

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
All institutions	-	4,294,662	4,636,624	4,863,072	873,015	209,159	1,520,025	540,935	255,618	285,714	159,452	1,019,154
U. Pennsylvania	1	126,607	137,640	137,448	75,828	5,222	19,993	8,913	14,634	0	3,099	9,759
Harvard U.	2	90,570	106,759	110,578	17,433	1,491	60,198	8,916	20,707	0	1,833	0
U. Michigan, Ann Arbor	3	95,604	107,516	104,485	13,015	2,016	11,100	25,955	6,683	7,366	3,655	34,695
New York U.	4	95,415	85,597	89,471	7,113	1	34,363	19,281	9,428	12,030	1,928	5,327
U. Wisconsin-Madison	5	88,152	91,550	88,107	11,470	4,135	25,084	14,555	3,258	1,895	1,938	25,772
U. Washington, Seattle	6	77,578	71,393	77,934	870	10,824	38,163	1,114	1,324	13,534	474	11,631
U. Texas, Austin	7	53,590	62,214	76,182	8,264	11,285	19,902	10,049	1,027	5,969	361	19,325
Florida State U.	8	35,582	37,175	71,549	10,325	2,832	30,086	9,669	3,312	7,536	5,616	2,173
Syracuse U.	9	67,376	69,109	70,687	20,897	7,150	6,719	11,514	5,282	1,231	5,251	12,643
U. Kansas	10	49,179	69,552	70,001	148	25	54,547	586	4	10,195	280	4,216
U. South Carolina, Columbia	11	28,543	60,616	69,507	1,795	26,989	17,141	396	0	4,574	0	18,612
Massachusetts Institute of Technology	12	73,053	70,828	69,387	45,246	44	10,504	450	0	320	211	12,612
Georgia State U.	13	66,929	67,933	69,347	23,103	7,031	27,108	762	2,292	7,505	1,357	189
Arizona State U.	14	60,701	58,326	67,049	23,031	6,302	15,817	6,394	4,508	7,465	3,532	0
U. Virginia, Charlottesville	15	37,889	60,859	66,759	7,158	0	36,458	5,574	1,263	0	352	15,954
Purdue U., West Lafayette	16	89,215	95,748	65,516	10,010	482	10,834	3,318	0	0	55	40,817
U. Georgia	17	51,857	62,476	62,627	21,203	3,719	10,565	9,094	4,246	1,872	5,443	6,485
U. South Florida, Tampa	18	55,673	50,742	60,357	10,687	2,229	22,746	5,342	0	1,053	3,073	15,227
U. California, Los Angeles	19	39,137	75,491	56,841	13,121	3,639	27,472	6,525	2,838	0	3,006	240
Clemson U.	20	48,540	53,097	53,533	1,198	48	3,980	215	0	0	30	48,062
Ohio State U.	21	59,628	56,586	52,848	2,873	849	21,588	2,795	795	2,852	885	20,211
U. Utah	22	61,339	18,098	52,419	646	1,872	1,370	863	18	8,146	0	39,504
U. California, Berkeley	23	46,005	48,815	51,347	14,871	6,108	8,166	3,693	17,750	0	759	0
Washington State U.	24	46,294	45,834	50,186	7,896	6,491	25,400	2,826	582	267	405	6,319
U. Maryland <sup>a</sup>	25	na	na	49,324	3,177	429	3,544	3,874	3,026	22,836	564	11,874
U. Florida	26	34,949	33,731	47,868	3,605	2,858	19,063	3,476	336	5	1,431	17,094
Texas Tech U.	27	46,584	46,242	46,606	13,852	3,188	16,679	4,084	1,926	0	3,309	3,568
Vanderbilt U. and Vanderbilt U. Medical Center	28	30,750	36,492	46,559	11	0	41,757	1,733	270	0	1,749	1,039
Stanford U.	29	54,290	51,283	45,427	380	1,118	41,889	1,108	624	6	4	298

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Michigan State U.	30	41,306	41,331	43,690	6,739	3,206	16,860	4,300	0	1,433	390	10,762
U. Minnesota, Twin Cities	31	40,395	38,885	42,900	16,395	550	13,445	4,002	1,594	1,164	335	5,415
Texas A&M U., College Station and Health Science Center	32	36,374	39,987	40,781	9,401	270	25,640	1,284	565	1	185	3,435
Cornell U.	33	21,312	37,881	40,724	5,472	3,919	498	2,104	772	0	2,780	25,179
U. Southern California	34	38,794	36,952	40,541	2,053	5,692	9,384	2,822	1,469	9,717	3,613	5,791
U. North Carolina, Chapel Hill	35	40,528	42,095	40,119	1,723	2,046	9,391	3,718	232	14,966	1,255	6,788
U. Central Florida	36	31,757	39,238	39,212	4,050	3,290	7,597	3,094	2,350	1,303	1,694	15,834
Dartmouth C. and Dartmouth Hitchcock Medical Center	37	30,807	35,976	38,177	16,074	0	432	19,673	0	0	1,388	610
Columbia U. in the City of New York	38	44,329	38,733	37,919	3,333	3,203	5,209	3,154	4,862	12,191	618	5,349
Indiana U., Bloomington	39	32,868	32,096	37,708	6,463	116	5,443	2,192	1,679	0	4,807	17,008
U. Illinois, Urbana-Champaign	40	39,443	42,725	36,643	1,415	168	5,841	3,988	1,143	3,108	918	20,062
Rutgers, State U. New Jersey, New Brunswick	41	47,930	39,914	36,055	1,959	1,082	11,369	3,011	0	3,934	2	14,698
Oklahoma State U., Stillwater	42	36,419	34,338	34,255	17,467	1,880	2,806	5,067	0	0	1,201	5,834
Florida International U.	43	30,861	30,432	34,110	8,689	1,353	12,427	5,253	1,615	217	1,540	3,016
U. Nebraska, Lincoln	44	31,455	32,892	32,276	10,560	1,123	2,925	6,848	2,875	0	2,491	5,454
Auburn U., Auburn	45	22,988	28,275	31,768	15,146	1,024	3,649	7,303	0	39	62	4,545
American U.	46	29,483	29,835	31,522	5,368	6,848	0	2,613	12,152	0	921	3,620
U. Arkansas, Fayetteville	47	21,866	29,469	31,265	5,139	115	15,502	2,507	2,133	227	373	5,269
Georgetown U.	48	24,371	29,289	30,064	9,982	405	869	7,336	10,605	0	0	867
U. West Florida	49	22,593	25,325	29,802	20,928	129	7,133	358	32	70	0	1,152
Northwestern U.	50	27,749	29,214	29,462	11,085	3,575	8,202	4,475	1,260	0	865	0
Texas State U.	51	32,262	34,878	29,114	944	0	8,094	1,047	16,659	1,790	0	580
Georgia Institute of Technology	52	18,698	32,719	29,091	1,983	1,455	6,125	135	58	0	829	18,506
U. Oregon	53	23,457	28,764	28,433	2,266	1,587	15,810	1,531	399	0	292	6,548
U. Notre Dame	54	28,762	29,524	28,384	6,923	0	58	9,759	552	0	608	10,484

