapman U.	243	1,784	2,507	4,091	4,431	102	2,519	1,810	0	0
Central Michigan U.	244	3,774	4,921	4,898	4,396	0	3,071	844	481	0
U. New England	245	4,685	4,227	4,189	4,383	0	2,927	1,428	28	0
Kentucky State U.	246	4,885	5,099	4,398	4,299	4,225	0	0	74	0
CUNY, Advanced Science Research Center	247	488	1,231	3,452	4,166	0	3,304	0	785	77
Alcorn State U.	248	5,803	4,915	4,833	4,090	3,983	0	107	0	0
Western U. of Health Sciences	249	2,714	2,562	2,573	4,055	456	3,585	14	0	0



TABLE 42

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
CUNY, City C.	250	7,511	6,990	5,293	4,054	0	2,012	2,024	0	18
Old Dominion U.	251	5,648	5,535	4,018	4,053	0	1,867	2,186	0	0
U. Minnesota, Duluth	252	4,313	3,722	4,019	4,023	0	592	0	3,431	0
U. Detroit Mercy	253	2,188	4,308	4,728	4,002	0	3,984	18	0	0
U. Arkansas, Pine Bluff	254	3,392	3,240	3,947	3,975	3,820	58	0	0	97
U. California, Merced	255	1,700	2,060	3,916	3,874	0	3,335	539	0	0
Lehigh U.	256	1,269	2,152	3,846	3,834	0	3,834	0	0	0
U. Missouri, Saint Louis	257	2,282	3,079	3,773	3,833	0	1,025	2,591	217	0
Virginia State U.	258	3,413	3,852	4,100	3,775	3,572	24	179	0	0
U. of Health Sciences and Pharmacy in St. Louis	259	ne	ne	ne	3,767	0	0	3,767	0	0
California State U., Long Beach	260	1,906	4,183	4,444	3,635	0	1,849	1,784	0	2
Fisk U.	261	845	2,162	4,473	3,585	0	3,427	113	32	13
West Virginia State U.	262	4,585	4,629	4,282	3,540	2,035	748	0	757	0
Tarleton State U.	263	3,759	4,016	4,293	3,534	3,394	15	0	125	0
U. Memphis	264	3,253	4,686	4,013	3,520	0	2,339	1,139	0	42
Clark Atlanta U.	265	3,881	4,134	3,859	3,468	0	3,468	0	0	0
Baylor U.	266	1,041	1,717	2,096	3,385	177	1,930	1,255	23	0
Duquesne U.	267	4,025	3,954	3,265	3,359	0	1,178	2,181	0	0
Lincoln U., Jefferson City	268	3,481	2,118	2,319	3,351	2,940	227	0	177	7
Arkansas State U., Jonesboro	269	2,349	3,126	3,346	3,344	1,159	2,185	0	0	0
U. North Carolina, Wilmington	270	2,546	2,532	3,558	3,327	0	2,330	151	846	0
Alabama A&M U.	271	8,860	6,853	4,847	3,305	209	1,104	1,916	76	0
Kent State U.	272	1,441	1,752	3,094	3,056	0	2,624	424	3	5
MGH Institute of Health Professions	273	1,839	2,957	3,494	3,014	0	1,427	1,587	0	0
California Polytechnic State U., San Luis Obispo	274	3,168	3,225	3,672	2,989	336	609	1,836	208	0
U. Hawaii, Hilo	274	4,202	3,364	2,996	2,989	573	1,145	631	138	502
U. Puerto Rico, Rio Piedras	276	1,883	1,739	2,968	2,911	0	2,884	27	0	0
U. Central del Caribe	277	4,866	2,937	2,705	2,743	0	0	2,743	0	0
U. Denver	278	1,352	2,061	2,505	2,721	0	2,441	0	280	0
Wichita State U.	279	628	1,567	2,435	2,632	0	2,623	9	0	0
U. Maryland, Eastern Shore	280	1,999	193	616	2,567	1,885	269	259	154	0
Oklahoma State U., Center for Health Sciences	281	729	959	851	2,469	0	0	2,469	0	0

