

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
All institutions	-	11,911,403	12,363,782	13,216,209	13,692,756	6,828,853	7,093,806	7,668,349	8,120,891
Johns Hopkins U. ^a	1	1,080,021	1,087,478	1,147,335	1,205,632	1,030,067	1,038,797	1,100,587	1,154,993
Georgia Institute of Technology	2	578,662	613,650	664,695	695,176	426,068	466,780	506,061	537,693
Massachusetts Institute of Technology	3	432,453	431,927	450,915	419,636	221,898	220,744	230,312	213,108
Pennsylvania State U., University Park and Hershey Medical Center	4	312,341	325,002	350,391	367,730	233,587	244,868	258,324	277,345
Texas A&M U., College Station and Health Science Center	5	287,620	300,956	321,373	357,559	62,158	70,000	77,456	95,138
SUNY, Polytechnic Institute	6	305,576	255,033	350,793	353,542	38,545	39,897	36,816	26,696
U. Michigan, Ann Arbor	7	286,094	299,072	291,887	283,329	180,969	178,020	175,137	176,141
Purdue U., West Lafayette	8	231,103	229,967	270,525	280,592	105,798	105,657	111,292	122,469
Virginia Polytechnic Institute and State U.	9	226,810	245,755	258,213	263,711	84,497	98,261	104,138	107,677
U. Texas, Austin	10	239,499	242,963	249,788	259,935	148,099	154,761	160,506	175,426
Utah State U.	11	111,780	140,407	202,345	226,616	100,965	124,950	183,794	206,998
U. California, Berkeley	12	189,550	200,668	200,122	209,293	73,820	75,316	81,194	79,645
U. Illinois, Urbana-Champaign	13	192,878	195,413	201,028	203,564	122,848	126,826	130,075	131,529
U. California, San Diego	14	125,033	150,596	172,919	182,495	67,172	73,246	88,846	97,602
Ohio State U.	15	178,028	183,646	177,518	175,109	75,799	84,724	85,547	85,038
North Carolina State U.	16	158,389	166,680	174,590	174,740	83,799	84,304	91,264	94,592
U. Colorado Boulder	17	176,988	171,965	152,391	160,423	85,054	86,829	92,099	105,890
Arizona State U.	18	135,169	142,175	152,395	155,015	60,045	61,096	72,655	80,121
U. Maryland ^b	19	na	na	158,814	153,109	na	na	86,168	86,398
U. Dayton	20	122,338	139,036	157,016	153,082	109,805	127,079	146,841	145,508
U. Washington, Seattle	21	136,318	149,931	155,076	152,919	98,022	103,714	108,560	114,031
Wichita State U.	22	62,444	63,328	109,248	134,848	17,734	13,677	22,954	46,023
U. Wisconsin-Madison	23	148,949	118,576	126,587	133,600	87,881	63,684	68,617	73,412
Stanford U.	24	125,627	146,504	134,585	130,950	86,833	91,628	79,988	81,391
U. Tennessee, Knoxville ^c	25	113,852	128,675	116,528	128,542	61,438	62,428	67,165	66,562
Cornell U.	26	85,162	92,590	110,545	123,703	51,604	55,763	63,696	69,870

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U. Minnesota, Twin Cities	27	123,835	124,637	120,976	120,929	63,781	67,776	71,695	74,167
U. Florida	28	97,826	93,580	107,598	119,066	49,985	49,486	60,844	62,573
SUNY, U. Buffalo	29	93,965	95,234	95,040	112,843	54,253	53,279	50,811	61,140
Iowa State U.	30	95,306	99,214	104,798	109,473	40,035	43,677	43,241	62,369
Carnegie Mellon U.	31	98,781	99,201	95,496	102,955	55,895	53,672	49,854	56,175
New York U.	32	79,801	85,767	99,711	100,207	11,912	13,790	14,986	15,445
U. California, Davis	33	85,557	89,128	92,277	97,951	34,594	35,375	37,549	37,203
Harvard U.	34	105,231	96,786	95,651	97,884	62,792	51,742	45,835	52,801
Duke U.	35	80,554	92,715	100,379	95,657	63,439	64,601	72,560	73,605
Vanderbilt U. and Vanderbilt U. Medical Center	36	83,560	87,250	94,340	94,674	44,770	47,036	52,742	52,373
U. California, Los Angeles	37	80,153	91,799	95,797	93,520	44,469	50,048	52,488	49,163
Rice U.	38	73,297	67,934	77,299	91,913	36,165	34,520	37,781	42,085
Northeastern U.	39	53,443	65,147	79,836	89,954	36,564	48,634	61,116	66,614
U. California, Santa Barbara	40	73,594	77,535	67,395	87,681	36,323	35,964	33,589	43,340
Boston U.	41	64,275	83,013	78,154	85,651	36,082	42,903	45,017	53,265
U. Notre Dame	42	75,064	77,243	89,702	84,478	37,603	36,062	40,258	41,771
Woods Hole Oceanographic Institution	43	61,402	61,221	83,974	84,333	52,263	52,285	72,016	75,442
Michigan State U.	44	61,918	77,165	79,638	82,690	27,668	27,900	29,787	31,431
U. Pennsylvania	45	64,279	67,574	78,444	82,299	35,965	36,750	39,422	44,542
New Jersey Institute of Technology	46	59,726	69,735	78,455	82,047	37,648	41,611	53,994	53,702
U. Arizona	47	62,925	70,100	75,555	79,463	29,669	30,716	35,880	34,459
U. Southern California	48	69,226	72,961	76,180	78,005	39,663	46,803	52,737	55,089
Northwestern U.	49	84,520	81,662	80,413	77,150	48,089	48,724	47,948	49,383
Clemson U.	50	65,885	73,506	76,739	76,971	30,795	33,781	39,395	38,214
U. Delaware	51	40,177	52,932	66,447	74,258	31,785	37,656	47,975	53,448
Columbia U. in the City of New York	52	67,996	72,301	72,596	72,758	57,636	61,834	59,672	62,020
U. Virginia, Charlottesville	53	48,285	70,000	83,072	72,602	30,045	38,600	43,878	41,454
Auburn U., Auburn	54	56,657	56,233	59,742	70,593	23,274	21,497	25,694	28,796
Mississippi State U.	55	49,856	48,399	60,183	69,220	26,419	24,187	33,935	45,520
Princeton U.	56	70,261	67,450	65,000	67,014	47,262	42,147	41,480	40,829
U. Central Florida	57	55,792	62,734	62,258	62,071	23,499	33,002	33,413	35,514
U. California, Irvine	58	53,016	70,449	55,995	59,695	26,637	26,914	24,021	27,421

