

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
All institutions	-	12,363,648	13,214,628	13,707,821	14,293,487	7,093,674	7,668,193	8,121,089	8,714,829
Johns Hopkins U. <sup>a</sup>	1	1,087,478 i	1,147,335 i	1,205,632 i	1,237,980 i	1,038,797	1,100,587	1,154,993	1,183,154
Georgia Institute of Technology	2	613,650	664,695	695,176	839,071	466,780	506,061	537,693	666,235
SUNY, Polytechnic Institute	3	255,033	350,793	353,542	462,562	39,897	36,816	26,696	24,019
Texas A&M U., College Station and Health Science Center	4	300,956	321,373	357,559	385,656	70,000	77,456	95,138	123,286
Massachusetts Institute of Technology	5	431,927	450,915	419,636	382,569	220,744	230,312	213,108	193,246
Pennsylvania State U., University Park and Hershey Medical Center	6	325,002	350,391	367,730	378,667	244,868	258,324	277,345	284,244
Purdue U., West Lafayette	7	229,967	270,525	280,592	285,469	105,657	111,292	122,469	137,052
U. Texas, Austin	8	242,963	249,788	259,935	279,730	154,761	160,506	175,426	194,110
U. Michigan, Ann Arbor	9	299,072	291,887	283,329	279,682	178,020	175,137	176,141	180,607
Utah State U.	10	140,407	202,345	226,616	247,332	124,950	183,794	206,998	228,986
Virginia Polytechnic Institute and State U.	11	245,755	258,213	263,711	246,965	98,261	104,138	107,677	108,080
U. Illinois, Urbana-Champaign	12	195,413	201,028	203,564	216,233	126,826	130,075	131,529	139,887
U. California, Berkeley	13	200,668	200,122	209,293	199,711	75,316	81,194	79,645	78,026
U. Dayton	14	139,036	157,016	153,082	180,158	127,079	146,841	145,508	171,865
U. Colorado Boulder	15	171,965	152,391	160,423	177,604	86,829	92,099	105,890	132,769
U. California, San Diego	16	150,596	172,919	182,495	177,564	73,246	88,846	97,602	100,212
North Carolina State U.	17	166,680	174,590	174,740	172,900	84,304	91,264	94,592	91,430
Ohio State U.	18	183,646	177,518	175,109	163,509	84,724	85,547	85,038	88,435
U. Washington, Seattle	19	149,931	155,076	152,919	157,622	103,714	108,560	114,031	119,758
Wichita State U.	20	63,328	109,248	134,848	157,430	13,677	22,954	46,023	64,692
U. Maryland <sup>b</sup>	21	na	158,814	153,109	154,163	na	86,168	86,398	95,898
Arizona State U.	22	142,175	152,395	155,015	145,574	61,096	72,655	80,121	73,746
Stanford U.	23	146,504	134,585	130,950	136,251	91,628	79,988	81,391	89,861
U. Wisconsin-Madison	24	118,576	126,587	133,600	131,709	63,684	68,617	73,412	75,104
U. Tennessee, Knoxville <sup>c</sup>	25	128,675	116,528	128,542	128,579	62,428	67,165	66,562	66,556
Iowa State U.	26	99,214	104,798	109,473	123,428	43,677	43,241	62,369	62,113
U. Florida	27	93,580	107,598	119,066	122,704	49,486	60,844	62,573	72,191
U. Minnesota, Twin Cities	28	124,637	120,976	120,929	121,637	67,776	71,695	74,167	78,808
Cornell U.	29	92,590	110,545	123,703	118,621	55,763	63,696	69,870	72,771
Carnegie Mellon U.	30	99,201	95,496	102,955	112,597	53,672	49,854	56,175	63,083
U. California, Davis	31	89,128	92,277	97,951	102,370	35,375	37,549	37,203	43,175