TABLE 42

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. North Texas, Denton	282	2,268	2,626	2,969	2,446	136	2,197	48	0	65
Central State U.	283	700	1,500	1,674	2,444	2,204	59	0	102	79
Illinois State U.	284	1,595	1,715	2,873	2,405	29	1,692	684	0	0
Xavier U. Louisiana	285	2,405	2,606	1,890	2,371	0	987	1,384	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	286	2,101	2,299	2,063	2,291	0	2,015	276	0	0
SUNY, Binghamton U.	287	1,428	2,480	2,526	2,273	0	954	1,319	0	0
Oakland U.	288	3,088	2,732	3,351	2,266	0	1,664	69	0	533
Texas State U.	289	2,302	2,257	2,579	2,260	291	1,103	354	0	512
U. North Carolina, Charlotte	290	2,426	2,044	2,720	2,239	0	1,676	563	0	0
Eastern Michigan U.	291	236	330	1,349	2,234	0	763	1,413	58	0
U. Arkansas, Little Rock	292	1,809	1,330	1,693	2,187	0	2,143	35	9	0
California State U., Monterey Bay	293	2,723	2,797	2,695	2,140	281	1,859	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	294	2,736	i 3,057	3,057	2,085	2,085	0	0	0	0
U. Wisconsin-Stevens Point	295	1,188	i 1,478	i 1,768	i 2,058	679	2	19	1,358	0
Winston-Salem State U.	296	866	884	650	2,043	0	677	1,366	0	0
Alabama State U.	297	2,253	2,434	2,577	1,989	0	1,747	0	0	242
Idaho State U.	298	2,449	1,990	1,624	1,949	0	1,666	283	0	0
Albany C. of Pharmacy and Health Sciences	299	566	1,092	1,690	1,938	0	1,111	827	0	0
CUNY, Brooklyn C.	300	1,389	1,447	1,842	i 1,919	0	1,363	556	0	0
Mercer U.	301	1,619	1,969	1,677	1,912	0	0	1,457	0	455
California State U., Fullerton	302	1,969	2,053	2,270	1,896	223	1,262	335	76	0
Teachers C., Columbia U.	303	1,280	1,293	1,525	1,856	0	0	0	0	1,856
Jackson State U.	304	3,136	1,824	1,686	1,848	0	804	1,044	0	0
Texas Southern U.	305	2,172	1,843	1,851	1,804	0	1,804	0	0	0
U. Louisiana, Monroe	306	1,582	1,497	1,393	1,788	0	409	1,379	0	0
Colorado School of Mines	307	2,339	1,721	1,799	1,784	146	1,513	125	0	0
California State U., Los Angeles	308	847	1,794	2,205	1,747	0	1,512	235	0	0
Hampton U.	309	2,095	1,290	1,777	1,745	0	783	962	0	0
Tougaloo C.	310	2,120	2,012	1,444	1,741	0	503	1,238	0	0
California State Polytechnic U., Pomona	311	1,223	1,344	1,279	1,692	327	1,365	0	0	0