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Texas, Arlington	59	41,258	48,513	54,450	59,395	17,441	20,698	22,053	22,163
U. Massachusetts, Amherst	60	53,718	54,219	49,745	58,804	27,264	27,568	26,896	28,635
Rensselaer Polytechnic Institute	61	59,446	57,190	59,831	57,923	29,363	28,136	28,307	28,960
U. Utah	62	39,993	42,053	55,478	57,608	30,543	25,847	32,365	34,915
Florida State U.	63	50,234	56,281	56,352	56,493	31,794	39,060	39,126	38,126
Rutgers, State U. New Jersey, New Brunswick	64	75,760	104,371	92,937	55,880	38,224	35,299	35,917	40,629
U. Houston	65	54,497	50,047	51,806	55,210	19,323	21,593	23,838	24,929
U. Pittsburgh, Pittsburgh	66	43,801	44,995	46,075	53,586	27,229	27,599	31,347	36,623
U. Missouri, Columbia	67	43,053	44,864	48,028	53,343	10,079	12,483	14,331	16,905
U. Alabama, Birmingham	68	47,730	48,102	47,555	53,030	36,558	38,086	37,724	44,243
U. North Dakota	69	43,485	52,960	54,760	52,511	20,059	30,506	28,684	20,330
George Mason U.	70	11,185	15,785	36,101	52,423	8,870	13,550	31,276	45,977
California Institute of Technology	71	61,771	45,494	46,972	51,693	28,501	22,700	24,690	26,324
U. Nebraska, Lincoln	72	48,890	49,434	53,932	51,685	18,514	18,358	20,375	21,149
U. Alabama, Huntsville	73	32,555	34,105	40,733	51,198	22,595	24,961	31,957	42,499
Oregon State U.	74	51,184	49,271	49,587	50,900	33,223	34,437	36,090	35,946
U. Texas, Dallas	75	45,588	43,363	48,666	50,812	14,837	15,884	19,512	21,594
U. Iowa	76	54,200	50,848	50,377	48,433	23,137	22,494	21,473	20,687
U. Kentucky	77	45,416	47,821	50,743	46,976	23,967	25,067	28,999	26,818
U. Connecticut	78	39,840	39,907	44,044	46,751	22,275	22,920	26,390	30,450
Colorado School of Mines	79	32,824	35,504	44,195	46,694	20,764	23,277	31,066	33,432
Michigan Technological U.	80	39,627	45,745	47,435	45,263	16,068	19,638	21,801	23,332
U. Cincinnati	81	33,618	44,588	46,889	43,098	11,038	10,598	12,015	11,447
Texas Tech U.	82	46,553	40,249	44,057	42,856	9,809	10,888	14,017	14,399
Colorado State U., Fort Collins	83	40,921	38,919	42,609	42,839	28,929	29,104	31,135	30,860
U. South Carolina, Columbia	84	30,893	31,294	31,748	42,804	16,166	15,596	16,076	15,010
U. New Mexico	85	36,052	35,067	37,950	42,739	27,345	27,521	30,449	34,153
U. California, Santa Cruz	86	33,669	29,724	39,111	41,752	21,460	18,845	25,568	22,817
West Virginia U.	87	36,747	37,520	42,516	40,786	18,587	18,904	19,835	15,930
Louisiana State U., Baton Rouge	88	41,065	44,604	45,803	40,084	9,822	11,227	11,587	10,268