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other	
U. Colorado Boulder	55	24,893	25,690	27,749	2,100	299	23,049	575	1,664	1	7	54	
U. Houston	56	19,636	18,941	26,489	2,199	199	4,430	1,252	379	5,374	107	12,549	
U. California, Irvine	57	22,105	27,315	26,186	5,125	4	13,720	6,211	498	0	588	40	
U. Tennessee, Knoxville	58	4,444	25,902	25,967	7,163	1,197	2,637	6,009	2,510	1,622	2,280	2,549	
U. Nevada, Las Vegas	59	13,212	21,089	25,668	5,370	897	3,959	3,326	4,247	527	2,980	4,362	
Pennsylvania State U., University Park and Hershey Medical Center	60	28,132	23,047	25,648	6,638	510	11,333	5,946	541	0	680	0	
Boston U.	61	22,606	48,341	25,392	5,800	1,017	8,399	2,443	3,711	3,330	144	548	
Virginia Commonwealth U.	62	24,637	23,433	24,766	75	11	20,002	2,139	0	1,320	182	1,037	
U. Iowa	63	27,818	27,720	24,544	5,043	428	9,138	2,738	1,221	958	276	4,742	
New Jersey Institute of Technology	64	40,830	37,784	24,431	5,516	0	7,424	369	0	0	0	11,122	
California Institute of Technology	65	19,601	27,996	24,373	0	44	0	10,425	0	0	0	13,904	
U. North Texas, Denton	66	8,346	6,294	24,168	8,182	1,280	3,928	4,069	0	24	6,565	120	
U. Massachusetts, Boston	67	32,090	27,608	23,020	1,390	8	20,078	831	0	461	60	192	
U. Texas, Arlington	68	15,132	18,431	22,994	2,254	137	1,188	1,300	0	9,435	375	8,305	
George Mason U.	69	13,916	23,722	22,214	1,469	2,958	3,987	1,259	11,611	4	184	742	
U. Mississippi	70	19,868	20,131	21,334	4,853	795	1,886	5,753	3,427	425	1,980	2,215	
Emory U.	71	18,742	19,245	21,085	1,664	265	1,989	3,777	719	0	2,322	10,349	
Temple U.	72	19,229	22,463	21,084	2,126	197	9,904	465	1,536	1,781	955	4,120	
Washington U., Saint Louis	73	14,457	18,872	20,610	229	4	450	587	0	19,300	0	40	
George Washington U.	74	19,514	18,627	20,601	5,363	15	9,894	1,167	1,516	0	228	2,418	
Illinois State U.	75	15,422	15,898	20,498	109	1	18,401	20	0	65	27	1,875	
SUNY, U. Albany	76	15,994	21,728	19,918	4,200	1,010	5,280	4,642	0	2,399	794	1,593	
SUNY, U. Buffalo	77	15,205	16,979	19,538	2,798	1	14,929	554	358	0	256	642	
U. Oklahoma, Norman and Health Science Center	78	21,612	20,775	19,304	544	849	1,025	449	53	96	196	16,092	
U. Massachusetts, Amherst	79	16,386	17,645	19,292	1,384	657	9,103	2,019	91	0	1,483	4,555	

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(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
U. Arizona	80	12,235	15,028	18,980	4,760	265	3,691	1,014	1,129	0	6,738	1,383
San Diego State U.	81	18,325	18,319	18,231	3,914	822	3,671	5,208	0	1,279	1,571	1,766
North Carolina State U.	82	11,471	11,990	17,976	404	0	13,411	4,161	0	0	0	0
U. Illinois, Chicago	83	20,419	18,436	17,540	344	272	6,891	5,045	0	1,607	383	2,998
Boston C.	84	14,263	14,229	17,188	74	61	11,045	399	551	4,419	85	554
Tufts U.	85	6,514	15,979	16,726	49	0	2,979	1,126	0	13	72	12,487
U. Cincinnati	86	28,014	15,806	16,399	2,869	131	4,267	2,739	36	0	153	6,204
Kansas State U.	87	12,965	16,433	16,378	2,360	468	3,121	2,286	0	0	1,330	6,813
Colorado State U., Fort Collins	88	10,183	18,004	16,225	315	865	2,955	208	0	124	49	11,709
U. Missouri, Columbia	89	10,985	10,583	16,030	3	1,809	8,764	363	21	902	52	4,116
Iowa State U.	90	13,484	17,316	15,976	4,442	769	5,391	3,803	0	0	761	810
Yale U.	91	20,515	17,543	15,669	3,412	0	646	6,288	1,251	0	248	3,824
U. Nevada, Reno	92	6,713	17,377	15,421	4,912	24	3,724	1,758	3,637	961	316	89
U. Alabama, Tuscaloosa	93	11,131	12,081	15,285	6,147	573	3,889	449	0	2,966	505	756
Wichita State U.	94	13,023	14,221	15,177	4	2	59	130	0	0	0	14,982
Southern Methodist U.	95	8,751	9,635	15,059	5,888	0	6,253	1,083	805	0	438	592
Princeton U.	96	12,172	13,710	15,039	0	0	866	8,732	0	21	3,662	1,758
U. Denver	97	3,962	5,652	14,909	33	126	5,465	7	176	9,023	79	0
U. Texas, El Paso	98	10,673	10,208	14,604	4,309	104	2,151	1,102	210	947	230	5,551
Tulane U.	99	13,655	13,481	14,489	285	119	6	2,293	4,927	0	422	6,437
Montana State U., Bozeman	100	11,401	10,633	14,452	410	328	1,874	513	0	0	219	11,108
Kent State U.	101	14,590	16,089	14,321	3,532	1,229	4,685	3,471	0	28	481	895
U. California, Santa Barbara	102	12,479	11,815	13,681	8,214	495	3,118	1,686	33	0	114	21
Fordham U.	103	12,378	13,308	13,664	3,110	209	1,004	3,520	3,635	691	161	1,334
Duke U.	104	13,003	13,664	13,589	10,643	0	150	1,522	670	0	286	318
Carnegie Mellon U.	105	14,955	13,165	13,364	8,571	0	0	3,916	0	0	767	110
U. Texas, Dallas	106	8,065	12,365	13,101	8,159	0	843	4,099	0	0	0	0
U. California, Davis	107	11,878	14,057	13,098	211	387	6,824	1,302	799	0	3,535	40
U. Connecticut	108	10,471	12,859	12,730	1,792	259	3,860	2,758	58	1,966	965	1,072
U. Louisiana, Lafayette	109	22,176	21,901	12,586	1,131	1,841	6,350	2,474	0	0	790	0
U. Alabama, Birmingham	110	8,200	13,147	12,502	98	0	3,918	10	0	200	0	8,276