TABLE 42

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
SUNY, C. of Optometry	312	2,073	1,944	1,823	1,688	0	0	1,688	0	0
Texas Tech U., Health Sciences Center, El Paso	313	2,329	2,489	2,238	1,675	0	486	1,189	0	0
Catholic U. of America	314	1,925	2,277	2,174	1,660	0	1,228	432	0	0
Naval Postgraduate School	315	369	1,244	1,939	1,655	0	1,185	200	0	270
Humboldt State U.	316	1,233	1,564	1,556	1,636	104	552	0	924	56
Western Illinois U.	316	648	905	1,089	1,636	983	653	0	0	0
Pacific U.	318	1,505	1,257	2,366	1,597	0	25	1,572	0	0
St. Edward's U.	319	2,230	759	2,150	1,575	275	800	0	500	0
Touro U.	320	1,196	1,410	1,540	1,546	0	521	0	0	1,025
Murray State U.	321	961	1,317	2,201	1,539	43	1,496	0	0	0
Clark U.	322	397	682	1,553	1,502	797	705	0	0	0
William & Mary	323	1,630	1,663	1,585	1,499	294	1,205	0	0	0
U. Puerto Rico, Mayaguez	324	1,002	968	1,777	1,426	508	918	0	0	0
Palmer C. of Chiropractic, Davenport	325	1,189	1,100	1,100	1,400	0	0	0	0	1,400
Western Kentucky U.	326	1,702	1,237	1,607	1,385	430	706	0	0	249
St. John's U., New York	327	806	1,323	1,284	1,375	0	819	556	0	0
South Carolina State U.	328	5,867	6,129	1,318	1,367	0	1,175	192	0	0
Missouri State U.	329	900	1,115	1,070	1,349	484	475	0	390	0
U. Wisconsin-Superior	330	ne	1,884	1,498	1,343	0	1	0	1,342	0
Wellesley C.	331	852	1,032	1,179	1,326	0	1,326	0	0	0
Montclair State U.	332	406	1,151	1,053	1,323	14	948	300	61	0
Ball State U.	333	1,115	1,138	1,120	1,315	0	689	598	28	0
Michigan Technological U.	334	1,832	1,650	1,714	1,300	0	901	399	0	0
SUNY, Polytechnic Institute	335	2,675	1,840	1,406	1,297	0	1,297	0	0	0
Tennessee Technological U.	336	411	454	1,092	1,282	90	870	0	322	0
San Jose State U.	337	644	831	1,005	1,268	0	1,268	0	0	0
Southern Illinois U., Edwardsville	338	791	748	1,171	1,232	0	271	961	0	0
Hawaii Pacific U.	339	1,230	1,235	1,159	1,224	654	570	0	0	0
Reed C.	340	354	895	1,031	1,180	0	1,180	0	0	0
Long Island U.	341	1,101	1,338	1,397	1,161	0	58	1,103	0	0
Bates C.	342	521	506	720	1,128	0	1,095	0	0	33
Northeastern Illinois U.	343	380	1,343	1,325	1,122	0	249	873	0	0

TABLE 42

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Colorado State U., Pueblo	344	ne	ne	1,220	1,108	0	1,081	0	0	27
Saginaw Valley State U.	345	406	868	1,278	1,083	0	0	1,083	0	0
Middle Tennessee State U.	346	1,161	907	972	1,080	301	599	0	180	0
Southern Methodist U.	347	857	979	1,283	1,061	0	1,061	0	0	0
U. Nebraska, Kearney	348	764	800	936	1,035	95	405	327	208	0
New York Institute of Technology	349	516	684	2,194	981	0	283	698	0	0
Keene State C.	350	162	ne	549	966	0	955	0	11	0
Worcester Polytechnic Institute	351	932	1,257	1,087	954	0	954	0	0	0
Midwestern U.	352	1,184	1,278	1,045	936	33	448	455	0	0
Grand Valley State U.	353	258	320	845	935	0	262	673	0	0
Kennesaw State U.	354	528	704	722	933	0	618	315	0	0
National U. of Natural Medicine	355	427	ne	760	912	0	0	912	0	0
Trinity C., Hartford	356	520	341	886	903	0	861	0	0	42
California State U., San Marcos	357	2,319	1,767	1,011	896	0	642	254	0	0
Fordham U.	358	1,285	996	995	883	0	883	0	0	0
Smith C.	359	1,298	1,270	1,017	881	0	867	14	0	0
U. South Carolina, Aiken	360	1,052	904	610	870	0	870	0	0	0
Bowdoin C.	361	1,120	1,120	1,083	869	0	869	0	0	0
Clafin U.	362	416	242	350	854	0	854	0	0	0
U. Akron	363	432	527	793	837	0	694	143	0	0
California State U., Fresno	364	1,407	1,749	1,010	823	451	362	10	0	0
U. of the Sciences Philadelphia	365	799	827	820	808	0	554	254	0	0
Keck Graduate Institute	366	969	705	781	806	0	348	458	0	0
Texas Woman's U.	367	320	304	604	805	28	430	347	0	0
Skidmore C.	368	977	1,217	1,070	799	0	69	730	0	0
U. North Carolina, Asheville	369	500	568	590	797	0	73	667	57	0
New England C. of Optometry	370	ne	837	928	785	0	0	785	0	0
Pace U.	371	168	193	477	753	0	386	19	0	348
California State U., Stanislaus	372	366	469	514	752	0	752	0	0	0
Western Carolina U.	373	202	259	682	750	63	66	621	0	0
U. Wisconsin-Oshkosh	374	623	651	707	737	0	269	468	0	0
Hobart and William Smith Colleges	375	144	ne	700	730	11	39	0	680	0