Woods Hole Oceanographic Institution	32	61,221	83,974	84,333	101,989	52,285	72,016	75,442	93,266
Rice U.	33	67,934	77,299	91,913	100,872	34,520	37,781	42,085	46,799

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**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
SUNY, U. Buffalo	34	95,234	95,040	112,843	100,194	53,279	50,811	61,140	66,790
New York U.	35	85,767	99,711	100,207	99,307	13,790	14,986	15,445	18,633
Duke U.	36	92,715	100,379	95,657	94,483	64,601	72,560	73,605	74,308
U. California, Los Angeles	37	91,799	95,797	93,520	93,906	50,048	52,488	49,163	53,761
Harvard U.	38	96,786	95,651	97,884	92,782	51,742	45,835	52,801	50,918
Northeastern U.	39	65,147	79,836	89,954	92,723	48,634	61,116	66,614	69,550
U. Notre Dame	40	77,243	89,702	84,478	90,572	36,062	40,258	41,771	42,501
U. Delaware	41	52,932	66,447	74,258	90,327	37,656	47,975	53,448	68,504
Clemson U.	42	73,506	76,739	76,971	90,038	33,781	39,395	38,214	46,693
U. Pennsylvania	43	67,574	78,444	82,299	88,937	36,750	39,422	44,542	49,526
U. North Dakota	44	52,960	54,760	52,511	86,578	30,506	28,684	20,330	35,155
Vanderbilt U. and Vanderbilt U. Medical Center	45	87,250	94,340	94,674	86,541	47,036	52,742	52,373	43,570
U. California, Santa Barbara	46	77,535	67,395	87,681	86,303	35,964	33,589	43,340	44,958
New Jersey Institute of Technology	47	69,735	78,455	85,445	82,240	41,611	53,994	53,702	50,822
Northwestern U.	48	81,662	80,413	77,150	80,735	48,724	47,948	49,383	55,739
Boston U.	49	83,013	78,154	85,651	79,757	42,903	45,017	53,265	48,537
Michigan State U.	50	77,165	79,638	82,690	79,360	27,900	29,787	31,431	31,314
Auburn U., Auburn	51	56,233	59,742	70,593	78,720	21,497	25,694	28,796	40,288
U. Southern California	52	72,961	76,180	78,005	78,179	46,803	52,737	55,089	51,948
Columbia U. in the City of New York	53	72,301	72,596	72,758	75,457	61,834	59,672	62,020	64,962
U. Arizona	54	70,100	75,555	79,463	72,158	30,716	35,880	34,459	34,360
Rensselaer Polytechnic Institute	55	57,190	59,831	70,156	67,810	28,136	28,307	28,960	31,832
Mississippi State U.	56	48,399	60,183	69,220	67,472	24,187	33,935	45,520	44,188
Princeton U.	57	67,450	65,000	67,014	67,231	42,147	41,480	40,829	44,201
U. California, Irvine	58	70,449	55,995	59,695	65,454	26,914	24,021	27,421	29,315
U. Virginia, Charlottesville	59	70,000	83,072	72,602	62,271	38,600	43,878	41,454	37,143
U. Massachusetts, Amherst	60	54,219	49,745	58,804	60,065	27,568	26,896	28,635	32,063
U. Texas, Arlington	61	48,513	54,450	59,395	58,154	20,698	22,053	22,163	23,581
U. Central Florida	62	62,734	62,258	59,627	57,620	33,002	33,413	34,825	36,318
U. Missouri, Columbia	63	44,864	48,028	53,343	56,685	12,483	14,331	16,905	15,905
U. Pittsburgh, Pittsburgh	64	44,995	46,075	53,586	56,681	27,599	31,347	36,623	37,749
U. Houston	65	50,047	51,806	55,210	56,555	21,593	23,838	24,929	26,599
U. Alabama, Huntsville	66	34,105	40,733	51,198	55,510	24,961	31,957	42,499	44,780
U. Connecticut	67	39,907	44,044	46,751	54,185	22,920	26,390	30,450	37,988

