

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
All institutions	-	13,214,142	13,702,434	14,291,729	15,596,634	7,667,876	8,119,848	8,713,515	9,694,378
Johns Hopkins U. ^a	1	1,147,335 i	1,205,632 i	1,237,980 i	1,324,646 i	1,100,587	1,154,993	1,183,154	1,264,048
Georgia Institute of Technology	2	664,695	695,176	839,071	935,632	506,061	537,693	666,235	739,429
SUNY, Polytechnic Institute	3	350,793	353,542	462,562	411,929	36,816	26,696	24,019	30,702
Texas A&M U., College Station and Health Science Center	4	321,373	357,559	385,656	402,999	77,456	95,138	123,286	138,068
Massachusetts Institute of Technology	5	450,915	419,636	382,569	397,946	230,312	213,108	193,246	215,477
Pennsylvania State U., University Park and Hershey Medical Center	6	350,391	367,730	378,667	385,594	258,324	277,345	284,244	300,829
U. Texas, Austin	7	249,788	259,935	279,730	319,719	160,506	175,426	194,110	216,881
Purdue U., West Lafayette	8	270,525	280,592	285,469	312,394	111,292	122,469	137,052	163,895
U. Michigan, Ann Arbor	9	291,887	283,329	279,682	299,254	175,137	176,141	180,607	189,405
Virginia Polytechnic Institute and State U.	10	258,213	263,711	246,965	260,158	104,138	107,677	108,080	114,336
Utah State U.	11	202,345	226,616	247,332	259,482	183,794	206,998	228,986	239,736
U. Illinois, Urbana-Champaign	12	201,028	203,564	216,233	228,786	130,075	131,529	139,887	144,390
Wichita State U.	13	109,248	134,848	157,430	226,111	22,954	46,023	64,692	88,257
Ohio State U.	14	177,518	175,109	163,509	219,388	85,547	85,038	88,435	103,560
U. California, San Diego	15	172,919	182,495	177,564	212,583	88,846	97,602	100,212	129,923
U. California, Berkeley	16	200,122	209,293	199,711	206,541	81,194	79,645	78,026	93,638
U. Dayton	17	157,016	153,082	180,158	195,856	146,841	145,508	171,865	189,150
Arizona State U.	18	152,395	155,015	145,574	192,681	72,655	80,121	73,746	85,208
U. Colorado Boulder	19	152,391	160,423	177,604	191,531	92,099	105,890	132,769	148,185
U. Washington, Seattle	20	155,076	152,919	157,622	172,004	108,560	114,031	119,758	127,827
North Carolina State U.	21	174,590	174,740	172,900	171,162	91,264	94,592	91,430	88,636
U. Maryland ^b	22	158,814	153,109	154,163	164,304	86,168	86,398	95,898	104,247
U. Wisconsin-Madison	23	126,587	133,600	131,709	148,673	68,617	73,412	75,104	85,549
Stanford U.	24	134,585	130,950	136,251	142,213	79,988	81,391	89,861	89,919
Carnegie Mellon U.	25	95,496	102,955	112,597	138,117	49,854	56,175	63,083	84,680
U. Florida	26	107,598	119,066	122,704	134,339	60,844	62,573	72,191	79,991
Iowa State U.	27	104,798	109,473	123,428	132,475	43,241	62,369	62,113	66,024
U. Minnesota, Twin Cities	28	120,976	120,929	121,637	131,042	71,695	74,167	78,808	84,060
Cornell U.	29	110,545	123,703	118,621	125,320	63,696	69,870	72,771	73,646
U. Delaware	30	66,447	74,258	90,327	123,997	47,975	53,448	68,504	88,552
New York U.	31	99,711	100,207	99,307	119,160	14,986	15,445	18,633	20,507
U. Tennessee, Knoxville ^c	32	116,528	128,542	128,579	115,464	67,165	66,562	66,556	70,892
U. California, Davis	33	92,277	97,951	102,370	114,118	37,549	37,203	43,175	56,254
Rice U.	34	77,299	91,913	100,872	110,648	37,781	42,085	46,799	53,851

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		2019	2020	2021	2022	2019	2020	2021	2022
SUNY, U. Buffalo	35	95,040	112,843	100,194	109,870	50,811	61,140	66,790	67,985
U. Pennsylvania	36	78,444	82,299	88,937	106,282	39,422	44,542	49,526	54,427
U. Notre Dame	37	89,702	84,478	90,572	103,773	40,258	41,771	42,501	50,651
Duke U.	38	100,379	95,657	94,483	102,748	72,560	73,605	74,308	80,356
Clemson U.	39	76,739	76,971	90,038	98,733	39,395	38,214	46,693	62,349
U. California, Los Angeles	40	95,797	93,520	93,906	98,403	52,488	49,163	53,761	65,455
U. California, Santa Barbara	41	67,395	87,681	86,303	97,329	33,589	43,340	44,958	67,267