TABLE 42

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Colorado Colorado Springs	376	454	547	441	705	0	651	0	0	54
Black Hills State U.	377	368	418	489	691	0	658	0	31	2
Georgia Southern U.	378	1,917	1,057	1,024	681	23	5	570	36	47
U. Texas, Tyler	379	347	489	604	677	146	259	272	0	0
Rochester Institute of Technology	380	418	590	594	668	0	668	0	0	0
Indiana U. Pennsylvania	381	656	568	869	667	0	667	0	0	0
U. of the Pacific	382	734	1,099	953	654	0	326	328	0	0
Bowling Green State U.	383	227	332	478	652	92	376	122	62	0
U. Richmond	384	482	599	708	648	0	648	0	0	0
Sam Houston State U.	385	266	255	533	637	258	379	0	0	0
Florida Gulf Coast U.	386	703	51	73	636	26	0	594	16	0
Saint Michael's C.	387	1,042	1,016	708	627	0	622	0	0	5
Spelman C.	388	759	684	536	624	0	604	20	0	0
U. Alabama, Huntsville	389	282	561	681	622	0	583	39	0	0
C. Charleston	390	1,286	720	761	619	0	561	0	58	0
Louisiana Tech U.	390	666	595	608	619	350	232	37	0	0
Stephen F. Austin State U.	390	757	568	590	619	619	0	0	0	0
James Madison U.	393	562	503	698	618	0	533	0	85	0
Amherst C.	394	381	610	757	608	0	608	0	0	0
U. Puerto Rico, Cayey	395	47	10	45	604	0	237	327	40	0
Edward Via C. of Osteopathic Medicine	396	94	195	749	566	0	1	565	0	0
U. Washington, Bothell	397	0	87	455	558	172	0	297	89	0
U. Ana G. Mendez, Gurabo	398	419	274	347	556	0	446	0	0	110
Northern Kentucky U.	399	364	130	420	552	0	257	295	0	0
U. Tennessee, Chattanooga	399	279	429	564	552	0	552	0	0	0
U. Northern Colorado	401	990	880	600	549	0	389	128	0	32
U. West Florida	402	317	317	296	548	0	409	28	0	111
U. of the Incarnate Word	403	ne	160	576	545	0	14	531	0	0
U. Dayton	404	349	765	676	542	0	205	172	165	0
Lewis and Clark C.	405	286	459	526	538	0	538	0	0	0
American U.	406	717	439	605	531	0	476	0	0	55
U. Alaska, Southeast	407	454	819	625	521	96	369	13	43	0