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
U. Pittsburgh, Pittsburgh	111	9,508	10,751	12,205	1,291	8	5,678	1,369	59	1,869	111	1,820
U. Kentucky	112	10,440	10,061	12,197	3,838	205	921	234	61	1,197	638	5,103
U. Louisville	113	8,682	8,222	11,740	2,871	19	2,303	141	861	3,336	65	2,144
U. Memphis	114	8,503	13,478	11,475	3,437	347	2,703	863	703	1,028	1,141	1,253
U. New Hampshire	115	11,783	13,052	11,354	2,443	8	6,929	775	105	974	0	120
Portland State U.	116	12,369	10,385	11,319	21	48	2,717	286	0	3,756	7	4,484
U. Southern Mississippi	117	11,890	11,551	11,215	49	1	63	769	0	5	8	10,320
Brown U.	118	11,037	11,149	11,071	79	0	4,110	3,832	0	1	274	2,775
U. Chicago	119	13,332	11,202	10,908	1,106	0	4,015	1,495	78	3,541	0	673
SUNY, Binghamton U.	120	9,354	8,834	10,851	1,673	51	1,802	3,912	0	488	773	2,152
Kennesaw State U.	121	1,782	3,208	10,186	4,720	189	2,305	2,232	0	198	542	0
U. North Dakota	122	10,865	9,804	9,995	1,196	409	2,619	1,911	851	308	716	1,985
Western Michigan U. and Homer Stryker M.D. School of Medicine	123	4,685	5,271	9,911	8	0	9,737	111	0	0	36	19
U. North Carolina, Greensboro	124	8,815	8,369	9,825	94	1	7,816	186	0	641	53	1,034
Virginia Polytechnic Institute and State U.	125	11,085	11,061	9,815	2,426	258	3,435	348	0	67	578	2,703
U. California, San Diego	126	7,185	9,025	9,578	1,231	1,230	2,742	2,437	0	0	1,360	578
Northeastern U.	127	7,522	10,165	9,513	850	514	2,822	595	1,724	0	287	2,721
Indiana U.-Purdue U., Indianapolis	128	6,273	6,231	9,485	1,697	115	1,482	1,159	26	1,703	449	2,854
CUNY, John Jay C. of Criminal Justice	129	8,196	8,417	9,309	0	0	0	2	9,083	0	0	224
U. Texas Rio Grande Valley	130	953	1,502	9,302	2,592	1,003	1,055	598	0	267	1,237	2,550
Louisiana State U., Baton Rouge	131	6,766	8,651	9,294	1,453	612	944	974	779	89	185	4,258
William & Mary	132	9,930	10,761	9,148	607	0	5,901	1,545	876	0	41	178
Wayne State U.	133	7,529	8,628	9,145	373	50	1,781	264	81	4,721	145	1,730
U.S. Air Force Academy	134	7,652	2,458	9,001	833	0	7,814	108	0	0	0	246
U. South Florida, Saint Petersburg	135	6,211	5,732	8,997	929	311	6,470	821	0	0	304	162
U. Baltimore	136	1,879	6,762	8,977	39	0	163	0	951	0	0	7,824

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
West Virginia U.	137	10,203	9,028	8,937	1,962	246	1,426	271	295	16	70	4,651
Marquette U.	138	6,342	7,848	8,921	330	913	345	981	1,358	0	5	4,989
Mississippi State U.	139	7,948	8,521	8,852	1,366	301	2,332	2,092	0	0	497	2,264
Rhode Island C.	140	8,070	8,511	8,671	913	0	7,275	1	0	482	0	0
U. Texas, San Antonio	141	6,020	6,490	8,607	2,581	55	5,032	377	0	99	0	463
Drexel U.	142	6,070	7,801	8,574	315	23	4,231	228	27	0	1,169	2,581
U. Montana, Missoula	143	935	4,467	8,419	804	163	2,779	1,367	711	2,539	0	56
U. Maine	144	754	884	8,292	1,381	859	1,162	1,890	0	341	639	2,020
Northern Illinois U.	145	6,585	4,315	8,233	421	4	700	103	165	0	0	6,840
Rochester Institute of Technology	146	5,700	5,734	8,226	93	0	5,580	212	0	0	1,897	444
Ohio U.	147	3,771	3,785	8,154	2,072	622	1,003	622	0	1,718	355	1,762
East Carolina U.	148	566	3,008	7,999	2,209	70	2,195	1,236	0	167	98	2,024
U. Rhode Island	149	6,674	6,219	7,731	207	1,433	2,809	999	162	0	0	2,121
Old Dominion U.	150	13,355	8,574	7,567	666	0	6,683	176	0	0	3	39
U. Massachusetts, Lowell	151	8,942	7,206	7,226	2,397	0	2,084	1,739	0	0	599	407
Chapman U.	152	2,058	4,246	7,094	358	351	3,636	416	858	0	5	1,470
Baylor U.	153	4,348	6,647	7,013	2,357	108	471	2,150	0	1,233	134	560
Bowling Green State U.	154	4,959	8,421	6,914	122	539	5,229	446	0	0	491	87
U. Colorado Denver and Anschutz Medical Campus	155	7,739	7,782	6,913	145	404	4,952	271	0	326	0	815
U. North Florida	156	1,417	4,328	6,902	3,529	28	2,989	118	0	0	168	70
Naval Postgraduate School	157	7,982	6,662	6,801	3,584	0	1,943	0	0	0	0	1,274
North Dakota State U.	158	3,889	5,162	6,658	2,179	586	1,184	1,027	0	0	688	994
U. New Mexico	159	9,974	5,922	6,386	798	1,108	2,466	463	602	352	15	582
Louisiana Tech U.	160	5,662	6,566	6,383	4,980	0	327	428	0	0	529	119
Brigham Young U., Provo	161	6,615	6,479	6,307	2,011	0	2,186	1,706	257	0	0	147
Seton Hall U.	162	6,422	5,812	6,246	0	0	6,246	0	0	0	0	0
Cleveland State U.	163	6,244	6,438	6,223	2,567	0	2,160	18	965	34	0	479
Claremont Graduate U.	164	5,101	5,590	6,081	12	0	2,069	0	0	0	0	4,000
U. Puerto Rico, Rio Piedras	165	3,604	3,196	6,069	147	0	297	288	0	584	0	4,753