Harvard U.	42	95,651	97,884	92,782	96,920	45,835	52,801	50,918	47,017
Auburn U., Auburn	43	59,742	70,593	78,720	93,219	25,694	28,796	40,288	47,059
Northeastern U.	44	79,836	89,954	92,723	92,855	61,116	66,614	69,550	72,409
Boston U.	45	78,154	85,651	79,757	91,643	45,017	53,265	48,537	54,675
Woods Hole Oceanographic Institution	46	83,974	84,333	101,989	88,997	72,016	75,442	93,266	82,286
Northwestern U.	47	80,413	77,150	80,735	88,008	47,948	49,383	55,739	56,993
Columbia U. in the City of New York	48	72,596	72,758	75,457	87,884	59,672	62,020	64,962	73,487
U. Arizona	49	75,555	79,463	72,158	84,682	35,880	34,459	34,360	42,072
U. North Dakota	50	54,760	52,511	86,578	84,614	28,684	20,330	35,155	33,233
New Jersey Institute of Technology	51	78,455	85,445	82,240	83,738	53,994	53,702	50,822	48,863
Michigan State U.	52	79,638	82,690	79,360	81,143	29,787	31,431	31,314	34,356
Princeton U.	53	65,000	67,014	67,231	78,831	41,480	40,829	44,201	52,615
Vanderbilt U. and Vanderbilt U. Medical Center	54	94,340	94,674	86,541	78,534	52,742	52,373	43,570	52,364
U. Missouri, Columbia	55	48,028	53,343	56,685	78,494	14,331	16,905	15,905	17,346
U. California, Irvine	56	55,995	59,695	65,454	75,898	24,021	27,421	29,315	40,869
Mississippi State U.	57	60,183	69,220	67,472	73,980	33,935	45,520	44,188	48,255
U. Connecticut	58	44,044	46,751	54,185	68,902	26,390	30,450	37,988	42,418
U. Maine	59	32,368	37,127	46,986	68,261	13,614	18,038	27,452	44,010
U. Massachusetts, Amherst	60	49,745	58,804	60,065	67,776	26,896	28,635	32,063	35,204
U. Pittsburgh, Pittsburgh	61	46,075	53,586	56,681	65,936	31,347	36,623	37,749	43,571
U. Virginia, Charlottesville	62	83,072	72,602	62,271	65,604	43,878	41,454	37,143	42,481
U. Houston	63	51,806	55,210	56,555	64,026	23,838	24,929	26,599	28,251
U. Southern California	64	76,180	78,005	78,179	63,694	52,737	55,089	51,948	54,438
Rensselaer Polytechnic Institute	65	59,831	70,156	67,810	63,146	28,307	28,960	31,832	29,720
U. Texas, Arlington	66	54,450	59,395	58,154	61,467	22,053	22,163	23,581	28,177
U. Kentucky	67	50,743	46,976	52,361	61,287	28,999	26,818	33,001	38,078
Colorado School of Mines	68	44,195	46,694	54,062	60,371	31,066	33,432	37,909	42,745
U. Central Florida	69	62,258	59,627	57,620	59,060	33,413	34,825	36,318	37,217

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		2019	2020	2021	2022	2019	2020	2021	2022
Oregon State U.	70	49,587	50,900	52,731	58,552	36,090	35,946	38,914	44,377
Florida State U.	71	56,352	56,493	52,153	58,212	39,126	38,126	34,492	37,798
Rutgers, State U. New Jersey, New Brunswick	72	92,937	55,880	51,289	57,490	35,917	40,629	35,691	35,877
George Mason U.	73	36,101	52,423	49,826	57,196	31,276	45,977	44,086	50,246
U. Nebraska, Lincoln	74	53,932	51,685	53,927	56,068	20,375	21,149	21,450	22,395
U. California, Santa Cruz	75	39,111	41,752	49,576	55,542	25,568	22,817	33,002	43,539
Montana State U., Bozeman	76	36,521	38,833	51,785	54,188	25,349	28,753	39,190	42,936
Louisiana State U., Baton Rouge	77	45,803	40,084	39,104	53,974	11,587	10,268	11,014	12,249
U. Alabama, Huntsville	78	40,733	51,198	55,510	53,958	31,957	42,499	44,780	43,390
New Mexico Institute of Mining and Technology	79	14,043	13,084	13,002	53,897	13,004	11,869	10,164	45,940
California Institute of Technology	80	46,972	51,693	51,630	51,975	24,690	26,324	24,011	25,812
U. Texas, Dallas	81	48,666	50,812	50,646	51,310	19,512	21,594	24,793	24,404
U. South Florida ^d	82	45,508	37,162	50,547	50,859	22,743	18,073	26,183	27,554
U. Alabama, Tuscaloosa	83	31,845	33,019	43,941	49,885	16,390	19,679	25,859	30,544
U. Iowa	84	50,377	48,433	47,722	49,233	21,473	20,687	23,116	24,367
Florida International U.	85	35,138	39,826	41,740	48,549	19,899	21,747	23,801	31,994
Michigan Technological U.	86	47,435	45,263	46,733	48,400	21,801	23,332	26,289	27,496