TABLE 42

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020														
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec									
Kenyon C.	408	ne	501	484	520	0	520	0	0	0									
Doane U.	409	ne	516	498	514	i	0	i	514	i	0	i							
Mercyhurst U.	409	0	i	ne	498	i	514	i	0	i	292	i	0	i					
Rhode Island C.	411	522	466	555	504	0	504	0	0	0									
Santa Clara U.	412	490	329	456	503	0	463	3	37	0									
Dillard U.	413	3,932	4,404	920	502	0	500	2	0	0									
Franklin and Marshall C.	413	688	565	593	502	0	502	0	0	0									
Clarkson U.	415	1,004	960	636	496	0	442	54	0	0									
U. Oklahoma, Tulsa	416	344	864	496	493	0	0	493	0	0									
U. Wisconsin-Green Bay	417	220	i	301	i	452	i	490	i	31	i	164	i	284	i	11	i	0	i
Barnard C.	418	331	436	356	489	57	432	0	0	0									
Yeshiva U.	419	816	683	380	486	0	0	486	0	0									
Middlebury C.	420	645	831	296	483	0	374	109	0	0									
Midwestern State U.	421	ne	ne	ne	480	0	99	381	0	0									
Southeastern Louisiana U.	422	768	572	422	473	0	337	136	0	0									
Appalachian State U.	423	809	649	486	465	27	345	64	29	0									
Winthrop U.	423	281	235	359	465	0	64	401	0	0									
Sul Ross State U.	425	439	504	330	463	0	0	0	463	0									
Saint Joseph's U.	426	51	103	116	460	0	460	0	0	0									
CUNY, York C.	427	ne	ne	340	450	0	450	0	0	0									
Albany State U.	428	764	509	737	445	0	143	0	270	32									
Harvey Mudd C.	429	162	178	323	444	0	444	0	0	0									
SUNY, C. Brockport	429	622	667	360	444	0	291	0	153	0									
Swarthmore C.	431	342	379	468	439	0	439	0	0	0									
California State U., San Bernardino	432	1,088	1,034	1,055	435	346	89	0	0	0									
California State U., Sacramento	433	17	279	294	434	0	125	0	309	0									
Calvin U.	434	301	426	449	431	i	0	i	431	i	0	i	0	i	0	i			
SUNY, C. Plattsburgh	435	146	681	373	429	0	0	429	0	0									
Elizabeth City State U.	436	0	1	ne	428	0	428	0	0	0									
Biola U.	437	367	i	382	i	410	i	423	i	0	i	183	i	240	i	0	i	0	i
Florida Institute of Technology	437	1,238	878	965	423	0	423	0	0	0									
Philadelphia C. of Osteopathic Medicine	439	260	260	346	422	0	422	0	0	0									

TABLE 42

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020									
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec				
Bowie State U.	440	164	75	122	414	0	414	0	0	0				
West Virginia School of Osteopathic Medicine	440	ne	ne	ne	414	0	52	362	0	0				
Johnson C. Smith U.	442	440	380	362	412	0	0	246	76	90				
Austin Peay State U.	443	157	328	88	410	0	49	0	361	0				
West Chester U. Pennsylvania	443	462	309	540	410	0	337	73	0	0				
West Texas A&M U.	445	466	382	313	409	98	0	0	311	0				
Fayetteville State U.	446	909	1,354	1,236	408	0	408	0	0	0				
Ithaca C.	446	ne	ne	ne	408	0	132	276	0	0				
U. Massachusetts, central office	448	267	246	198	403	0	0	403	0	0				
U. Wisconsin-La Crosse	449	825	774	492	402	0	402	0	0	0				
Northern Illinois U.	450	826	883	601	401	0	176	200	25	0				
Claremont McKenna C.	451	389	364	337	396	0	396	0	0	0				
Williams C.	451	365	312	413	396	i	0	i	396	i	0	i		
CUNY, New York City C. of Technology	453	ne	618	487	394	0	394	0	0	0				
Eastern Washington U.	454	873	580	484	391	0	155	0	176	60				
Fort Hays State U.	455	ne	ne	322	388	0	388	0	0	0				
Gallaudet U.	456	1,376	811	408	383	0	0	383	0	0				
Wesleyan U.	457	966	682	954	382	0	382	0	0	0				
Pennsylvania State U., Harrisburg	458	2	76	25	381	2	76	303	0	0				
California State U., Chico	459	311	395	458	380	210	170	0	0	0				
Eastern Kentucky U.	460	482	498	547	378	0	334	44	0	0				
CUNY, C. Staten Island	461	479	145	i	177	0	377	0	0	0				
Towson U.	462	326	388	503	374	0	361	13	0	0				
Villanova U.	463	844	435	338	358	0	333	25	0	0				
U. Central Arkansas	464	417	285	263	357	0	242	115	0	0				
Furman U.	465	329	376	328	356	0	309	39	0	8				
Lipscomb U.	466	ne	ne	ne	353	i	0	i	150	i	203	i	0	i
Dine C.	467	ne	1,238	1,074	347	19	0	328	0	0				
Providence C.	467	503	543	469	347	0	347	0	0	0				
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	469	206	201	191	342	0	297	45	0	0				
Indiana State U.	470	302	430	502	339	0	327	12	0	0				