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Colorado School of Mines	68	35,504	44,195	46,694	54,062	23,277	31,066	33,432	37,909
Oregon State U.	69	49,271	49,587	50,900	52,731	34,437	36,090	35,946	38,914
U. Kentucky	70	47,821	50,743	46,976	52,361	25,067	28,999	26,818	33,001
Florida State U.	71	56,281	56,352	56,493	52,153	39,060	39,126	38,126	34,492
Montana State U., Bozeman	72	25,643	36,521	38,833	51,785	18,950	25,349	28,753	39,190
California Institute of Technology	73	45,494	46,972	51,693	51,630	22,700	24,690	26,324	24,011
Rutgers, State U. New Jersey, New Brunswick	74	104,371	92,937	55,880	51,289	35,299	35,917	40,629	35,691
U. Nebraska, Lincoln	75	49,434	53,932	51,685	51,287	18,358	20,375	21,149	21,450
U. Texas, Dallas	76	43,363	48,666	50,812	50,646	15,884	19,512	21,594	24,793
U. South Florida <sup>d</sup>	77	45,487	45,508	37,162	50,547	24,747	22,743	18,073	26,183
George Mason U.	78	15,785	36,101	52,423	49,826	13,550	31,276	45,977	44,086
U. California, Santa Cruz	79	29,724	39,111	41,752	49,576	18,845	25,568	22,817	33,002
U. Utah	80	42,053	55,478	57,608	48,225	25,847	32,365	34,915	29,330
Washington State U.	81	43,674	39,578	39,533	48,031	19,156	18,943	20,360	23,129
U. Iowa	82	50,848	50,377	48,433	47,722	22,494	21,473	20,687	23,116
U. Maine	83	27,459	32,368	37,127	46,986	10,014	13,614	18,038	27,452
U. Alabama, Birmingham	84	48,102	47,555	53,030	46,844	38,086	37,724	44,243	43,477
Michigan Technological U.	85	45,745	47,435	45,263	46,733	19,638	21,801	23,332	26,289
U. Alabama, Tuscaloosa	86	24,667	31,845	33,019	43,941	10,874	16,390	19,679	25,859
Missouri U. of Science and Technology	87	33,241	37,912	36,447	43,470	16,249	17,811	16,411	21,797
U. Cincinnati	88	44,588	46,889	43,098	42,434	10,598	12,015	11,447	12,970
Texas Tech U.	89	40,249	44,057	42,856	41,962	10,888	14,017	14,399	15,359
Florida International U.	90	31,410	35,138	39,826	41,740	17,220	19,899	21,747	23,801
Colorado State U., Fort Collins	91	38,919	42,609	42,839	41,575	29,104	31,135	30,860	30,424
U. New Mexico	92	35,067	37,950	42,739	41,317	27,521	30,449	34,153	33,001
Mercer U.	93	23,532	32,624	37,450	40,439	17,021	25,358	29,625	31,923
West Virginia U.	94	37,520	42,516	40,786	39,855	18,904	19,835	15,930	18,042
U. Oklahoma, Norman and Health Science Center	95	23,293	26,569	36,643	39,785	12,084	13,783	15,069	15,235
SUNY, Binghamton U.	96	35,406	30,434	32,668	39,529	6,470	6,356	6,526	7,463
Louisiana State U., Baton Rouge	97	44,604	45,803	40,084	39,104	11,227	11,587	10,268	11,014
Case Western Reserve U.	98	46,184	41,228	37,911	39,079	33,187	29,335	27,954	30,483
U. Arkansas, Fayetteville	99	36,132	34,590	37,758	37,818	15,886	14,659	18,074	17,980
U. Massachusetts, Lowell	100	27,676	33,128	35,847	36,339	11,828	13,443	14,870	18,884
U. South Carolina, Columbia	101	31,294	31,748	42,804	36,223	15,596	16,076	15,010	17,042

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Yale U.	102	35,939	36,591	36,806	35,778	23,606	24,674	24,172	23,578
U. Illinois, Chicago	103	25,079	28,226	31,496	35,675	13,558	14,707	17,537	21,610