Colorado State U., Fort Collins	87	42,609	42,839	41,575	47,833	31,135	30,860	30,424	36,428
U. Utah	88	55,478	57,608	48,225	47,060	32,365	34,915	29,330	35,141
U. Cincinnati	89	46,889	43,098	42,434	46,955	12,015	11,447	12,970	14,790
Texas Tech U.	90	44,057	42,856	41,962	46,952	14,017	14,399	15,359	18,858
Washington State U.	91	39,578	39,533	48,031	45,571	18,943	20,360	23,129	20,359
U. New Mexico	92	37,950	42,739	41,317	45,191	30,449	34,153	33,001	37,091
U. Oklahoma, Norman and Health Science Center	93	26,569	36,643	39,785	44,727	13,783	15,069	15,235	20,850
U. Massachusetts, Lowell	94	33,128	35,847	36,339	44,358	13,443	14,870	18,884	26,414
West Virginia U.	95	42,516	40,786	39,855	43,972	19,835	15,930	18,042	21,919
Stevens Institute of Technology	96	25,832	33,103	33,983	43,702	18,945	23,906	26,766	34,630
Missouri U. of Science and Technology	97	37,912	36,447	43,470	43,119	17,811	16,411	21,797	24,061
U. Chicago	98	23,773	24,468	30,018	41,866	17,275	20,168	25,909	35,751
Case Western Reserve U.	99	41,228	37,911	39,079	41,783	29,335	27,954	30,483	31,686
U. Texas, El Paso	100	26,586	25,172	26,599	40,798	11,995	11,812	15,602	26,326
U. Arkansas, Fayetteville	101	34,590	37,758	37,818	40,691	14,659	18,074	17,980	22,533
New Mexico State U.	102	25,892	25,030	29,884	40,367	17,202	15,583	19,957	29,723
U. Illinois, Chicago	103	28,226	31,496	35,675	39,656	14,707	17,537	21,610	24,287
U. North Carolina, Chapel Hill	104	31,825	30,774	30,935	39,242	19,251	17,813	19,983	22,510

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Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
SUNY, Stony Brook U.	105	28,632	30,180	28,344	38,670	15,637	15,329	17,613	25,968
Drexel U.	106	31,330	31,230	32,665	38,649	20,443	19,772	20,821	27,063
Mercer U.	107	32,624	37,450	40,439	38,452	25,358	29,625	31,923	29,959
Yale U.	108	36,591	36,806	35,778	36,714	24,674	24,172	23,578	23,926
Dartmouth C. and Dartmouth Hitchcock Medical Center	109	31,110	31,140	33,559	36,219	21,279	21,064	24,126	25,052
Oklahoma State U., Stillwater	110	32,947	33,983	35,094	36,217	11,962	11,969	15,319	16,574
CUNY, City C.	111	28,337	23,140	34,710	36,189	16,998	15,704	18,078	19,125
U. South Carolina, Columbia	112	31,748	37,747	36,222	35,508	16,076	13,921	16,470	21,003
SUNY, Binghamton U.	113	30,434	32,668	39,529	33,595	6,356	6,526	7,463	8,326
U.S. Air Force Academy	114	28,489	29,812	29,132	33,169	28,489	29,812	28,914	32,709
U. California, Riverside	115	29,020	31,937	34,888	32,758	16,217	17,034	18,541	21,080
Tufts U.	116	31,630	26,662	24,017	32,535	26,143	20,397	19,362	19,796
U. Nevada, Reno	117	23,568	23,939	27,769	32,454	8,785	9,664	11,419	11,896
U. Louisiana, Lafayette	118	28,397	27,878	30,295	32,259	4,247	3,557	6,909	9,736
Worcester Polytechnic Institute	119	21,029	23,758	27,108	31,514	11,735	13,084	16,095	18,401
U. Alabama, Birmingham	120	47,555	53,030	46,844	30,637	37,724	44,243	43,477	22,205
Virginia Commonwealth U.	121	26,072	29,811	32,233	30,592	9,482	11,779	9,924	9,441
Kansas State U.	122	27,439	28,155	27,743	29,980	12,503	12,530	13,810	15,266
Brown U.	123	23,448	23,965	23,587	29,569	17,289	17,138	15,963	18,304
Lehigh U.	124	23,447	24,054	25,835	28,948	15,374	16,205	16,976	19,098
U. Wyoming	125	19,550	20,317	24,675	28,379	6,075	4,640	7,391	17,026
Old Dominion U.	126	19,294	25,869	25,811	28,288	8,179	11,802	9,683	11,184
Washington U., Saint Louis	127	23,090	23,821	26,574	28,151	18,895	19,552	22,291	24,042
Air Force Institute of Technology	128	20,525	23,947	26,780	27,794	14,015	15,238	17,065	21,622
U. New Hampshire	129	23,861	23,457	22,509	25,040	12,286	11,466	8,984	9,665
U. Hawaii, Manoa	130	17,089	25,423	23,966	24,574	10,777	17,536	16,553	17,241
U. Texas, San Antonio	131	19,928	22,922	21,499	24,403	5,949	5,961	7,346	10,333
George Washington U.	132	21,712	22,682	22,749	23,736	14,597	15,091	15,052	13,339