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Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Florida International U.	89	29,106	31,410	35,138	39,826	15,502	17,220	19,899	21,747
Washington State U.	90	46,444	43,674	39,578	39,533	19,209	19,156	18,943	20,360
Montana State U., Bozeman	91	25,633	25,643	36,521	38,833	17,969	18,950	25,349	28,753
Case Western Reserve U.	92	40,120	46,184	41,228	37,911	31,395	33,187	29,335	27,954
U. Arkansas, Fayetteville	93	32,981	36,132	34,590	37,758	14,228	15,886	14,659	18,074
Mercer U.	94	23,942	23,532	32,624	37,450	18,153	17,021	25,358	29,625
U. South Florida, Tampa	95	46,796	45,487	45,508	37,162	24,425	24,747	22,743	18,073
Yale U.	96	30,905	35,939	36,591	36,806	19,546	23,606	24,674	24,172
U. Maine	97	22,065	27,459	32,368	36,760	7,708	10,014	13,614	18,038
U. Oklahoma, Norman and Health Science Center	98	24,840	23,293	26,569	36,643	12,372	12,084	13,783	15,069
Missouri U. of Science and Technology	99	31,077	33,241	37,912	36,447	15,125	16,249	17,811	16,411
U. Massachusetts, Lowell	100	20,422	27,676	33,128	35,847	7,695	11,828	13,443	14,870
Oklahoma State U., Stillwater	101	39,179	37,003	32,947	33,983	15,538	11,982	11,962	11,969
Stevens Institute of Technology	102	24,180	22,396	25,832	33,103	17,298	16,994	18,945	23,906
U. Alabama, Tuscaloosa	103	19,382	24,667	31,845	33,019	8,986	10,874	16,390	19,679
SUNY, Binghamton U.	104	26,681	35,406	30,434	32,668	4,936	6,470	6,356	6,526
U. California, Riverside	105	29,971	29,206	29,020	31,937	15,932	16,293	16,217	17,034
U. Illinois, Chicago	106	23,478	25,079	28,226	31,496	11,897	13,558	14,707	17,537
Drexel U.	107	32,240	31,625	31,330	31,230	20,342	21,222	20,443	19,772
Dartmouth C. and Dartmouth Hitchcock Medical Center	108	29,893	31,903	31,110	31,140	20,668	21,403	21,279	21,064
U. North Carolina, Chapel Hill	109	29,932	28,509	31,825	30,774	18,086	19,456	19,251	17,813
SUNY, Stony Brook U.	110	32,483	28,015	28,632	30,180	15,587	15,013	15,637	15,329
U.S. Air Force Academy	111	33,831	28,645	28,489	29,812	31,629	26,453	28,489	29,812
Virginia Commonwealth U.	112	23,146	20,262	26,072	29,811	6,870	7,362	9,482	11,779
Wright State U.	113	34,024	43,039	39,164	29,519	20,850	28,136	25,868	23,496
Kansas State U.	114	24,976	26,577	27,439	28,155	8,976	9,819	12,503	12,530

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		2017	2018	2019	2020	2017	2018	2019	2020
U. Louisiana, Lafayette	115	9,569	13,188	28,397	27,878	845	783	4,247	3,557
Tufts U.	116	20,037	27,130	31,630	26,662	13,858	22,470	26,143	20,397
Old Dominion U.	117	19,086	17,074	19,294	25,869	10,931	7,601	8,179	11,802
U. Hawaii, Manoa	118	21,992	21,367	17,089	25,423	16,702	15,744	10,777	17,536
U. Texas, El Paso	119	27,643	27,260	26,586	25,172	14,621	15,228	11,995	11,812
New Mexico State U.	120	26,947	23,067	25,892	25,030	18,248	14,388	17,202	15,583
U. Chicago	121	12,066	16,388	23,773	24,468	10,546	12,919	17,275	20,168
Syracuse U.	122	23,081	22,145	25,412	24,272	8,408	9,100	7,616	7,696
Lehigh U.	123	23,562	24,564	23,447	24,054	16,202	16,053	15,374	16,205
Brown U.	124	24,798	28,149	23,448	23,965	17,904	20,893	17,289	17,138
Air Force Institute of Technology	125	26,096	22,908	20,525	23,947	18,736	16,075	14,015	15,238
U. Nevada, Reno	126	16,982	19,373	23,568	23,939	8,102	7,474	8,785	9,664
Washington U., Saint Louis	127	24,627	24,238	23,090	23,821	21,173	20,596	18,895	19,552
Worcester Polytechnic Institute	128	21,355	20,617	21,029	23,758	12,191	10,668	11,735	13,084
U. New Hampshire	129	22,103	19,239	23,861	23,457	10,218	9,291	12,286	11,466
CUNY, City C.	130	26,479	28,252	28,337	23,140	15,021	17,753	16,998	15,704
Naval Postgraduate School	131	18,739	19,675	22,498	22,933	16,272	17,019	20,124	20,145
U. Texas, San Antonio	132	17,717	17,781	19,928	22,922	6,534	5,947	5,949	5,961
George Washington U.	133	16,438	17,136	21,712	22,682	10,791	10,987	14,597	15,091
Rochester Institute of Technology	134	21,517	18,611	20,264	20,910	9,880	8,298	8,136	7,965
U. Wyoming	135	39,901	36,672	19,550	20,317	8,326	4,369	6,075	4,640
U. Kansas	136	17,856	17,481	20,869	19,830	11,002	10,149	14,177	13,829
U. North Carolina, Charlotte	137	7,972	11,933	16,000	19,781	5,716	6,776	7,845	8,853
U. Georgia	138	15,071	21,346	18,444	19,273	5,393	4,964	6,292	7,208
U. Louisville	139	17,536	17,321	16,302	18,105	5,943	6,949	8,248	9,077
U. Alaska, Fairbanks	140	17,627	14,027	14,922	17,843	5,140	7,642	9,090	11,998
U. Idaho	141	16,894	17,190	17,497	17,035	7,876	7,521	8,525	8,376
U. Puerto Rico, Mayaguez	142	12,898	13,704	16,446	16,903	6,211	7,275	8,892	9,428
Ohio U.	143	23,201	21,226	19,502	16,291	6,144	5,512	5,252	4,454
Cleveland State U.	144	15,635	15,184	17,278	16,225	9,469	8,971	11,036	11,055
U. Rochester	145	10,596	13,418	14,872	16,116	7,098	9,658	11,814	12,764