Oklahoma State U., Stillwater	104	37,003	32,947	33,983	35,094	11,982	11,962	11,969	15,319
U. California, Riverside	105	29,206	29,020	31,937	34,888	16,293	16,217	17,034	18,541
CUNY, City C.	106	28,252	28,337	23,140	34,710	17,753	16,998	15,704	18,078
Stevens Institute of Technology	107	22,396	25,832	33,103	33,983	16,994	18,945	23,906	26,766
Dartmouth C. and Dartmouth Hitchcock Medical Center	108	31,903	31,110	31,140	33,559	21,403	21,279	21,064	24,126
Drexel U.	109	31,625	31,330	31,230	32,665	21,222	20,443	19,772	20,821
Virginia Commonwealth U.	110	20,262	26,072	29,811	32,233	7,362	9,482	11,779	9,924
U. North Carolina, Chapel Hill	111	28,509	31,825	30,774	30,935	19,456	19,251	17,813	19,983
U. Louisiana, Lafayette	112	13,188	28,397	27,878	30,295	783	4,247	3,557	6,909
U. Chicago	113	16,388	23,773	24,468	30,018	12,919	17,275	20,168	25,909
New Mexico State U.	114	23,067	25,892	25,030	29,884	14,388	17,202	15,583	19,957
U.S. Air Force Academy	115	28,645	28,489	29,812	29,132	26,453	28,489	29,812	28,914
SUNY, Stony Brook U.	116	28,015	28,632	30,180	28,344	15,013	15,637	15,329	17,613
U. Nevada, Reno	117	19,373	23,568	23,939	27,769	7,474	8,785	9,664	11,419
Kansas State U.	118	26,577	27,439	28,155	27,743	9,819	12,503	12,530	13,810
Worcester Polytechnic Institute	119	20,617	21,029	23,758	27,108	10,668	11,735	13,084	16,095
Air Force Institute of Technology	120	22,908	20,525	23,947	26,780	16,075	14,015	15,238	17,065
U. Texas, El Paso	121	27,260	26,586	25,172	26,599	15,228	11,995	11,812	15,602
Washington U., Saint Louis	122	24,238	23,090	23,821	26,574	20,596	18,895	19,552	22,291
Lehigh U.	123	24,564	23,447	24,054	25,835	16,053	15,374	16,205	16,976
Old Dominion U.	124	17,074	19,294	25,869	25,811	7,601	8,179	11,802	9,683
Syracuse U.	125	22,145	25,412	24,272	24,698	9,100	7,616	7,696	8,013
U. Wyoming	126	36,672	19,550	20,317	24,675	4,369	6,075	4,640	7,391
Naval Postgraduate School	127	19,675	22,498	22,933	24,254	17,019	20,124	20,145	20,798
Tufts U.	128	27,130	31,630	26,662	24,017	22,470	26,143	20,397	19,362
U. Hawaii, Manoa	129	21,367	17,089	25,423	23,966	15,744	10,777	17,536	16,553
Brown U.	130	28,149	23,448	23,965	23,587	20,893	17,289	17,138	15,963
George Washington U.	131	17,136	21,712	22,682	22,749	10,987	14,597	15,091	15,052
U. New Hampshire	132	19,239	23,861	23,457	22,509	9,291	12,286	11,466	8,984
U. Texas, San Antonio	133	17,781	19,928	22,922	21,499	5,947	5,949	5,961	7,346
U. Kansas	134	17,481	20,869	19,830	21,363	10,149	14,177	13,829	12,206
U. Louisville	135	17,321	16,302	18,105	20,965	6,949	8,248	9,077	11,844

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Rochester Institute of Technology	136	18,611	20,264	20,910	20,874	8,298	8,136	7,965	10,659
U. Georgia	137	21,346	18,444	19,273	20,289	4,964	6,292	7,208	8,139
Brigham Young U., Provo	138	14,827	14,001	15,943	20,162	8,727	9,188	11,438	15,694
U. North Texas, Denton	139	13,114	15,773	15,205	18,285	7,918	5,962	3,805	7,232