U. Louisville	133	16,302	18,105	20,965	23,630	8,248	9,077	11,844	14,712
U. North Texas, Denton	134	15,773	15,205	18,285	23,078	5,962	3,805	7,232	10,227
Rochester Institute of Technology	135	20,264	20,910	20,874	22,869	8,136	7,965	10,659	10,560
U. Georgia	136	18,444	19,273	20,289	22,379	6,292	7,208	8,139	10,503
U. Rochester	137	14,872	16,116	16,780	22,179	11,814	12,764	14,213	17,031
U. Kansas	138	20,869	19,830	21,363	22,075	14,177	13,829	12,206	13,244
Syracuse U.	139	25,412	24,272	24,698	21,602	7,616	7,696	8,013	7,290

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Naval Postgraduate School	140	22,498	22,933	24,254	21,556	20,124	20,145	20,798	13,920
North Dakota State U.	141	12,030	14,007	13,963	20,187	3,254	3,085	4,341	10,191
Brigham Young U., Provo	142	14,001	15,943	20,162	19,599	9,188	11,438	15,694	15,386
North Carolina A&T State U.	143	11,766	10,393	11,616	18,186	9,713	8,664	9,071	10,157
U. Alaska, Fairbanks	144	14,922	17,843	17,314	17,869	9,090	11,998	11,355	12,504
Ohio U.	145	19,502	16,291	16,645	17,216	5,252	4,454	5,340	5,209
South Dakota School of Mines and Technology	146	11,226	12,677	13,658	17,162	7,570	8,887	9,834	12,779
Florida Atlantic U.	147	11,450	10,574	17,064	16,449	7,007	6,955	11,045	9,749
Emory U.	148	9,614	11,349	11,488	16,415	6,256	8,676	8,356	10,545
Embry-Riddle Aeronautical U.	149	8,374	12,015	11,279	16,049	6,291	7,943	9,272	14,083
Rowan U.	150	8,447	11,784	11,570	15,432	4,229	7,616	8,035	9,274
U. North Carolina, Charlotte	151	16,000	19,781	15,643	15,096	7,845	8,853	9,381	8,783
Oakland U.	152	3,836	1,041	4,437	14,783	720	233	953	1,572
Boise State U.	153	11,688	13,956	14,918	14,758	6,377	8,245	9,596	11,149
Cleveland State U.	154	17,278	16,225	12,371	14,519	11,036	11,055	7,748	9,597
San Diego State U.	155	8,197	7,934	10,715	14,048	3,801	3,851	4,553	5,043
U. Idaho	156	17,497	17,035	12,944	13,720	8,525	8,376	6,705	7,063
Wayne State U.	157	14,634	12,806	11,675	13,632	6,640	5,947	5,695	6,722
Oregon Health and Science U.	158	12,134	12,856	13,526	13,373	10,649	9,549	10,841	10,647
U. Nevada, Las Vegas	159	15,736	12,729	10,667	12,665	6,161	4,946	4,037	5,031
Illinois Institute of Technology	160	15,241	11,934	13,737	12,502	12,061	9,230	11,070	10,795
Clarkson U.	161	10,889	9,363	10,113	12,446	5,883	4,584	4,577	5,180
U. Missouri, Kansas City	162	7,089	8,351	9,174	12,219	5,349	6,902	7,506	9,153
Indiana U., Bloomington	163	11,265	14,373	13,012	12,030	4,864	6,314	5,752	7,149
U. California, Merced	164	13,852	15,191	13,854	11,997	4,652	5,760	4,627	5,007
U. Toledo	165	11,256	10,023	10,299	11,957	6,062	5,921	7,574	8,517
U. Rhode Island	166	10,632	10,182	10,766	11,931	7,329	6,939	7,962	9,997
U. Memphis	167	9,464	10,741	9,464	11,825	2,489	2,513	2,275	4,518
Louisiana Tech U.	168	11,513	11,459	11,257	11,673	4,263	4,582	4,117	3,120
U. Vermont	169	7,864	11,209	11,914	11,621	5,190	4,853	5,537	5,794
Howard U.	170	8,401	8,336	9,535	10,431	6,046	6,241	7,420	8,156
Marquette U.	171	8,988	10,059	9,027	10,278	3,033	4,291	3,866	5,605
U. Nebraska, central administration	172	1,687	8,340	8,060	10,082	1,687	8,340	7,510	8,584
Texas State U.	173	4,611	6,892	9,321	9,722	623	746	1,537	2,429
U. Tulsa	174	13,213	13,182	10,926	9,554	1,520	1,387	2,410	1,557

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Western Michigan U. and Homer Stryker M.D. School of Medicine	175	5,595	5,091	8,058	9,515	1,945	1,580	4,194	3,994
Villanova U.	176	9,612	10,193	9,484	9,453	1,543	1,375	2,122	1,949
Baylor U.	177	3,720	4,515	7,241	9,061	1,440	1,271	1,598	2,307
South Dakota State U.	178	5,516	5,490	7,161	8,977	2,925	2,674	3,854	4,783
Temple U.	179	8,042	9,294	8,279	8,898	3,830	4,758	4,734	4,494
Texas A&M U.-Corpus Christi	180	7,193	7,064	6,590	8,737	2,020	2,800	2,340	4,257