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Brigham Young U., Provo	146	14,904	14,827	14,001	15,943	8,940	8,727	9,188	11,438
U. North Texas, Denton	147	12,485	13,114	15,773	15,205	5,943	7,918	5,962	3,805
U. California, Merced	148	11,823	12,912	13,852	15,191	5,221	4,957	4,652	5,760
Indiana U., Bloomington	149	6,194	7,928	11,265	14,294	4,043	3,649	4,864	6,314
North Dakota State U.	150	13,053	11,555	12,030	14,007	2,600	2,750	3,254	3,085
Boise State U.	151	9,717	11,907	11,688	13,956	4,824	6,297	6,377	8,245
U. Mississippi	152	7,247	5,462	8,821	13,661	2,657	3,137	4,752	12,422
U. Tulsa	153	13,770	14,054	13,213	13,182	1,760	1,647	1,520	1,387
New Mexico Institute of Mining and Technology	154	11,260	13,245	14,043	13,084	10,048	12,044	13,004	11,869
Oregon Health and Science U.	155	16,233	11,941	12,134	12,856	8,665	8,694	10,649	9,549
Wayne State U.	156	16,668	17,235	14,634	12,806	6,063	6,264	6,640	5,947
U. Nevada, Las Vegas	157	12,018	16,192	15,736	12,729	6,582	7,839	6,161	4,946
South Dakota School of Mines and Technology	158	13,572	13,111	11,226	12,677	9,199	8,581	7,570	8,887
Embry-Riddle Aeronautical U.	159	11,223	12,926	8,374	12,015	9,113	10,728	6,291	7,943
Illinois Institute of Technology	160	12,117	12,976	15,241	11,934	9,160	10,861	12,061	9,230
Rowan U.	161	4,062	5,541	8,447	11,784	2,300	3,386	4,229	7,616
Louisiana Tech U.	162	9,552	10,333	11,513	11,459	3,525	3,948	4,263	4,582
Emory U.	163	4,872	6,000	9,614	11,349	2,910	2,925	6,256	8,676
U. Akron	164	24,042	18,878	16,650	11,345	11,311	8,155	6,447	5,096
U. Vermont	165	8,743	7,712	7,864	11,209	7,027	5,683	5,190	4,853
U. Memphis	166	8,077	9,806	9,464	10,741	2,503	3,063	2,489	2,513
Florida Atlantic U.	167	8,585	12,099	11,450	10,574	4,384	6,467	7,007	6,955
North Carolina Agricultural and Technical State U.	168	12,648	13,123	11,766	10,393	10,538	10,933	9,713	8,664
Missouri State U.	169	1,198	2,200	3,234	10,257	1,120	2,200	3,176	10,096
Villanova U.	170	7,988	9,293	9,612	10,193	1,571	1,535	1,543	1,375
U. Rhode Island	171	7,642	7,910	10,632	10,182	4,352	5,282	7,329	6,939
Marquette U.	172	8,915	7,898	8,988	10,059	2,566	2,424	3,033	4,291
U. Toledo	173	10,161	10,410	11,256	10,023	5,177	5,781	6,062	5,921
Southern Methodist U.	174	6,174	6,835	9,207	9,798	3,053	3,220	5,145	5,103
U. Wisconsin-Milwaukee	175	9,745	10,024	9,915	9,683	2,229	2,373	2,537	2,940
Clarkson U.	176	10,487	12,058	10,889	9,363	4,371	5,553	5,883	4,584
Temple U.	177	6,558	7,719	8,042	9,294	3,462	4,142	3,830	4,758