TABLE 42

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Montana Technological U.	470	316	483	478	339	0	339	0	0	0
Southern U. and A&M C., Baton Rouge	472	223	352	401	336	122	128	0	86	0
Mount Holyoke C.	473	800	20	87	333	0	333	0	0	0
C. New Jersey	474	368	352	ne	328	0	328	0	0	0
U. Texas of the Permian Basin	474	0	0	ne	328	0	328	0	0	0
Marshall B. Ketchum U.	476	368	i 354	i 336	i 323	i 0	i 0	i 323	i 0	i 0
CUNY, Medgar Evers C.	477	647	619	595	314	0	309	5	0	0
DePaul U.	478	397	404	299	313	0	264	0	0	49
U. North Florida	479	309	390	307	310	0	310	0	0	0
Hofstra U.	480	285	311	360	308	0	308	0	0	0
Pittsburg State U.	481	84	155	297	306	0	178	67	61	0
Whitman C.	482	ne	ne	338	302	0	302	0	0	0
Trinity U.	483	100	115	95	296	0	296	0	0	0
U. Tulsa	484	357	349	357	295	0	267	28	0	0
U.S. Military Academy	484	671	720	578	295	0	295	0	0	0
Colby C.	486	656	613	581	289	0	243	0	0	46
Occidental C.	486	406	242	657	289	90	199	0	0	0
U. Central Oklahoma	488	231	270	291	288	i 0	i 229	i 59	i 0	i 0
U. Michigan, Dearborn	489	45	248	172	283	0	112	171	0	0
Hope C.	490	294	408	407	282	0	282	0	0	0
Troy U.	491	ne	ne	ne	269	12	157	0	100	0
Des Moines U.	492	732	732	657	265	261	4	0	0	0
Loyola Marymount U.	493	494	105	310	261	28	233	0	0	0
New Mexico Institute of Mining and Technology	494	56	226	387	255	0	255	0	0	0
U. Puerto Rico, Humacao	494	ne	233	286	255	0	229	0	26	0
U. Massachusetts, Dartmouth	496	844	903	621	253	0	253	0	0	0
Oberlin C.	497	197	265	815	252	0	252	0	0	0
Western Washington U.	498	500	270	249	243	0	243	0	0	0
U. of St. Thomas (MN)	499	47	174	196	242	0	242	0	0	0
Fort Lewis C.	500	ne	ne	538	240	0	187	0	21	32
U. South Florida, Saint Petersburg	501	153	333	275	236	0	6	0	230	0
Bucknell U.	502	317	i 305	245	235	i 0	i 235	i 0	i 0	i 0