Missouri State U.	181	3,234	10,257	7,024	8,630	3,176	10,096	6,872	8,396
U. Puerto Rico, Mayaguez	182	16,446	16,903	11,397	8,482	8,892	9,428	8,136	7,325
U. Massachusetts, Dartmouth	183	7,764	7,944	8,049	8,480	2,696	2,170	2,434	2,245
California Polytechnic State U., San Luis Obispo	184	4,117	4,646	5,522	8,472	1,566	1,338	2,636	5,436
Southern Illinois U., Edwardsville	185	2,348	1,424	1,786	8,439	475	240	208	204
Morgan State U.	186	3,990	7,228	8,031	8,375	3,376	4,847	5,001	5,514
California State U., Sacramento	187	7,507	7,744	5,986	8,253	3,443	3,150	2,687	3,718
U. Wisconsin-Milwaukee	188	9,915	9,683	8,577	8,246	2,537	2,940	3,193	2,907
U. Maryland, Baltimore County	189	8,429	6,671	6,668	8,140	4,862	4,651	4,657	4,079
U. Mississippi	190	8,821	13,661	6,033	8,095	4,752	12,422	4,487	3,779
U. Texas Rio Grande Valley	191	3,573	4,018	5,354	7,844	1,134	1,761	2,885	4,536
Medical C. Wisconsin	192	7,800	8,542	7,560	7,618	6,029	6,389	5,221	5,046
U. Akron	193	16,650	11,345	7,714	7,558	6,447	5,096	3,985	4,632
Tennessee Technological U.	194	7,267	7,559	8,455	7,436	2,402	2,756	3,392	2,549
U. Southern Mississippi	195	3,371	5,999	5,963	7,380	3,286	1,823	1,970	2,661
Southern Methodist U.	196	9,207	9,798	9,972	7,313	5,145	5,103	3,590	2,769
San Jose State U.	197	1,864	2,863	3,664	6,968	1,029	1,575	700	1,323
Wright State U.	198	39,164	29,519	8,129	6,843	25,868	23,496	6,695	5,696
Tulane U.	199	8,416	6,881	6,662	6,823	4,170	4,050	4,016	3,801
California State Polytechnic U., Humboldt	200	5,232	4,261	5,564	6,779	16	153	208	197
U. Michigan, Dearborn	201	6,832	7,088	6,223	6,703	1,129	1,681	1,907	2,030
U.S. Military Academy	202	3,799	5,297	7,772	6,640	3,799	5,252	7,334	6,086
Indiana U.-Purdue U., Indianapolis	203	6,730	7,177	6,604	6,626	3,298	4,354	4,040	4,375
U.S. Naval Academy	204	7,482	7,376	6,719	6,342	7,311	7,202	6,604	6,197
U. South Alabama	205	2,411	3,640	5,085	6,231	1,467	2,624	3,209	4,296
U. Miami	206	5,400	5,060	4,527	5,961	2,532	2,128	2,816	4,423
Florida A&M U.	207	4,477	4,796	5,222	5,752	4,057	4,492	4,852	5,427
U. of the District of Columbia	208	708	1,388	3,134	5,725	708	1,388	3,134	5,725
Portland State U.	209	9,160	6,719	6,668	5,582	4,887	4,113	4,021	3,752

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
Prairie View A&M U.	210	5,121	5,222	4,687	5,305	3,183	3,184	2,885	3,849
Brandeis U.	211	0	1,048	2,221	5,264	0	0	824	147
Florida Institute of Technology	212	4,782	5,362	5,891	5,100	2,391	3,305	2,903	2,818
Idaho State U.	213	4,039	5,014	4,411	4,752	1,203	2,491	2,022	2,430
U. Oregon	214	541	0	0	4,656	505	0	0	3,729
Miami U.	215	3,070	3,783	4,356	4,474	361	667	532	843
Montana Technological U.	216	4,428	4,331	5,834	4,473	3,606	3,161	4,639	3,779
SUNY, U. Albany	217	3,087	3,319	3,133	4,266	512	1,039	1,393	1,355
Northern Arizona U.	218	2,613	4,996	6,497	4,194	1,106	3,649	4,910	2,709
U. Puerto Rico, Rio Piedras	219	37	341	1,152	4,135	37	270	1,152	3,900
Northern Illinois U.	220	1,418	1,467	4,134	4,132	222	246	1,856	2,039
Texas A&M U.-Kingsville	221	1,827	2,653	4,622	4,044	1,187	1,830	2,923	2,819
U. Colorado Denver ^e	222	na	na	3,695	3,906	na	na	3,152	3,398
U. Tennessee, Chattanooga	223	2,460	3,319	3,578	3,823	1,216	2,277	2,574	2,622
California State U., Long Beach	224	4,223	4,733	4,574	3,671	2,109	2,533	2,942	2,181
U. Denver	225	4,010	4,461	3,558	3,632	1,879	2,109	1,037	1,180
Lamar U.	226	1,609	1,825	2,437	3,536	442	838	635	445
Milwaukee School of Engineering	227	3,825	3,105	3,129	3,480	695	613	704	904
Alfred U.	228	5,032	2,720	2,654	3,458	1,459	887	933	991
Marshall U.	229	1,158	1,137	2,475	3,333	502	434	1,671	2,375
Georgia Southern U.	230	1,257	1,929	4,052	3,302	174	301	804	468
New School	231	2,828	3,205	3,793	3,301	99	116	422	294
Catholic U. of America	232	2,587	3,518	3,926	3,076	1,961	2,925	2,680	2,099
Youngstown State U.	233	3,993	3,491	1,794	3,058	2,667	2,818	1,261	2,525