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Oregon State U.	166	6,175	5,749	5,895	6	0	35	75	0	0	0	5,779
Florida A&M U.	167	4,554	5,245	5,865	617	0	897	0	0	0	51	4,300
U. Idaho	168	4,062	6,012	5,756	908	131	3,076	123	32	0	51	1,435
William Paterson U.	169	1,420	5,765	5,698	1,053	0	1,760	2,347	0	0	538	0
U. Washington, Bothell	170	9,105	6,736	5,594	117	0	5,456	0	0	0	0	21
U. California, Riverside	171	4,327	5,793	5,509	85	0	2,721	1,358	0	0	48	1,297
Montclair State U.	172	1,790	3,015	5,470	1	0	1,384	0	0	25	0	4,060
Rice U.	173	3,965	4,479	5,438	846	0	2,381	1,857	0	0	143	211
Rutgers, State U. New Jersey, Newark	174	4,312	4,016	5,370	1,916	0	300	441	452	2	0	2,259
U. Delaware	175	6,973	6,632	5,335	38	24	5,115	158	0	0	0	0
Ball State U.	176	3,582	4,751	5,120	1,421	0	709	182	164	24	0	2,620
U. Alabama, Huntsville	177	4,984	4,886	4,920	2,606	197	1,103	684	0	0	321	9
Bryn Mawr C.	178	4,876	4,574	4,875	0	0	93	3,977	0	571	234	0
New Jersey City U.	179	3,842	4,956	4,796	235	0	620	525	0	395	237	2,784
CUNY, Hunter C.	180	4,777	3,950	4,705	0	24	2,022	736	0	1,874	49	0
Florida Atlantic U.	181	3,107	3,390	4,686	0	4	503	0	0	86	0	4,093
Villanova U.	182	3,848	4,354	4,612	1,762	79	386	1,964	236	0	29	156
U. California, Santa Cruz	183	4,354	4,317	4,503	0	73	608	2,850	0	0	972	0
Salisbury U.	184	4,052	4,252	4,498	832	74	1,534	135	3	1,239	79	602
San Jose State U.	185	2,598	3,114	4,491	4,018	8	18	126	0	111	72	138
U. North Carolina, Charlotte	186	1,907	5,018	4,490	1,036	21	1,650	497	0	791	26	469
Indiana U. Pennsylvania	187	493	3,976	4,482	1,639	321	623	1,240	0	0	28	631
Florida Gulf Coast U.	188	4,137	3,373	4,437	1,085	0	3,062	7	11	0	0	272
Rensselaer Polytechnic Institute	189	8,264	6,635	4,413	622	89	0	0	0	0	322	3,380
Naval War C.	190	0	0	4,381	0	0	0	0	0	0	0	4,381
U.S. Military Academy	191	6,370	7,269	4,333	0	0	0	237	0	0	0	4,096
Boise State U.	192	2,713	3,423	4,296	518	69	2,534	348	0	50	640	137
U. Central Oklahoma	193	4,778	3,876	4,253	1	0	4,111	0	0	0	0	141
New School	194	1,617	5,494	4,242	717	85	486	1,015	0	0	18	1,921
Saint Louis U.	195	2,759	4,467	4,196	10	5	1,849	1,725	117	463	23	4
Johns Hopkins U. <sup>b</sup>	196	5,666	4,881	4,156	0	0	0	4,096	0	0	0	60

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Brandeis U.	197	5,692	4,889	4,087	0	0	555	0	191	0	241	3,100
North Carolina Agricultural and Technical State U.	198	2,094	3,426	4,042	1,213	0	1,060	0	0	16	0	1,753
St. Edward's U.	199	2,988	7,618	3,837	630	575	1,830	110	244	55	130	263
Duquesne U.	200	2,801	3,299	3,771	981	234	1,011	599	354	0	18	574
SUNY, Stony Brook U.	201	3,182	4,067	3,765	170	892	753	1,190	0	365	315	80
James Madison U.	202	140	332	3,758	1,013	120	219	523	115	458	156	1,154
Wellesley C.	203	4,837	6,634	3,734	0	0	139	133	0	162	116	3,184
U. Maryland, Baltimore County	204	480	1,123	3,714	0	3	2,161	525	76	34	188	727
Texas A&M U.-Corpus Christi	205	2,349	2,176	3,648	31	0	1,409	27	0	0	5	2,176
California State U., San Bernardino	206	2,605	5,167	3,643	11	14	3,589	5	0	3	15	6
Michigan Technological U.	207	2,948	3,484	3,590	1,560	0	238	1,061	0	0	321	410
U. South Dakota	208	3,528	3,775	3,572	934	217	621	0	448	103	438	811
Utah State U.	209	2,568	3,403	3,441	849	0	1,057	242	9	0	29	1,255
California State U., Sacramento	210	3,459	3,412	3,265	825	0	1,582	327	0	80	103	348
Sam Houston State U.	210	250	1,530	3,265	206	13	2,127	43	0	0	34	842
Middle Tennessee State U.	212	622	3,397	3,199	43	0	1,184	1,732	0	65	0	175
Case Western Reserve U.	213	2,413	4,062	3,142	657	0	1,766	213	309	0	7	190
Miami U.	214	1,757	2,538	3,100	189	186	2,005	61	0	26	39	594
Colorado School of Mines	215	1,302	2,084	3,087	0	0	8	7	0	0	0	3,072
West Chester U. Pennsylvania	216	3,991	3,093	2,990	723	68	473	499	0	281	184	762
Loyola Marymount U.	217	2,996	3,791	2,950	534	122	422	620	727	0	257	268
North Carolina Central U.	218	2,430	3,643	2,875	1	0	966	0	919	76	98	815
Azusa Pacific U.	219	4,100	4,173	2,867	306	58	584	1,376	0	162	173	208
U. Wisconsin-Milwaukee	220	6,164	2,186	2,823	312	3	715	209	0	567	162	855
Lehigh U.	221	3,217	2,825	2,771	71	0	2,444	138	0	0	0	118
Texas A&M U.-Kingsville	222	3,273	2,707	2,731	15	0	2,096	1	0	0	0	619



TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
U. Hawaii, Manoa	223	3,727	3,417	2,712	100	168	1,731	135	72	180	194	132
U. New Orleans	224	2,503	2,289	2,615	234	0	423	1,006	0	0	467	485
Southern Illinois U., Edwardsville	225	1,834	1,506	2,575	715	0	121	905	0	0	0	834
U. Nebraska, Omaha	226	1,424	1,956	2,527	408	0	1,241	29	3	0	4	842
Prairie View A&M U.	227	527	2,512	2,480	6	17	442	0	2,015	0	0	0
Fayetteville State U.	228	2,603	2,479	2,471	822	435	636	0	0	170	249	159
Eastern Michigan U.	229	2,814	2,963	2,469	584	13	314	865	147	180	360	6
Wake Forest U.	230	351	380	2,439	0	341	832	858	1	0	286	121
C. Charleston	231	2,187	1,925	2,404	324	28	640	398	0	0	246	768
U. North Carolina, Asheville	232	445	773	2,376	22	113	633	1,274	0	224	0	110
U. Oklahoma, Tulsa	233	1,820	2,365	2,370	0	0	2,361	0	0	0	0	9
U. Toledo	234	3,333	2,136	2,351	673	0	631	10	0	251	54	732
California State U., Northridge	235	2,643	2,582	2,337	351	0	870	322	0	0	0	794
U. San Diego	236	1,546	2,151	2,294	0	0	967	639	460	0	0	228
Erikson Institute	237	3,965	3,583	2,279	0	0	2,279	0	0	0	0	0
U. California, Merced	237	2,645	2,473	2,279	0	0	0	521	0	0	0	1,758
Jacksonville State U.	239	2,757	2,628	2,262	0	0	2,245	0	0	17	0	0
Texas Christian U.	240	2,925	2,529	2,261	50	150	1,917	18	0	27	99	0
Wesleyan U.	241	1,356	2,133	2,244	0	274	673	1,040	0	0	196	61
Virginia State U.	242	2,672	1,999	2,234	62	0	2,172	0	0	0	0	0
San Francisco State U.	243	3,228	3,062	2,221	650	131	918	308	0	1	111	102
Purdue U., Northwest	244	4,004	3,367	2,161	499	0	1,067	6	0	0	328	261
U. Alaska, Fairbanks	245	2,630	1,928	2,150	486	0	1,092	21	0	0	0	551
Pacific U.	246	2,471	2,108	2,146	3	0	1,788	9	0	0	60	286
Gallaudet U.	247	543	571	2,127	0	1,119	108	835	0	0	48	17
CUNY, Lehman C.	248	865	899	2,096	0	0	0	0	0	0	0	2,096
U. Miami	249	2,567	1,972	2,095	50	21	1,070	295	596	0	63	0
Western Washington U.	250	3,720	2,163	2,087	7	16	319	850	0	0	700	195
National Defense U.	251	570	2,057	2,076	0	0	2,076	0	0	0	0	0
Worcester Polytechnic Institute	252	1,706	1,590	2,056	698	0	1,129	52	0	0	0	177

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Texas A&M International U.	253	1,771	2,006	2,034	70	0	92	15	2	0	86	1,769
Loyola U., Chicago	254	1,668	2,283	2,013	4	7	53	200	88	711	0	950
Franklin and Marshall C.	255	1,509	1,858	1,949	131	0	321	237	0	0	91	1,169
U. Tennessee, Chattanooga	256	1,538	1,751	1,943	1,639	54	124	117	0	0	9	0
Grambling State U.	257	4,357	1,638	1,909	0	9	413	0	33	1,195	0	259
Southern Connecticut State U.	258	1,012	1,079	1,871	596	0	250	607	0	107	294	17
Babson C.	259	1,768	693	1,845	1,845	0	0	0	0	0	0	0
Grinnell C.	259	1,779	1,775	1,845	0	0	307	939	0	0	467	132
U. Missouri, Kansas City	261	2,317	2,279	1,843	150	9	498	268	31	115	42	730
St. Cloud State U.	262	1,912	2,031	1,840	21	24	1,241	13	0	0	33	508
Marshall U.	263	1,925	2,007	1,799	269	0	1,050	0	0	0	0	480
Creighton U.	264	2,005	1,691	1,761	434	62	429	272	163	85	58	258
U. Houston-Downtown	265	1,286	1,555	1,735	3	0	1,596	30	0	0	0	106
U. Rochester	266	1,079	1,573	1,685	159	0	1,061	91	0	0	2	372
Lamar U.	267	524	279	1,652	237	9	381	59	0	440	13	513
Tarleton State U.	268	643	543	1,605	451	49	490	296	295	24	0	0
Bucknell U.	269	571	630	1,564	64	0	2	797	0	0	57	644
Georgia Southern U.	270	863	828	1,532	1,375	0	23	13	91	0	0	30
U. North Georgia	271	1,733	1,921	1,517	8	21	805	657	0	8	18	0
U. San Francisco	271	1,593	1,572	1,517	283	45	869	99	9	0	39	173
Oregon Institute of Technology	273	58	18	1,506	1,317	189	0	0	0	0	0	0
Central Michigan U.	274	3,131	2,210	1,495	443	87	61	11	0	0	14	879
Niagara U.	275	1,291	1,878	1,486	36	10	950	407	0	11	72	0
U. Massachusetts, Dartmouth	276	1,766	2,090	1,482	295	29	588	511	0	0	59	0
Texas Woman's U.	277	943	1,557	1,481	6	0	1,251	1	0	114	0	109
U. Massachusetts, central office	278	1,500	1,990	1,479	0	0	1,417	0	0	24	0	38
U. North Carolina, Wilmington	279	2,015	1,897	1,476	562	0	657	0	0	43	105	109
Pace U.	280	2,181	2,134	1,471	182	4	1,080	93	96	0	0	16

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Williams C.	281	834	1,134	1,453	0	0	0	738	0	0	105	610
U. Missouri, Saint Louis	282	1,631	1,558	1,443	550	97	445	195	0	114	30	12
CUNY, City C.	283	889	847	1,433	0	0	319	6	0	0	36	1,072
New Mexico State U.	284	2,243	2,277	1,424	4	24	1,101	134	0	0	0	161
U. Dayton	285	8,007	3,365	1,419	98	15	650	84	0	312	20	240
U. Northern Colorado	286	1,318	1,367	1,414	300	3	864	15	0	0	81	151
Mills C.	287	3,285	1,806	1,413	0	0	1,413	0	0	0	0	0
Western Kentucky U.	288	1,752	1,614	1,409	331	95	447	393	0	51	80	12
Swarthmore C.	289	926	1,231	1,408	106	0	116	232	0	0	954	0
Elon U.	290	1,277	1,182	1,383	459	257	103	303	0	0	235	26
Lewis and Clark C.	291	1,533	1,404	1,380	0	7	135	37	1,197	0	4	0
La Sierra U.	292	1,974	2,080	1,368	195	0	843	134	0	0	0	196
U. South Florida, Sarasota-Manatee	293	1,451	1,496	1,354	847	0	126	114	0	82	0	185
U. Central Arkansas	294	1,146	1,367	1,327	0	2	260	0	0	0	0	1,065
Rutgers, State U. New Jersey, Camden	295	2,191	1,214	1,322	4	0	662	30	187	0	9	430
U. Colorado Colorado Springs	296	1,069	1,246	1,280	662	0	173	0	100	0	0	345
CUNY, Graduate Center	297	2,284	636	1,236	0	0	516	80	0	0	0	640
Stevens Institute of Technology	298	1,126	1,495	1,218	240	0	27	2	0	0	346	603
Hamilton C.	299	1,318	916	1,209	0	0	361	789	0	0	57	2
California State U., Long Beach	300	1,812	4,472	1,205	8	57	616	143	0	74	68	239
Purdue U., Fort Wayne	301	1,937	1,544	1,196	0	0	9	173	0	0	10	1,004
Colorado C.	302	869	1,266	1,180	0	0	189	217	0	0	471	303
Saint Joseph's U.	303	1,093	896	1,163	760	13	290	80	0	0	20	0
U. Nebraska, central administration	303	ne	639	1,163	0	77	0	0	148	0	0	938
California State U., Fullerton	305	620	624	1,156	319	105	200	250	0	4	35	243
Northern Arizona U.	306	681	794	1,151	56	13	983	1	0	98	0	0
California State U., San Marcos	307	1,587	1,163	1,149	2	0	220	0	0	0	0	927