U. Alaska, Fairbanks	140	14,027	14,922	17,843	17,314	7,642	9,090	11,998	11,355
Florida Atlantic U.	141	12,099	11,450	10,574	17,064	6,467	7,007	6,955	11,045
U. Rochester	142	13,418	14,872	16,116	16,780	9,658	11,814	12,764	14,213
Ohio U.	143	21,226	19,502	16,291	16,645	5,512	5,252	4,454	5,340
U. North Carolina, Charlotte	144	11,933	16,000	19,781	15,643	6,776	7,845	8,853	9,381
Boise State U.	145	11,907	11,688	13,956	14,918	6,297	6,377	8,245	9,596
North Dakota State U.	146	11,555	12,030	14,007	13,963	2,750	3,254	3,085	4,341
U. California, Merced	147	12,912	13,852	15,191	13,854	4,957	4,652	5,760	4,627
Illinois Institute of Technology	148	12,976	15,241	11,934	13,737	10,861	12,061	9,230	11,070
South Dakota School of Mines and Technology	149	13,111	11,226	12,677	13,658	8,581	7,570	8,887	9,834
Oregon Health and Science U.	150	11,941	12,134	12,856	13,526	8,694	10,649	9,549	10,841
Indiana U., Bloomington	151	7,928	11,265	14,373	13,012	3,649	4,864	6,314	5,752
New Mexico Institute of Mining and Technology	152	13,245	14,043	13,084	13,002	12,044	13,004	11,869	10,164
U. Idaho	153	17,190	17,497	17,035	12,944	7,521	8,525	8,376	6,705
Cleveland State U.	154	15,184	17,278	16,225	12,371	8,971	11,036	11,055	7,748
U. Vermont	155	7,712	7,864	11,209	11,914	5,683	5,190	4,853	5,537
Wayne State U.	156	17,235	14,634	12,806	11,675	6,264	6,640	5,947	5,695
North Carolina Agricultural and Technical State U.	157	13,123	11,766	10,393	11,616	10,933	9,713	8,664	9,071
Rowan U.	158	5,541	8,447	11,784	11,570	3,386	4,229	7,616	8,035
Emory U.	159	6,000	9,614	11,349	11,488	2,925	6,256	8,676	8,356
U. Puerto Rico, Mayaguez	160	13,704	16,446	16,903	11,397	7,275	8,892	9,428	8,136
Embry-Riddle Aeronautical U.	161	12,926	8,374	12,015	11,279	10,728	6,291	7,943	9,272
Louisiana Tech U.	162	10,333	11,513	11,459	11,257	3,948	4,263	4,582	4,117
U. Tulsa	163	14,054	13,213	13,182	10,926	1,647	1,520	1,387	2,410
U. Rhode Island	164	7,910	10,632	10,182	10,766	5,282	7,329	6,939	7,962
San Diego State U.	165	8,534	8,197	7,934	10,715	4,026	3,801	3,851	4,553
U. Nevada, Las Vegas	166	16,192	15,736	12,729	10,667	7,839	6,161	4,946	4,037
U. Toledo	167	10,410	11,256	10,023	10,299	5,781	6,062	5,921	7,574
Clarkson U.	168	12,058	10,889	9,363	10,113	5,553	5,883	4,584	4,577
Southern Methodist U.	169	6,835	9,207	9,798	9,972	3,220	5,145	5,103	3,590

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Howard U.	170	9,112	8,401	8,336	9,535	7,260	6,046	6,241	7,420
Villanova U.	171	9,293	9,612	10,193	9,484	1,535	1,543	1,375	2,122
U. Memphis	172	9,806	9,464	10,741	9,464	3,063	2,489	2,513	2,275
Texas State U.	173	3,504	4,611	6,892	9,321	1,066	623	746	1,537
U. Missouri, Kansas City	174	4,385	7,089	8,351	9,174	2,105	5,349	6,902	7,506
Marquette U.	175	7,898	8,988	10,059	9,027	2,424	3,033	4,291	3,866
U. Wisconsin-Milwaukee	176	10,024	9,915	9,683	8,577	2,373	2,537	2,940	3,193
Tennessee Technological U.	177	7,301	7,267	7,559	8,455	2,539	2,402	2,756	3,392
Temple U.	178	7,719	8,042	9,294	8,279	4,142	3,830	4,758	4,734