Tuskegee U.	234	5,372	5,922	5,528	2,955	4,097	4,177	4,213	2,099
East Carolina U.	235	2,015	3,053	3,069	2,737	475	366	1,376	2,178
California State U., Northridge	236	714	1,115	1,216	2,621	604	926	1,069	2,377
Purdue U., Northwest	237	1,352	2,521	2,220	2,606	376	1,128	1,032	1,846
Jackson State U.	238	3,354	1,468	2,236	2,512	2,908	1,262	1,817	1,905
U. North Florida	239	2,392	2,433	2,119	2,472	360	304	316	258
CUNY, system office	240	1,001	1,132	1,137	2,447	912	662	731	718
San Francisco State U.	241	1,284	2,251	2,386	2,423	371	981	990	1,174
Franklin W. Olin C. of Engineering	242	534	491	936	2,380	111	255	636	805
Morehead State U.	243	806	1,271	756	2,312	754	1,208	756	1,799
Pittsburg State U.	244	1,990	1,659	2,250	2,309	12	50	314	600

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
Southern Illinois U., Carbondale	245	2,905	2,333	3,120	2,308	392	180	606	587
Virginia State U.	246	793	1,058	1,273	2,260	165	210	321	1,407
U. North Carolina, general administration	247	2,239	2,467	2,068	2,232	189	552	306	268
U. New Orleans	248	2,376	2,282	1,897	2,134	344	250	204	341
CUNY, Advanced Science Research Center	249	1,379	2,289	2,928	2,083	1,289	1,968	1,845	1,347
North Carolina Central U.	250	1,212	2,675	1,773	2,074	789	1,929	959	1,395
Western Illinois U.	251	409	79	780	1,983	321	71	780	1,983
California State U., Fresno	252	1,492	1,748	1,290	1,970	419	526	474	971
U. Alaska, Anchorage	253	1,393	1,101	1,674	1,957	562	644	869	1,074
Southern U. and A&M C., Baton Rouge	254	1,905	1,424	2,282	1,938	1,454	1,360	2,185	1,851
Alabama A&M U.	255	2,354 i	1,603 i	1,787 i	1,925 i	1,581 i	1,078 i	1,500 i	1,861 i
U. Minnesota, Duluth	256	2,399	2,186	2,392	1,892	319	180	341	322
U. Colorado Colorado Springs	257	694	1,367	902	1,883	649	877	488	1,134
Kent State U.	258	2,330	2,743	3,732	1,847	1,860	1,278	830	553
Pennsylvania State U., Behrend	259	1,508	1,232	2,395	1,799	408	337	610	1,039
California State Polytechnic U., Pomona	260	1,085	1,875	1,516	1,759	728	1,141	1,040	1,298
Santa Clara U.	261	876	948	1,588	1,741	215	393	814	1,061
West Texas A&M U.	262	1,178	1,277	1,400	1,713	477	500	673	915
Norfolk State U.	263	1,940	1,312	1,413	1,656	1,940	1,312	1,081	1,597
Kennesaw State U.	264	617	1,478	1,858	1,652	105	74	289	351
U. Texas Medical Branch	265	1,596	1,192	1,259	1,643	411	276	425	555
Bucknell U.	266	1,632	1,690 i	1,494	1,589	533	554 i	543	660
U. Arkansas, Little Rock	267	2,116	1,627	809	1,571	1,224	950	708	1,366
Saint Louis U.	268	2,344	2,621	1,999	1,559	1,176	1,549	1,183	768
U. Nebraska, Omaha	269	993	1,195	1,051	1,510	683	859	545	988
Western New England U.	270	ne	ne	ne	1,464	ne	ne	ne	395
U. South Dakota	271	3,243	1,385	1,429	1,447	1,280	440	731	859
Wake Forest U.	272	385	859	1,204	1,427	148	208	544	804
California State U., Los Angeles	273	879 i	922	1,486	1,423	688	806	1,067	1,414
U. Oklahoma, Tulsa	274	1,549	1,816	1,289	1,368	919	1,066	421	662
Florida Polytechnic U.	275	1,739	689	829	1,310	283	159	312	493
SUNY, C. of Environmental Science and Forestry	276	1,339	912	1,085	1,291 i	259	158	396	484
Tennessee State U.	277	1,207	2,922	1,768 i	1,278	824	2,584	1,755 i	1,265
U. Massachusetts, Boston	278	1,255	1,206	1,266	1,218	533	547	498	635
Hampton U.	279	1,049	866	827	1,215	1,049	866	827	1,215

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed										
		2019	2020	2021	2022	2019	2020	2021	2022							
SUNY, Cobleskill	280	ne	ne	ne	1,211	ne	ne	ne	379							
California State U., Chico	281	567	1,120	1,236	1,192	179	613	768	636							
New York Institute of Technology	282	1,045	458	775	1,181	697	372	666	1,082							
Montclair State U.	283	0	14	104	1,129	0	0	5	49							
California State U., Fullerton	284	609	616	661	1,062	288	534	530	639							
U. Ana G. Mendez, Gurabo	285	2,324	884	1,034	996	i	575	365	667	987	i					