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Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Medical C. Wisconsin	178	0	6,669	7,800	8,542	0	4,864	6,029	6,389
U. Missouri, Kansas City	179	3,314	4,385	7,089	8,351	1,011	2,105	5,349	6,902
U. Nebraska, central administration	180	ne	2,800	1,687	8,340	ne	2,800	1,687	8,340
Howard U.	181	8,402	9,112	8,401	8,336	7,212	7,260	6,046	6,241
U. Massachusetts, Dartmouth	182	7,666	7,404	7,764	7,944	2,598	2,751	2,696	2,170
San Diego State U.	183	8,935	8,534	8,197	7,934	4,310	4,026	3,801	3,851
California State U., Sacramento	184	7,527	7,196	7,507	7,744	2,969	3,282	3,443	3,150
Tennessee Technological U.	185	5,927	7,301	7,267	7,559	2,451	2,539	2,402	2,756
U.S. Naval Academy	186	7,414	7,823	7,482	7,376	7,335	7,667	7,311	7,202
Morgan State U.	187	3,795	3,002	3,990	7,228	3,202	2,366	3,376	4,847
Indiana U.-Purdue U., Indianapolis	188	6,221	6,034	6,730	7,179	3,025	3,054	3,298	4,369
U. Michigan, Dearborn	189	6,870	6,503	6,832	7,088	1,509	844	1,129	1,681
Texas A&M U.-Corpus Christi	190	4,820	7,089	7,193	7,064	1,260	2,121	2,020	2,800
Texas State U.	191	4,248	3,504	4,611	6,892	1,832	1,066	623	746
Tulane U.	192	6,801	7,435	8,416	6,881	3,224	3,965	4,170	4,050
Portland State U.	193	7,488	9,010	9,160	6,719	4,107	4,531	4,887	4,113
U. Maryland, Baltimore County	194	14,075	8,715	8,429	6,671	10,509	6,204	4,862	4,651
U. Colorado Denver and Anschutz Medical Campus	195	5,331	4,610	5,003	6,180	2,330	2,414	4,046	4,944
U. Southern Mississippi	196	1,521	1,214	3,371	5,999	1,521	1,214	3,286	1,823
Tuskegee U.	197	6,532	5,297	5,372	5,922	5,197	5,197	4,097	4,177
South Dakota State U.	198	5,807	5,391	5,516	5,490	3,238	3,283	2,925	2,674
Florida Institute of Technology	199	6,593	5,427	4,782	5,362	2,379	2,306	2,391	3,305
U.S. Military Academy	200	3,668	3,020	3,799	5,297	3,668	3,020	3,799	5,252
Prairie View A&M U.	201	3,359	3,835	5,121	5,222	2,151	2,641	3,183	3,184
Western Michigan U. and Homer Stryker M.D. School of Medicine	202	5,921	5,810	5,595	5,091	2,715	2,590	1,945	1,580
U. Miami	203	5,969	5,201	5,400	5,060	3,242	2,658	2,532	2,128

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Idaho State U.	204	5,660	4,725	4,039	5,014	2,575	1,815	1,203	2,491
Northern Arizona U.	205	3,515	4,454	2,613	4,996	763	1,043	1,106	3,649
Florida A&M U.	206	2,485	2,844	4,477	4,796	2,117	2,298	4,057	4,492
California State U., Long Beach	207	2,269	5,150	4,223	4,733	1,044	3,008	2,109	2,533
California Polytechnic State U., San Luis Obispo	208	4,196	3,542	4,117	4,646	2,707	2,136	1,566	1,338
Baylor U.	209	4,938	4,494	3,720	4,515	1,297	1,189	1,440	1,271
U. Denver	210	4,940	3,992	4,010	4,461	1,524	1,558	1,879	2,109
Montana Technological U.	211	4,887	4,464	4,428	4,331	3,799	3,239	3,606	3,161
Humboldt State U.	212	5,625	4,118	5,232	4,261	3	4	16	153
U. Texas Rio Grande Valley	213	4,534	4,226	3,573	4,018	3,283	2,798	1,134	1,761
Miami U.	214	2,887	2,271	3,070	3,783	825	281	361	667
U. South Alabama	215	2,852	1,956	2,411	3,640	1,025	1,098	1,467	2,624
Catholic U. of America	216	1,937	1,973	2,587	3,518	1,549	1,610	1,961	2,925
Youngstown State U.	217	3,712	4,044	3,993	3,491	2,680	3,333	2,667	2,818
SUNY, U. Albany	218	1,214	1,941	3,087	3,319	24	74	512	1,039
U. Tennessee, Chattanooga	218	1,454	1,674	2,460	3,319	425	589	1,216	2,277
New School	220	37	1,797	2,828	3,205	37	0	99	116
California State U., Maritime Academy	221	1,860	2,924	2,959	3,202	206	550	617	621
Milwaukee School of Engineering	222	2,792	2,936	3,825	3,105	340	631	695	613
East Carolina U.	223	546	1,276	2,015	3,053	182	267	475	366
San Jose State U.	224	1,076	1,451	1,864	2,863	569	699	1,029	1,575
Kent State U.	225	1,492	1,857	2,330	2,743	920	1,183	1,860	1,278
Alfred U.	226	3,168	3,599	5,032	2,720	854	1,374	1,459	887
North Carolina Central U.	227	0	0	1,212	2,675	0	0	789	1,929
Texas A&M U.-Kingsville	228	2,337	1,906	1,827	2,653	1,261	964	1,187	1,830
Saint Louis U.	229	1,027	1,346	2,344	2,621	280	486	1,176	1,549
Purdue U., Northwest	230	2,904	2,307	1,352	2,521	1,459	675	376	1,128
U. North Carolina, general administration	231	2,313	2,311	2,239	2,467	78	49	189	552
U. North Florida	232	2,320	2,832	2,392	2,433	581	439	360	304
California State U., San Marcos	233	306	344	797	2,408	306	344	797	2,408