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other	
Pepperdine U.	308	1,499	1,263	1,145	113	31	505	63	194	0	42	197	
Franklin W. Olin C. of Engineering	309	252	378	1,121	0	0	1,121	0	0	0	0	0	
Austin Peay State U.	310	1,179	1,453	1,116	0	465	0	569	0	0	70	12	
Johnson C. Smith U.	311	1,627	1,043	1,114	0	249	200	249	0	0	8	408	
Texas Tech U., Health Sciences Center	312	1,110	1,035	1,113	0	0	1,041	0	0	0	0	72	
Colorado State U., Pueblo	313	ne	ne	1,099	11	0	70	0	0	0	0	1,018	
Seattle U.	314	446	1,167	1,095	2	15	739	83	197	0	0	59	
Tougaloo C.	315	778	313	1,087	0	0	362	0	0	0	0	725	
Catholic U. of America	316	945	1,228	1,082	0	0	0	309	231	129	0	413	
U. Alaska, Anchorage	317	2,215	1,842	1,069	141	0	338	0	590	0	0	0	
Willamette U.	318	1,802	1,180	1,058	69	38	95	317	149	0	68	322	
Winthrop U.	319	973	1,142	1,043	6	0	775	31	0	129	5	97	
Bowie State U.	320	826	739	1,035	0	0	0	0	0	0	0	1,035	
U. of Mary Washington	320	ne	906	1,035	476	0	188	361	0	0	5	5	
Florida Institute of Technology	322	140	1,035	1,029	0	16	46	0	0	0	0	967	
Western U. of Health Sciences	323	447	1,077	1,015	0	0	1,015	0	0	0	0	0	
U.S. Army War C.	324	ne	ne	1,000	i	0	i	0	i	0	i	0	i
California State U., Bakersfield	325	901	944	979	122	0	584	267	0	0	5	1	
Texas A&M U.-Commerce	326	1,977	873	975	222	0	146	57	0	8	0	542	
Amherst C.	327	965	1,303	945	0	0	0	519	0	0	426	0	
Clarkson U.	328	968	1,147	936	619	115	56	129	0	0	2	15	
Howard U.	328	1,155	1,373	936	0	163	107	0	230	436	0	0	
U. Akron	330	1,760	793	930	201	6	218	198	138	56	86	27	
U. Michigan, Flint	331	733	284	914	0	0	425	6	0	0	15	468	
Rowan U.	332	146	429	912	4	0	758	69	15	0	34	32	
U. Maryland Center for Environmental Science	332	587	738	912	0	4	908	0	0	0	0	0	
CUNY, system office	334	670	313	906	0	0	0	0	0	0	0	906	
DePaul U.	335	971	754	903	231	34	379	65	119	55	20	0	

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Tennessee State U.	336	1,861	1,326	860	17	0	717	0	0	0	0	126
U. Arkansas, Little Rock	337	783	1,088	841	11	0	721	0	74	0	0	35
Southeastern Louisiana U.	338	600	735	831	754	0	77	0	0	0	0	0
Eastern Connecticut State U.	339	458	512	788	232	86	0	246	0	0	224	0
U. Puerto Rico, Mayaguez	340	802	1,005	785	0	0	0	0	0	19	0	766
Northwestern State U. Louisiana	341	350	424	783	281	285	117	7	12	0	81	0
Southern U. and A&M C., Baton Rouge	342	489	639	779	54	0	509	0	0	1	0	215
Black Hills State U.	343	812	653	777	0	0	777	0	0	0	0	0
California State Polytechnic U., Pomona	344	131	505	776	19	0	0	0	0	0	0	757
Oakland U.	344	1,804	1,856	776	197	85	305	107	0	82	0	0
Clark U.	346	1,045	668	767	13	0	165	293	0	4	15	277
U. of the District of Columbia	347	0	0	757	0	0	0	0	0	0	0	757
Alabama A&M U.	348	1,135	943	751	111	32	277	65	28	49	20	169
CUNY, Queens C.	349	414	707	748	0	0	658	29	0	0	19	42
Spelman C.	350	852	677	747	0	0	0	747	0	0	0	0
Pomona C.	351	418	558	746	0	0	0	565	0	0	152	29
Minnesota State U., Mankato	352	622	650	727	36	0	0	0	0	0	6	685
U. Michigan, Dearborn	353	651	683	721	122	0	275	84	0	0	0	240
Smith C.	354	844	594	711	0	0	30	459	0	12	192	18
Tennessee Technological U.	355	612	538	694	71	0	307	2	0	0	13	301
U. of the Pacific	356	563	786	691	0	0	691	0	0	0	0	0
U. Minnesota, Duluth	357	504	496	671	168	18	196	26	0	12	91	160
California State U., Chico	358	126	154	670	30	12	483	22	0	0	0	123
Hampton U.	359	574	755	662	204	0	221	0	0	0	0	237
South Carolina State U.	360	1,046	1,109	649	120	0	529	0	0	0	0	0
MGH Institute of Health Professions	361	443	371	636	0	0	416	0	0	0	0	220