TABLE 42

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. of the District of Columbia	502	941	916	1,083	235	235	0	0	0	0
Savannah State U.	504	450	581	320	234	0	22	152	0	60
Texas Christian U.	505	1,527	1,431	850	228	47	57	124	0	0
Morehead State U.	506	222	193	601	223	12	211	0	0	0
U. Puget Sound	506	325	ne	ne	223	0	223	0	0	0
Lamar U.	508	0	53	440	221	0	27	0	0	194
U. California, Office of the President	509	276	313	319	217	94	0	123	0	0
California State U., East Bay	510	ne	ne	ne	212	0	58	154	0	0
U. Ana G. Mendez, Carolina	511	782	391	ne	206	0	206	0	0	0
Minnesota State U., Mankato	512	155	95	136	205	205	0	0	0	0
Davidson C.	513	385	240	272	200	0	200	0	0	0
National Defense U.	513	0	0	0	200	0	200	0	0	0
Central Washington U.	515	287	254	206	198	0	179	0	19	0
Fairfield U.	516	547	1,015	78	191	0	191	0	0	0
SUNY, Oswego	517	194	220	218	190	0	190	0	0	0
Pomona C.	518	168	95	81	180	0	180	0	0	0
Sonoma State U.	519	ne	ne	ne	178	0	161	17	0	0
Eastern Connecticut State U.	520	8	17	169	177	0	177	0	0	0
Purdue U., Northwest	521	106	125	110	176	40	5	131	0	0
SUNY, Buffalo State	521	137	207	188	176	0	176	0	0	0
Salish Kootenai C.	523	116	94	213	172	95	0	0	77	0
New Mexico Highlands U.	524	293	0	ne	170	0	115	0	55	0
Rhode Island School of Design	524	0	174	177	170	0	0	0	170	0
Merrimack C.	526	ne	146	ne	168	0	0	168	0	0
Roger Williams U.	527	78	143	178	166	0	166	0	0	0
U. Washington, Tacoma	528	0	241	385	161	0	0	0	161	0
Christopher Newport U.	529	38	101	132	160	0	160	0	0	0
Coastal Carolina U.	530	198	277	268	157	0	98	0	0	59
California State U., Channel Islands	531	21	107	64	151	0	0	0	151	0
U. New Orleans	532	336	200	108	148	0	148	0	0	0
California Lutheran U.	533	ne	ne	107	144	0	144	0	0	0
Wheaton C., Wheaton	534	60	27	137	142	0	0	142	0	0

TABLE 42

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Southern Connecticut State U.	535	67	194	212	141	22	17	102	0	0
Seton Hall U.	536	850	724	810	138	0	138	0	0	0
CUNY, Lehman C.	537	886	892	0	136	0	136	0	0	0
Missouri U. of Science and Technology	538	178	152	143	130	0	130	0	0	0
U. Northern Iowa	539	107	115	122	129	94	35	0	0	0
Northern Michigan U.	540	60	89	184	127	0	30	0	97	0
St. Cloud State U.	541	529	312	386	126	0	126	0	0	0
Texas A&M International U.	542	1,514	1,814	1,710	123	0	0	123	0	0
Macalester C.	543	210	79	108	121	0	121	0	0	0
Pepperdine U.	543	193	279	303	121	0	121	0	0	0
Morehouse C.	545	126	119	116	120	0	120	0	0	0
U. Michigan, Flint	546	45	8	9	118	0	0	118	0	0
CUNY, Baruch C.	547	148	261	284	117	0	117	0	0	0
Purdue U., Fort Wayne	547	284	448	122	117	0	117	0	0	0
U. Wisconsin-Platteville	547	116	ne	118	117	59	41	0	17	0
Azusa Pacific U.	550	134	111	49	116	0	0	116	0	0
Norfolk State U.	551	163	53	108	114	0	114	0	0	0
U. Wisconsin-River Falls	552	66	95	ne	110	64	46	0	0	0
Haverford C.	553	273	292	133	109	0	109	0	0	0
Northwest Indian C.	554	ne	1,164	104	103	103	0	0	0	0
William Paterson U.	554	57	23	32	103	0	81	0	22	0
St. Bonaventure U.	556	ne	ne	ne	102	0	102	0	0	0
U. Hartford	557	97	10	38	101	0	0	101	0	0
Bryn Mawr C.	558	382	298	212	100	0	100	0	0	0
Dickinson C.	559	196	ne	187	97	0	29	0	68	0
U. Southern Maine	560	97	131	28	94	1	60	22	11	0
U. North Georgia	561	0	2	92	91	0	16	67	8	0
CUNY, Graduate Center	562	46	34	46	87	0	87	0	0	0
Seattle U.	563	114	138	116	86	0	86	0	0	0
Stockton U.	564	ne	138	50	85	46	39	0	0	0
U. of Mary Washington	564	ne	7	64	85	0	85	0	0	0
Colgate U.	566	363	293	246	84	0	84	0	0	0