U. Colorado Anschutz Medical Campus ^e	286	na	na	1,204	957	na	na	1,189	730							
U. Central Oklahoma	287	0	1	i	1	i	928	i	0	1	i	392	i			
Oregon Institute of Technology	288	798	i	679	i	761	i	902	i	272	i	203	71	i	96	i
Manhattan C.	289	809	716	1,122	899	167	170	68	58							
Middle Tennessee State U.	290	59	182	592	889	3	76	100	288							
Minnesota State U., Mankato	291	1,472	1,486	996	871	174	244	170	0							
U. of St. Thomas (MN)	292	407	976	3,212	862	25	19	565	285							
U. San Diego	293	776	1,252	980	820	633	686	692	518							
James Madison U.	294	313	305	174	808	181	186	54	161							
U. Texas of the Permian Basin	295	ne	217	792	797	ne	82	270	509							
U. of the Virgin Islands	296	61	902	832	790	61	834	809	790							
South Carolina State U.	297	662	687	i	712	773	662	687	i	712	i	773	i			
U. Hartford	298	1,300	1,002	963	752	791	605	585	694							
Lawrence Technological U.	299	882	806	555	726	210	227	141	382							
Tarleton State U.	300	61	156	166	685	0	0	0	0							
California State U., San Bernardino	301	2,434	1,598	1,382	658	0	0	0	0							
U. Tennessee, Health Science Center	302	610	648	687	640	0	0	0	0							
Fort Lewis C.	303	760	505	605	623	702	477	563	592							
Savannah State U.	304	526	639	588	609	526	639	588	609							
Harvey Mudd C.	305	884	628	515	608	440	175	256	237							
Smith C.	306	553	952	688	599	463	725	571	426							
U. Detroit Mercy	307	227	119	114	560	59	75	64	510							
Western Washington U.	307	832	989	587	560	336	475	230	227							
U. Texas, Tyler	309	394	344	537	542	71	47	115	212							
Chapman U.	310	0	102	348	539	0	43	8	82							
U. North Carolina, Wilmington	311	1,226	640	1,064	537	484	335	297	182							
Pace U.	312	435	516	706	529	404	464	626	529							
California State U., San Marcos	313	797	2,408	1,682	527	797	2,408	1,680	504							
Hofstra U.	314	521	299	528	521	506	288	478	352							

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
Western Kentucky U.	315	597	689	604	510	2	68	82	135
Arkansas State U., Jonesboro	316	553	371	384	508	180	144	248	367
Central Michigan U.	317	559	736	412	499	162	84	95	48
Alabama State U.	318	0	533	366	483	0	533	73	267
U. Wisconsin-Green Bay	319	353 i	338 i	327 i	465 i	147 i	159 i	167 i	199 i
U. West Florida	320	21	277	709	450	0	196	265	14
Union C., Schenectady	321	118	204	722	446	10	81	595	359
California State U., Bakersfield	322	2,050	1,449	839	440	1,453	1,179	751	302
Boston C.	323	0	0	50	438	0	0	0	0
Christopher Newport U.	324	575	566	656	437	575	566	656	437
Hope C.	325	128	175	277	430	116	138	232	374
Kettering U.	326	1,354	1,046	295	424	184	114	3	0
Eastern Michigan U.	327	304	402	427	407	9	102	81	76
Wellesley C.	328	0	633	345	395	0	633	345	395
California State U., Maritime Academy	329	2,959	3,202	2,603	388	617	621	450	84
U. Washington, Bothell	330	161	0	304	387	146	0	304	387
Lafayette C.	331	184	251	201	384	107	139	84	222
Citadel Military C. South Carolina	332	ne	34	250	363	ne	13	136	222
Western Carolina U.	332	365	371	305	363	269	291	237	134
U. of the Incarnate Word	334	47	72	186	339	0	0	139	331
U. New Haven	335	1,013	533	319	329	485	238	81	64
Central State U.	336	340	166	211	314	340	166	211	314
Utah Valley U.	337	ne	ne	ne	310	ne	ne	ne	180
U. Wisconsin-Superior	338	4	9	207	297	4	9	32	71
U. Wisconsin-Oshkosh	339	146 i	152 i	158	294	74 i	74 i	73	252
C. New Jersey	340	ne	105	283	265	ne	8	133	133
Sam Houston State U.	341	21	20	36	253	0	0	0	167
U. Washington, Tacoma	342	0	59	319	250	0	59	314	250
Appalachian State U.	343	5	0	0	237	0	0	0	42
U. South Carolina, Aiken	344	1,520	1,331	1,322	231	1,453	1,331	1,322	128
U. Southern Maine	345	23	27	159	228	0	0	32	72
Northwest Indian C.	346	0	164 i	196 i	227	0	164 i	196 i	227
Alcorn State U.	347	343	133	181	222 i	330	126	178	219 i
Florida Gulf Coast U.	347	59	250	145	222	56	47	0	84
Roger Williams U.	349	36	30	32	221	0	0	17	44