Wright State U.	179	43,039	39,164	29,519	8,129	28,136	25,868	23,496	6,695
U. Nebraska, central administration	180	2,800	1,687	8,340	8,060	2,800	1,687	8,340	7,510
Western Michigan U. and Homer Stryker M.D. School of Medicine	181	5,810	5,595	5,091	8,058	2,590	1,945	1,580	4,194
U. Massachusetts, Dartmouth	182	7,404	7,764	7,944	8,049	2,751	2,696	2,170	2,434
Morgan State U.	183	3,002	3,990	7,228	8,031	2,366	3,376	4,847	5,001
U.S. Military Academy	184	3,020	3,799	5,297	7,772	3,020	3,799	5,252	7,334
U. Akron	185	18,878	16,650	11,345	7,714	8,155	6,447	5,096	3,985
Medical C. Wisconsin	186	6,669	7,800	8,542	7,560	4,864	6,029	6,389	5,221
Baylor U.	187	4,494	3,720	4,515	7,241	1,189	1,440	1,271	1,598
South Dakota State U.	188	5,391	5,516	5,490	7,161	3,283	2,925	2,674	3,854
Missouri State U.	189	2,200	3,234	10,257	7,024	2,200	3,176	10,096	6,872
U.S. Naval Academy	190	7,823	7,482	7,376	6,719	7,667	7,311	7,202	6,604
Portland State U.	191	9,010	9,160	6,719	6,668	4,531	4,887	4,113	4,021
U. Maryland, Baltimore County	191	8,715	8,429	6,671	6,668	6,204	4,862	4,651	4,657
Tulane U.	193	7,435	8,416	6,881	6,662	3,965	4,170	4,050	4,016
Indiana U.-Purdue U., Indianapolis	194	6,034	6,730	7,177	6,604	3,054	3,298	4,354	4,040
Texas A&M U.-Corpus Christi	195	7,089	7,193	7,064	6,590	2,121	2,020	2,800	2,340
Northern Arizona U.	196	4,454	2,613	4,996	6,497	1,043	1,106	3,649	4,910
U. Michigan, Dearborn	197	6,503	6,832	7,088	6,223	844	1,129	1,681	1,907
U. Mississippi	198	5,462	8,821	13,661	6,033	3,137	4,752	12,422	4,487
California State U., Sacramento	199	7,196	7,507	7,744	5,986	3,282	3,443	3,150	2,687
U. Southern Mississippi	200	1,214	3,371	5,999	5,963	1,214	3,286	1,823	1,970
Florida Institute of Technology	201	5,427	4,782	5,362	5,891	2,306	2,391	3,305	2,903
Montana Technological U.	202	4,464	4,428	4,331	5,834	3,239	3,606	3,161	4,639
Humboldt State U.	203	4,118	5,232	4,261	5,564	4	16	153	208

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Tuskegee U.	204	5,297	5,372	5,922	5,528	5,197	4,097	4,177	4,213
California Polytechnic State U., San Luis Obispo	205	3,542	4,117	4,646	5,522	2,136	1,566	1,338	2,636
U. Texas Rio Grande Valley	206	4,226	3,573	4,018	5,354	2,798	1,134	1,761	2,885
Florida A&M U.	207	2,844	4,477	4,796	5,222	2,298	4,057	4,492	4,852
U. South Alabama	208	1,956	2,411	3,640	5,085	1,098	1,467	2,624	3,209
Prairie View A&M U.	209	3,835	5,121	5,222	4,687	2,641	3,183	3,184	2,885
Texas A&M U.-Kingsville	210	1,906	1,827	2,653	4,622	964	1,187	1,830	2,923
California State U., Long Beach	211	5,150	4,223	4,733	4,574	3,008	2,109	2,533	2,942
U. Miami	212	5,201	5,400	5,060	4,527	2,658	2,532	2,128	2,816
Oakland U.	213	3,709	3,836	1,041	4,437	1,076	720	233	953
Idaho State U.	214	4,725	4,039	5,014	4,411	1,815	1,203	2,491	2,022
Miami U.	215	2,271	3,070	3,783	4,356	281	361	667	532
Northern Illinois U.	216	1,072	1,418	1,467	4,134	334	222	246	1,856
Brandeis U.	217	0	0	1,048	4,055	0	0	0	409
Georgia Southern U.	218	1,110	1,257	1,929	4,052	196	174	301	804