TABLE 42

## Federally financed higher education R&amp;D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
CUNY, system office	566	0	0	3	84	0	84	0	0	0
Carleton C.	568	11	42	108	82	0	82	0	0	0
C. Wooster	569	183	193	110	81	5	76	0	0	0
California State U., Dominguez Hills	569	85	236	162	81	0	81	0	0	0
Central Connecticut State U.	571	0	ne	31	73	0	73	0	0	0
California State U., Bakersfield	572	447	396	92	70	0	70	0	0	0
Oregon Institute of Technology	573	189	i 59	90	i 67	0	0	0	67	0
U. San Diego	574	40	68	44	65	0	31	34	0	0
SUNY, Geneseo	575	37	80	150	58	0	58	0	0	0
New Jersey City U.	576	394	805	665	57	0	57	0	0	0
Roseman U. of Health Sciences	577	0	18	37	i 56	0	0	56	0	0
Alfred U.	578	20	18	108	52	52	0	0	0	0
Lafayette C.	579	0	50	80	50	0	50	0	0	0
Citadel Military C. South Carolina	580	ne	ne	ne	49	0	49	0	0	0
Connecticut C.	581	333	192	95	48	0	48	0	0	0
CUNY, John Jay C. of Criminal Justice	581	203	500	156	48	7	39	2	0	0
Dakota State U.	581	13	0	0	48	0	48	0	0	0
Liberty U.	584	ne	ne	385	44	0	44	0	0	0
Desert Research Institute	585	208	246	188	43	0	43	0	0	0
Benedict C.	586	136	101	139	42	0	21	0	21	0
St. Olaf C.	587	181	97	68	40	40	0	0	0	0
Alaska Pacific U.	588	54	100	216	38	38	0	0	0	0
Willamette U.	589	460	368	143	35	0	35	0	0	0
Salisbury U.	590	500	77	4	32	0	32	0	0	0
U. Wisconsin-Eau Claire	591	39	30	35	30	0	30	0	0	0
Florida Polytechnic U.	592	ne	ne	6	29	0	29	0	0	0
Grinnell C.	592	339	221	41	29	0	29	0	0	0
Suffolk U.	592	10	i ne	ne	29	0	29	0	0	0
Weber State U.	595	ne	ne	ne	28	0	28	0	0	0
Hamilton C.	596	0	12	51	26	0	26	0	0	0
Texas A&M U.-Commerce	596	154	91	15	26	18	8	0	0	0
Bradley U.	598	55	53	36	20	0	20	0	0	0

TABLE 42

**Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Colorado C.	598	99	51	115	20	0	20	0	0	0
U. Houston-Clear Lake	598	180	179	9	20	0	20	0	0	0
Columbus State U.	601	ne	ne	ne	18	0	18	0	0	0
Embry-Riddle Aeronautical U.	602	0	0	92	17	0	0	0	0	17
Elon U.	603	46	0	0	16	0	0	16	0	0
Jacksonville State U.	603	12	i	11	16	0	16	0	0	0
Vassar C.	603	300	i	60	13	0	16	0	0	0
Pennsylvania State U., Behrend	606	27	15	17	15	0	15	0	0	0
La Salle U.	607	ne	ne	ne	14	0	0	14	0	0
Gettysburg C.	608	46	51	60	13	0	13	0	0	0
Union C., Schenectady	608	23	29	14	13	0	13	0	0	0
New School	610	0	9	0	12	0	0	12	0	0
Manhattan C.	611	ne	ne	9	10	0	0	0	0	10
U. New Haven	612	27	56	30	9	0	9	0	0	0
Kettering U.	613	0	19	21	4	0	4	0	0	0
La Sierra U.	613	23	43	32	4	0	4	0	0	0
Stevens Institute of Technology	615	97	83	33	3	0	0	0	0	3
Northwestern State U. Louisiana	616	0	4	34	1	0	0	1	0	0
All other surveyed institutions	-	312,907	359,028	28,754	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.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$35,811 thousand in federally financed R&D expenditures in life sciences in FY 2020.

<sup>b</sup> 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.

<sup>c</sup> 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.