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019											
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other			
Saint John's U., Collegetown	362	529	640	631	82	61	12	400	0	0	76	0			
Teachers C., Columbia U.	362	1,005	1,216	631	0	0	631	0	0	0	0	0			
Colgate U.	364	686	681	628	0	0	55	443	0	0	130	0			
C. of Saint Benedict	365	462	622	614	91	68	13	358	0	0	84	0			
CUNY, Brooklyn C.	366	645	546	604	3	9	324	132	1	0	38	97			
U. Minnesota, Morris	367	470	ne	600	0	6	2	201	0	0	11	380			
U. Southern Maine	368	597	718	596	26	0	84	1	40	0	0	445			
Fairfield U.	369	5,214	208	575	16	0	0	262	0	0	0	297			
U. South Alabama	370	802	537	572	0	0	568	0	0	0	4	0			
U. of the Virgin Islands	371	267	104	568	49	0	519	0	0	0	0	0			
Dickinson C.	372	174	ne	561	19	0	222	67	0	98	21	134			
Trinity U.	373	562	607	551	63	64	49	245	0	0	3	127			
Winston-Salem State U.	374	400	340	543	0	0	249	0	0	0	0	294			
Clark Atlanta U.	375	59	23	540	0	0	0	0	0	149	0	391			
Delaware State U.	376	1,657	2,461	505	352	0	0	73	0	49	0	31			
Augsburg U.	377	496	546	495	0	0	0	0	0	0	0	495			
Hofstra U.	378	247	315	491	0	0	368	96	0	0	27	0			
Salish Kootenai C.	379	700	778	486	0	0	486	0	0	0	0	0			
U. of St. Thomas (MN)	380	312	301	475	41	0	107	0	0	0	6	321			
California Lutheran U.	381	ne	ne	473	49	1	175	124	0	0	123	1			
Northern Michigan U.	381	686	765	473	0	0	3	350	0	0	4	116			
U. Richmond	383	574	483	472	213	42	1	145	0	0	71	0			
Barnard C.	384	622	520	471	0	0	192	196	0	0	37	46			
CUNY, C. Staten Island	385	1,262	474	469	20	0	337	95	0	6	10	1			
U. Tulsa	386	312	275	468	8	2	204	80	0	0	174	0			
Morgan State U.	387	451	266	462	0	0	167	0	0	7	0	288			
Northwest Indian C.	388	ne	505	458	0	0	167	0	0	0	0	291			
Lafayette C.	389	372	576	453	0	0	23	61	0	0	73	296			
Carleton C.	390	5,094	3,597	442	0	0	0	442	0	0	0	0			
Stephen F. Austin State U.	391	876	737	438	7	4	79	88	0	119	20	121			
Indiana State U.	392	355	346	432	0	0	432	0	0	0	0	0			
Wright State U.	393	116	420	429	267	0	101	0	0	0	0	61			

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019										
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other		
Haverford C.	394	497	411	428	0	0	126	216	0	0	86	0		
U. Wyoming	395	3,105	206	425	0	0	414	0	0	0	0	11		
U. Washington, Tacoma	396	2,275	901	419	0	0	392	0	0	27	0	0		
West Texas A&M U.	397	253	356	416	3	0	413	0	0	0	0	0		
Central Connecticut State U.	398	122	ne	415	26	1	327	50	0	0	11	0		
Idaho State U.	399	166	422	412	23	0	320	38	0	8	11	12		
Morehead State U.	400	296	211	404	0	12	18	199	0	0	0	175		
CUNY, Baruch C.	401	700	1,081	400	127	10	0	53	13	0	16	181		
Northeastern Illinois U.	401	598	565	400	0	0	326	0	20	0	0	54		
California State U., Dominguez Hills	403	753	461	394	53	30	168	89	0	0	29	25		
Langston U.	404	433	413	393	0	0	302	0	0	0	0	91		
Roger Williams U.	404	1,052	272	393	0	0	52	0	320	0	0	21		
Grand Valley State U.	406	649	239	388	26	14	50	90	1	1	33	173		
Drake U.	407	456	540	380	21	0	231	9	119	0	0	0		
Lawrence Technological U.	408	452	600	377	0	0	140	6	0	0	0	231		
U. of the Incarnate Word	409	ne	281	372	3	0	0	0	0	0	0	369		
Emerson C.	410	719	356	359	0	0	51	149	0	0	41	118		
California State U., Fresno	411	874	574	358	57	0	60	127	0	0	0	114		
Liberty U.	412	ne	ne	351	0	0	4	55	0	0	38	254		
Northern Kentucky U.	413	132	224	338	31	30	68	98	6	29	29	47		
U. Wisconsin-La Crosse	414	347	391	337	123	3	0	92	0	0	8	111		
Rhode Island School of Design	415	735	347	336	0	0	81	115	0	0	44	96		
U. South Carolina, Aiken	415	0	20	336	13	0	7	0	0	0	0	316		
South Dakota State U.	417	84	178	332	0	41	42	8	0	0	0	241		
Bowdoin C.	418	140	218	314	0	0	11	239	0	0	19	45		
Des Moines U.	419	61	72	311	0	0	311	0	0	0	0	0		
Pennsylvania State U., Harrisburg	420	16	32	308	14	5	273	11	4	0	1	0		
California State U., Los Angeles	421	243	107	307	0	66	241	0	0	0	0	0		

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Allegheny C.	422	381	275	303	0	0	0	79	0	0	0	224
California Polytechnic State U., San Luis Obispo	423	675	492	295	57	105	37	72	0	0	0	24
East Tennessee State U.	424	347	349	294	248	30	16	0	0	0	0	0
Claremont McKenna C.	425	0	394	291	0	0	0	291	0	0	0	0
Mount Holyoke C.	426	0	426	290	0	0	0	272	0	0	0	18
Nova Southeastern U.	426	487	890	290	0	0	189	0	101	0	0	0
Albion C.	428	267	317	287	0	21	16	147	0	0	102	1
Union C., Schenectady	429	147	243	286	0	0	0	225	0	0	61	0
U. Nebraska, Kearney	430	499	548	283	50	4	26	30	0	4	13	156
Trinity C., Hartford	431	360	249	279	0	0	0	255	0	0	24	0
Fort Hays State U.	432	ne	ne	266	0	0	266	0	0	0	0	0
U. Wisconsin-Stevens Point	433	226	239	260	52	14	78	30	0	13	10	63
U. Houston-Clear Lake	434	633	24	257	4	0	4	4	0	0	0	245
Long Island U.	435	688	674	255	0	136	0	9	0	0	0	110
U. Wisconsin-Platteville	435	256	ne	255	0	0	135	27	32	0	9	52
California State U., Monterey Bay	437	13	97	252	0	0	67	0	0	30	0	155
U. Guam	438	39	172	248	0	0	227	0	0	0	0	21
Missouri State U.	439	111	18	241	0	0	0	0	0	0	0	241
Missouri U. of Science and Technology	440	285	329	239	0	26	0	210	0	0	0	3
Polytechnic U. Puerto Rico	441	ne	ne	234	0	0	0	0	0	0	0	234
Texas Tech U., Health Sciences Center, El Paso	441	953	411	234	0	0	222	0	0	0	0	12
Davidson C.	443	153	300	228	0	0	0	228	0	0	0	0
Macalester C.	444	162	186	226	0	0	0	222	0	0	0	4
Manhattan C.	445	ne	ne	221	210	0	11	0	0	0	0	0
Colby C.	446	428	292	211	0	0	10	183	0	0	18	0
Appalachian State U.	447	157	244	208	8	2	85	53	0	0	25	35
Doane U.	448	ne	140	206	0	0	206	0	0	0	0	0
U. Ana G. Mendez, Cupey	449	1,277	869	195	0	0	195	0	0	0	0	0



TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
U. Vermont	450	234	114	186	0	4	86	43	0	40	13	0
Humboldt State U.	451	55	61	185	3	0	1	0	0	0	0	181
SUNY, Geneseo	452	132	126	181	5	18	10	119	0	0	23	6
Towson U.	453	241	161	178	94	0	27	19	0	0	25	13
St. Olaf C.	454	193	251	174	5	0	39	72	0	2	56	0
C. Wooster	455	265	156	172	0	0	0	124	0	0	22	26
Embry-Riddle Aeronautical U.	456	202	166	171	157	0	2	11	0	0	0	1
Albany State U.	457	184	190	162	0	0	162	0	0	0	0	0
SUNY, C. of Environmental Science and Forestry	458	168	51	158	0	29	0	0	0	40	0	89
Xavier U. Louisiana	459	52	198	153	1	61	91	0	0	0	0	0
Kettering U.	460	988	471	152	45	0	0	19	0	0	0	88
Eastern Kentucky U.	461	91	138	150	2	0	0	0	0	0	0	148
U. Illinois, Springfield	462	654	60	149	5	0	0	44	0	0	100	0
Alaska Pacific U.	463	413	219	147	0	0	147	0	0	0	0	0
U. Wisconsin-Green Bay	463	146	101	147	29	8	46	16	0	8	5	35
Pennsylvania State U., Behrend	465	206	143	146	6	24	0	47	0	46	23	0
Fisk U.	466	684	9	142	0	0	0	142	0	0	0	0
U.S. Naval Academy	467	17	0	140	0	0	0	140	0	0	0	0
Gettysburg C.	468	304	132	139	0	9	0	45	0	0	85	0
Morehouse C.	469	4	166	137	0	0	0	0	0	0	96	41
CUNY, New York City C. of Technology	470	ne	60	135	5	6	97	0	4	0	13	10
Mercyhurst U.	471	693	ne	128	35	5	34	22	0	7	4	21
Keck Graduate Institute	472	16	117	126	69	0	0	47	0	0	10	0
U. Ana G. Mendez, Gurabo	473	137	191	122	122	0	0	0	0	0	0	0
New York Institute of Technology	474	142	169	115	16	0	99	0	0	0	0	0
Norfolk State U.	474	59	37	115	0	0	72	0	0	0	0	43
SUNY, Buffalo State	474	19	23	115	0	0	5	0	0	0	0	110
Western Carolina U.	474	43	77	115	0	0	21	0	0	81	13	0

TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Illinois Institute of Technology	478	297	714	114	3	0	71	0	0	0	0	40
Wheaton C., Wheaton	479	531	595	110	37	0	0	73	0	0	0	0
Texas A&M U.-Central Texas	480	ne	643	108	15	0	86	0	0	0	0	7
Augusta U.	481	24	38	106	0	15	24	0	0	0	30	37
Jackson State U.	482	1,518	493	103	0	0	103	0	0	0	0	0
SUNY, Oswego	483	32	29	102	0	6	76	3	0	0	17	0
SUNY, Polytechnic Institute	484	18	42	101	0	0	0	101	0	0	0	0
Santa Clara U.	485	119	117	99	91	0	4	1	0	0	0	3
Bethune-Cookman U.	486	ne	121	95	0	0	95	0	0	0	0	0
New Mexico Institute of Mining and Technology	487	87	123	93	18	0	75	0	0	0	0	0
Mercer U.	488	81	99	91	88	0	0	0	0	0	0	3
Skidmore C.	489	118	133	88	8	0	1	0	0	7	25	47
Oberlin C.	490	55	193	85	0	0	0	35	0	0	48	2
U. Wisconsin-Oshkosh	490	78 i	83 i	85 i	11 i	3 i	36 i	6 i	3 i	6 i	2 i	18 i
SUNY, C. Plattsburgh	492	0	0	80	0	0	55	25	0	0	0	0
Youngstown State U.	493	23	28	79	8	0	47	3	0	1	15	5
Andrews U.	494	ne	ne	78	0	0	0	0	0	0	0	78
Hobart and William Smith Colleges	495	29	ne	73	5	7	4	27	0	0	11	19
Oklahoma State U., Center for Health Sciences	496	80	111	69	23	0	46	0	0	0	0	0
Saginaw Valley State U.	497	428	56	68	40	0	5	17	0	1	3	2
West Virginia State U.	498	0	0	66	23	20	23	0	0	0	0	0
Western Illinois U.	498	102	52	66	0	0	0	0	0	0	0	66
U. Wisconsin-Eau Claire	500	84	91	62	0	0	0	4	6	0	0	52
Bates C.	501	103	127	61	0	0	2	32	0	0	17	10
Harvey Mudd C.	501	42	73	61	0	0	0	60	0	0	0	1
Biola U.	503	56 i	59 i	58 i	14 i	2 i	15 i	9 i	5 i	4 i	2 i	7 i
Calvin U.	504	150	144	56	0	0	0	53	0	3	0	0



TABLE 57

## Higher education R&amp;D expenditures in non-science and engineering fields, ranked by all FY 2019 non-S&amp;E fields: FYs 2017–19 and by subfield for FY 2019

(Dollars in thousands)

Institution	Rank	2017	2018	2019								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Northeast Ohio Medical U.	534	0	13	9	0	0	9	0	0	0	0	0
Canisius C.	535	148	15	7	0	0	7	0	0	0	0	0
U. Louisiana, Monroe	536	0	0	5	0	0	0	0	0	3	0	2
U. Maryland, Eastern Shore	536	0	0	5	0	0	0	0	0	0	0	5
Chicago State U.	538	ne	0	4	0	0	4	0	0	0	0	0
Dakota State U.	538	8	9	4	0	0	0	4	0	0	0	0
Stockton U.	538	ne	0	4	0	0	0	0	0	4	0	0
Albany C. of Pharmacy and Health Sciences	541	6	2	2	0	0	2	0	0	0	0	0
Fort Valley State U.	542	0	0	1	0	1	0	0	0	0	0	0
Kentucky State U.	542	0	0	1	1	0	0	0	0	0	0	0
All other surveyed institutions	-	48,024	56,606	0	0	0	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.

S&E = science and engineering.

<sup>a</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>b</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with zero imputed for total non-S&E R&D expenditures in FY 2019. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2019 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.