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed				
		2017	2018	2019	2020	2017	2018	2019	2020	
Southern Illinois U., Carbondale	234	3,427	3,381	2,905	2,333	674	386	392	180	
Delaware State U.	235	962	1,807	2,248	2,332	i 760	1,500	1,218	1,269	i
CUNY, Advanced Science Research Center	236	1,019	1,564	1,379	2,289	631	1,274	1,289	1,968	
U. New Orleans	237	3,422	2,447	2,376	2,282	524	392	344	250	
U. Minnesota, Duluth	238	2,156	2,570	2,399	2,186	148	199	319	180	
Georgia Southern U.	239	1,766	1,110	1,257	1,929	297	196	174	301	
California State Polytechnic U., Pomona	240	915	1,248	1,085	1,875	479	751	728	1,141	
Lamar U.	241	2,734	2,280	1,609	1,825	782	1,012	442	838	
U. Oklahoma, Tulsa	242	938	1,432	1,549	1,816	477	667	919	1,066	
California State U., Fresno	243	1,298	1,520	1,492	1,748	778	758	419	526	
Pittsburg State U.	244	1,933	1,978	1,990	1,659	13	19	12	50	
U. Arkansas, Little Rock	245	1,852	1,921	2,116	1,627	1,206	1,060	1,224	950	
Alabama A&M U.	246	3,888	i 3,122	i 2,354	i 1,603	i 2,890	i 2,236	i 1,581	i 1,078	i
California State U., San Bernardino	247	4	1,133	2,434	1,598	0	0	0	0	
Bucknell U.	248	1,628	i 1,733	1,632	1,550	i 585	i 561	533	512	i
Minnesota State U., Mankato	249	616	1,204	1,472	1,486	121	80	174	244	
Tennessee State U.	250	2,120	1,467	1,207	1,480	1,473	1,203	824	1,142	
Kennesaw State U.	251	834	549	2,044	1,478	185	111	105	74	
Jackson State U.	252	4,298	3,385	3,354	1,468	3,546	2,806	2,908	1,262	
Northern Illinois U.	253	1,215	1,072	1,418	1,467	332	334	222	246	
California State U., Bakersfield	254	729	1,271	2,050	1,449	280	928	1,453	1,179	
Southern Illinois U., Edwardsville	255	4,334	2,666	2,348	1,424	1,425	611	475	240	
Southern U. and A&M C., Baton Rouge	255	852	1,523	1,905	1,424	730	1,342	1,454	1,360	
U. of the District of Columbia	257	1,371	721	708	1,388	1,311	721	708	1,388	
U. South Dakota	258	3,443	3,198	3,243	1,385	586	663	1,280	440	
U. Colorado Colorado Springs	259	992	763	694	1,367	819	656	649	877	
U. South Carolina, Aiken	260	1,404	1,490	1,520	1,331	1,404	1,490	1,453	1,331	

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
San Francisco State U.	261	1,595	1,492	1,284	1,330	559	486	371	387
Norfolk State U.	262	1,819	1,501	1,940	1,312	1,791	1,501	1,940	1,312
West Texas A&M U.	263	957	1,058	1,178	1,277	388	534	477	500
Morehead State U.	264	1,887	1,592	806	1,271	1,527	1,306	754	1,208
U. San Diego	265	695	898	776	1,252	503	756	633	686
Pennsylvania State U., Behrend	266	1,151	1,112	1,508	1,232	225	277	408	337
U. Massachusetts, Boston	267	1,549	1,220	1,255	1,206	477	609	533	547
U. Nebraska, Omaha	268	779	515	993	1,195	692	398	683	859
U. Texas Medical Branch	269	1,333	2,528	1,596	1,192	726	1,093	411	276
Marshall U.	270	1,341	1,011	1,158	1,137	451	271	502	434
CUNY, system office	271	0	2,245	1,001	1,132	0	1,419	912	662
California State U., Chico	272	337	305	567	1,120	20	35	179	613
California State U., Northridge	273	980	757	714	1,115	899	700	604	926
U. Alaska, Anchorage	274	2,066	2,196	1,393	1,101	252	226	562	644
Virginia State U.	275	1,665	951	793	1,058	444	240	165	210
Kettering U.	276	2,271	1,516	1,354	1,046	689	454	184	114
Oakland U.	277	3,651	3,709	3,836	1,041	1,040	1,076	720	233
U. Hartford	278	1,304	440	1,300	1,002	957	42	791	605
Western Washington U.	279	1,258	1,489	832	989	586	535	336	475
U. of St. Thomas (MN)	280	203	617	407	976	5	29	25	19
Smith C.	281	674	563	553	952	588	477	463	725
Santa Clara U.	282	658	535	876	948	177	177	215	393
California State U., Los Angeles	283	787	762	879	922	414	642	688	806
SUNY, C. of Environmental Science and Forestry	284	2,975	1,245	1,339	912	429	249	259	158
U. of the Virgin Islands	285	0	87	61	902	0	87	61	834
U. Ana G. Mendez, Gurabo	286	620	501	2,324	884	4	0	575	365
Hampton U.	287	1,730	1,296	1,049	866	1,730	1,296	1,049	866
Wake Forest U.	288	0	49	385	859	0	49	148	208
Liberty U.	289	ne	ne	311	838	ne	ne	0	442
Lawrence Technological U.	290	1,470	996	882	806	552	386	210	227