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
Swarthmore C.	350	314	367	174	215	55	0	50	51
Delaware State U.	351	2,248	316	308	207	1,218	172	198	137
U. Wisconsin-Platteville	352	145	145	171	204	68	67	80	99
U. Virginia's C. Wise	353	ne	ne	0	197	ne	ne	0	156
CUNY, Hunter C.	354	0	0	0	191	0	0	0	191
Central Connecticut State U.	355	119	120	100	185	87	94	71	143
Coastal Carolina U.	356	0	0	68	175	0	0	68	159
Purdue U., Fort Wayne	357	221	443	465	169	160	194	125	92
Pennsylvania State U., Harrisburg	358	312	74	386	160	15	44	219	74
C. Charleston	359	0	67	72	158	0	67	72	158
Robert Morris U.	360	ne	ne	ne	144	ne	ne	ne	103
Seattle U.	361	283	140	62	137	72	10	10	48
U. of the Pacific	362	68	89	228	135	68	89	228	135
California State U., East Bay	363	ne	132	306	133	ne	41	0	0
Calvin U.	364	111	84	107	129	21	33	34	33
Fayetteville State U.	365	0	0	288	127	0	0	288	127
Texas A&M International U.	365	30	71	241	127	3	28	65	66
Illinois State U.	367	0	0	0	125	0	0	0	0
Virginia Military Institute	368	ne	ne	ne	119	ne	ne	ne	51
Grand Valley State U.	369	400	236	118	117	0	0	0	0
U. Wisconsin-Stevens Point	370	52	60	241	111	40	47	132	0
Texas A&M U.-San Antonio	371	ne	ne	ne	104	ne	ne	ne	0
Loyola U., Chicago	372	0	0	0	95	0	0	0	0
Texas Christian U.	373	73	46	36	88	0	8	8	84
Indiana State U.	374	1	4	2	87	0	0	0	70
Bowling Green State U.	375	60	121	57	80	0	0	35	42
Thomas Jefferson U.	376	0	143	55	77	0	59	55	77
DePaul U.	377	0	0	0	76	0	0	0	76
U. Houston-Downtown	378	42	36	189	71	0	28	189	71
Trinity U.	379	103	80	47	69	0	0	0	7
Duquesne U.	380	525	374	102	66	179	146	0	21
Claflin U.	381	145	170	65	63	144	170	65	63
U. Maryland, Eastern Shore	382	40	128	144	59	0	125	125	59
Loyola Marymount U.	383	160	165	234	57	0	0	0	0
Troy U.	384	ne	0	0	56	ne	0	0	56

TABLE 55

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2022 total: FYs 2019–22

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2019	2020	2021	2022	2019	2020	2021	2022
Johnson C. Smith U.	385	0	364	57 i	52	0	364	57 i	52
CUNY, New York City C. of Technology	386	478	367	103	50	442	353	93	33
Texas A&M U.-Commerce	387	28	48	64	48	0	0	0	0
Trinity C., Hartford	388	86	49	45	42	19	13	1	13
Clark Atlanta U.	389	214	158	36	41	44	0	11	41
Lake Superior State U.	389	ne	ne	ne	41	ne	ne	ne	0
Central Washington U.	391	70	61	72	32	4	34	45	25
Kean U.	391	ne	0	0	32	ne	0	0	0
St. Cloud State U.	393	121	71	31	30	0	0	0	0
Abilene Christian U.	394	ne	ne	45	29	ne	ne	45	29
East Tennessee State U.	395	2 i	65 i	138 i	27 i	2	52	101	0
Southeastern Louisiana U.	396	0	4	16	24	0	3	8	6
Texas Southern U.	396	130	104	27	24	130	76	27	7
SUNY, Buffalo State	398	0	0	0	23	0	0	0	23
U. Houston-Clear Lake	399	5	2	0	21	0	0	0	13
Elon U.	400	87	45	29	18	68	25	13	0
Suffolk U.	400	ne	76	66	18	ne	76	66	18
Sonoma State U.	402	ne	1	1	17	ne	0	0	0
Hawaii Pacific U.	403	10	13	13	14	10	13	13	14
Azusa Pacific U.	404	50	31	5	10	0	0	0	0
Fisk U.	404	0	0	0	10	0	0	0	0
Northwestern State U. Louisiana	406	0	5	0	8	0	0	0	0
Dillard U.	407	0	0	0	7	0	0	0	7
Northeastern Illinois U.	407	0	0	0	7	0	0	0	7
U. Guam	409	0	0	0	6	0	0	0	6
California State U., Channel Islands	410	0	0	79	4	0	0	79	1
Marymount U.	411	ne	ne	0	3	ne	ne	0	0
Northeast Ohio Medical U.	411	0	0	0	3	0	0	0	2
Salisbury U.	411	0	0	3	3	0	0	0	0
U. San Francisco	411	0	6	3	3	0	0	0	0
Biola U.	415	2 i	2 i	2 i	2	0 i	0 i	0 i	0
U. Puget Sound	416	ne	0	ne	1	ne	0	ne	0
All other surveyed institutions	-	16,131	11,058	2,080	0	9,978	7,362	1,079	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 \$1,193,795 thousand imputed for total and \$1,154,078 thousand reported for federally financed R&D expenditures in engineering in FY 2022. 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.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2022 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.