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Central Michigan U.	291	650	657	559	736	334	276	162	84
Manhattan C.	292	ne	ne	809	716	ne	ne	167	170
Florida Polytechnic U.	293	ne	ne	1,739	689	ne	ne	283	159
Western Kentucky U.	293	600	783	597	689	136	93	2	68
South Carolina State U.	295	199	239	662	687	199	208	662	687
Oregon Institute of Technology	296	3,031	2,760	798	679	505	158	272	203
U. Tennessee, Health Science Center	297	625	598	610	648	0	0	0	0
U. North Carolina, Wilmington	298	778	1,659	1,226	640	222	531	484	335
Savannah State U.	299	302	429	526	639	302	429	526	639
Wellesley C.	300	0	0	0	633	0	0	0	633
Harvey Mudd C.	301	856	596	884	628	399	340	440	175
Bradley U.	302	1,560	885	945	617	343	180	236	214
California State U., Fullerton	303	582	563	609	616	470	352	288	534
Christopher Newport U.	304	332	536	575	566	332	536	575	566
Alabama State U.	305	0	0	0	533	0	0	0	533
U. New Haven	305	890	906	1,013	533	447	557	485	238
Pace U.	307	1,435	735	435	516	664	395	404	464
Fort Lewis C.	308	ne	ne	760	505	ne	ne	702	477
Franklin W. Olin C. of Engineering	309	1,079	789	534	491	448	425	111	255
New York Institute of Technology	310	315	698	1,045	458	315	422	697	372
Purdue U., Fort Wayne	311	537	533	221	443	40	93	160	194
Eastern Michigan U.	312	183	156	304	402	80	0	9	102
U. Ana G. Mendez, Carolina	313	0	0	ne	387	0	0	ne	314
U. Michigan, Flint	314	199	140	152	376	29	8	0	0
Duquesne U.	315	651	588	525	374	275	208	179	146
Arkansas State U., Jonesboro	316	496	490	553	371	140	142	180	144
Western Carolina U.	316	108	136	365	371	96	122	269	291
CUNY, New York City C. of Technology	318	ne	601	478	367	ne	579	442	353
Swarthmore C.	318	311	377	314	367	205	141	55	0

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Johnson C. Smith U.	320	0	0	0	364	0	0	0	364
U. Texas, Tyler	321	469	405	394	344	130	127	71	47
U. Puerto Rico, Rio Piedras	322	3,334	326	37	341	1,188	117	37	270
U. Wisconsin-Green Bay	323	733 i	242 i	353 i	338 i	183 i	95 i	147 i	159 i
Keck Graduate Institute	324	0 i	293 i	326 i	336 i	0 i	190 i	208 i	215 i
U. Wisconsin-Oshkosh	325	260 i	275 i	300 i	312 i	198 i	207 i	230 i	240 i
James Madison U.	326	438	105	313	305	359	56	181	186
Hofstra U.	327	959	717	521	299	957	717	506	288
CUNY, C. Staten Island	328	577	1 i	1	294	238	0 i	0	249
U. West Florida	329	35	33	21	278	0	0	0	196
Saginaw Valley State U.	330	294	242	239	277	148	136	124	105
Oklahoma State U., Center for Health Sciences	331	100	0	309	258	62	0	54	46
Lafayette C.	332	805	183	184	251	749	112	107	139
Florida Gulf Coast U.	333	139	270	59	250	101	270	56	47
Benedict C.	334	453	364	252	248	453	364	246	237
Grand Valley State U.	335	246	40	400	236	0	0	0	0
U. Texas of the Permian Basin	336	538	50	ne	217	328	50	ne	82
Colorado State U., Pueblo	337	ne	ne	178	210	ne	ne	51	47
Union C., Schenectady	338	145	119	118	204	29	32	10	81
Middle Tennessee State U.	339	283	540	59	182	90	100	3	76
Hope C.	340	193	55	128	175	161	52	116	138
Claflin U.	341	5	56	145	170	5	42	144	170
Biola U.	342	146 i	153 i	162 i	167 i	101 i	103 i	109 i	113 i
Central State U.	343	112	100	340	166	112	100	340	166
Loyola Marymount U.	344	158	553	160	165	9	4	0	0
Clark Atlanta U.	345	292	347	214	158	183	347	44	0
Tarleton State U.	346	0	0	61	156	0	0	0	0
U. Wisconsin-Platteville	347	170 i	ne	145 i	145 i	83 i	ne	68 i	67 i
Thomas Jefferson U.	348	0	0	0	143	0	0	0	59
Seattle U.	349	392	336	283	140	319	185	72	10
Lipscomb U.	350	ne	ne	ne	139 i	ne	ne	ne	95 i
Alcorn State U.	351	656	496	343	133	620	496	330	126

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
California State U., East Bay	352	ne	ne	ne	132	ne	ne	ne	41
U. Maryland, Eastern Shore	353	30	43	40	128	0	0	0	125
SUNY, Oswego	354	215	300	231	125	28	50	81	13
U. Maryland Center for Environmental Science	355	393	160	90	122	105	63	89	42
Bowling Green State U.	356	20	10	60	121	20	0	0	0
Central Connecticut State U.	357	130	ne	119	120	112	ne	87	94
U. Detroit Mercy	358	73	103	227	119	0	4	59	75
CUNY, Brooklyn C.	359	0	0	116 i	118	0	0	0 i	0
Fairfield U.	360	267	375	60	117	31	22	0	0
West Virginia State U.	361	188	328	34	109	132	273	34	31
C. New Jersey	362	283	155	ne	105	222	114	ne	8
Calvin U.	363	95	159	111	104 i	6	47	21	20 i
U. Wisconsin-River Falls	364	0	46	ne	103	0	5	ne	65
Chapman U.	365	0	0	0	102	0	0	0	43
Texas Southern U.	366	89	98	130	93	82	98	130	82
U. of the Pacific	367	195	165	68	89	145	163	68	89
Fort Valley State U.	368	0	0	0	84	0	0	0	84
Trinity U.	369	108	108	103	80	7	0	0	0
Western Illinois U.	370	639	711	409	79	444	530	321	71
Merrimack C.	371	ne	207	ne	78	ne	207	ne	78
Suffolk U.	372	0 i	ne	ne	76	0 i	ne	ne	76
Pennsylvania State U., Harrisburg	373	278	223	312	74	174	132	15	44
U. of the Incarnate Word	374	ne	0	47	72	ne	0	0	0
St. Cloud State U.	375	101	183	121	71	0	0	0	0
Texas A&M International U.	375	166	91	30	71	0	0	3	28
C. Charleston	377	0	0	0	67	0	0	0	67
East Tennessee State U.	378	0	0 i	2 i	65 i	0	0	2	52
Xavier U. Louisiana	378	152	241	376	65	152	241	376	65
Central Washington U.	380	6	13	70	61	0	0	4	34
U. Wisconsin-Stevens Point	381	38 i	46 i	52 i	60	27 i	34 i	40 i	47

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Washington, Tacoma	382	0	0	0	59	0	0	0	59
Eastern Kentucky U.	383	0	0	0	58	0	0	0	52
Trinity C., Hartford	384	62	86	86	49	3	19	19	13
Texas A&M U.-Commerce	385	3	5	28	48	0	0	0	0
Texas Christian U.	386	199	175	73	46	94	121	0	8
Elon U.	387	82	83	87	45	71	64	68	25
Andrews U.	388	ne	ne	47	41	ne	ne	41	37
U. Houston-Downtown	389	2	7	42	36	0	0	0	28
Citadel Military C. South Carolina	390	ne	ne	ne	34	ne	ne	ne	13
Azusa Pacific U.	391	179	38	50	31	0	0	0	0
CUNY, Graduate Center	392	0	0	0	30	0	0	0	30
Roger Williams U.	392	103	94	36	30	0	0	0	0
U. Alaska, Southeast	392	0	38	0	30	0	38	0	30
U. Southern Maine	395	113	3	23	27	20	0	0	0
Midwestern State U.	396	ne	ne	ne	25	ne	ne	ne	0
Weber State U.	397	ne	ne	ne	22	ne	ne	ne	22
Sam Houston State U.	398	0	29	21	20	0	0	0	0
Montclair State U.	399	0	0	0	14	0	0	0	0
Hawaii Pacific U.	400	0	0	10	13	0	0	10	13
Jacksonville State U.	401	8 i	8	22	11	8 i	8	22	11
U. Wisconsin-Superior	402	ne	0	4	9	ne	0	4	9
Keene State C.	403	0	ne	8	8	0	ne	8	8
Stephen F. Austin State U.	404	4	14	15	6	4	14	15	5
U. San Francisco	404	0	0	0	6	0	0	0	0
Northwestern State U. Louisiana	406	2	0	0	5	0	0	0	0
Indiana State U.	407	3	2	1	4	0	0	0	0
Southeastern Louisiana U.	407	6	0	0	4	0	0	0	3
Albany State U.	409	0	3	16	3	0	3	16	3
U. Houston-Clear Lake	410	0	0	5	2	0	0	0	0
Doane U.	411	ne	0	0	1 i	ne	0	0	1 i
Sonoma State U.	411	ne	ne	ne	1	ne	ne	ne	0

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Central Oklahoma	411	0	0	0	1 i	0	0	0	1 i
U. Nebraska, Kearney	411	0	0	0	1	0	0	0	0
U. North Carolina, Asheville	411	40	74	10	1	0	0	0	0
All other surveyed institutions	-	146,187	148,062	8,423	0	80,982	79,567	5,190	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$1,098,625 thousand imputed for total and \$1,066,166 thousand reported for federally financed R&D expenditures in engineering in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

^b The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

^c The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.