Catholic U. of America	219	1,973	2,587	3,518	3,926	1,610	1,961	2,925	2,680
New School	220	1,797	2,828	3,205	3,793	0	99	116	422
Kent State U.	221	1,857	2,330	2,743	3,732	1,183	1,860	1,278	830
U. Colorado Denver <sup>e</sup>	222	na	na	na	3,695	na	na	na	3,152
San Jose State U.	223	1,451	1,864	2,863	3,664	699	1,029	1,575	700
U. Tennessee, Chattanooga	224	1,674	2,460	3,319	3,578	589	1,216	2,277	2,574
U. Denver	225	3,992	4,010	4,461	3,558	1,558	1,879	2,109	1,037
U. of St. Thomas (MN)	226	617	407	976	3,212	29	25	19	565
U. of the District of Columbia	227	721	708	1,388	3,134	721	708	1,388	3,134
SUNY, U. Albany	228	1,941	3,087	3,319	3,133	74	512	1,039	1,393
Milwaukee School of Engineering	229	2,936	3,825	3,105	3,129	631	695	613	704
Southern Illinois U., Carbondale	230	3,381	2,905	2,333	3,120	386	392	180	606
East Carolina U.	231	1,276	2,015	3,053	3,069	267	475	366	1,376
Tennessee State U.	232	1,467	1,207	2,922	3,062	1,203	824	2,584	2,732
CUNY, Advanced Science Research Center	233	1,564	1,379	2,289	2,928	1,274	1,289	1,968	1,845
Alfred U.	234	3,599	5,032	2,720	2,654	1,374	1,459	887	933
California State U., Maritime Academy	235	2,924	2,959	3,202	2,603	550	617	621	450
Marshall U.	236	1,011	1,158	1,137	2,475	271	502	434	1,671
Lamar U.	237	2,280	1,609	1,825	2,437	1,012	442	838	635



TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Pennsylvania State U., Behrend	238	1,112	1,508	1,232	2,395	277	408	337	610
U. Minnesota, Duluth	239	2,570	2,399	2,186	2,392	199	319	180	341
San Francisco State U.	240	1,492	1,284	2,251	2,386	486	371	981	990
Southern U. and A&M C., Baton Rouge	241	1,523	1,905	1,424	2,282	1,342	1,454	1,360	2,185
Pittsburg State U.	242	1,978	1,990	1,659	2,250	19	12	50	314
Jackson State U.	243	3,385	3,354	1,468	2,236	2,806	2,908	1,262	1,817
Purdue U., Northwest	244	2,307	1,352	2,521	2,220	675	376	1,128	1,032
U. North Florida	245	2,832	2,392	2,433	2,119	439	360	304	316
U. North Carolina, general administration	246	2,311	2,239	2,467	2,068	49	189	552	306
Saint Louis U.	247	1,346	2,344	2,621	1,999	486	1,176	1,549	1,183
U. New Orleans	248	2,447	2,376	2,282	1,897	392	344	250	204
Kennesaw State U.	249	549	617	1,478	1,858	111	105	74	289
Youngstown State U.	250	4,044	3,993	3,491	1,794	3,333	2,667	2,818	1,261
Southern Illinois U., Edwardsville	251	2,666	2,348	1,424	1,786	611	475	240	208
North Carolina Central U.	252	0	1,212	2,675	1,773	0	789	1,929	959
Alabama A&M U.	253	3,122	2,354	1,603	1,714	2,236	1,581	1,078	1,204
California State U., San Marcos	254	344	797	2,408	1,682	344	797	2,408	1,680
U. Alaska, Anchorage	255	2,196	1,393	1,101	1,674	226	562	644	869
Santa Clara U.	256	535	876	948	1,588	177	215	393	814
California State Polytechnic U., Pomona	257	1,248	1,085	1,875	1,516	751	728	1,141	1,040
Bucknell U.	258	1,733	1,632	1,690	1,494	561	533	554	543
California State U., Los Angeles	259	762	879	922	1,486	642	688	806	1,067
U. South Dakota	260	3,198	3,243	1,385	1,429	663	1,280	440	731
Norfolk State U.	261	1,501	1,940	1,312	1,413	1,501	1,940	1,312	1,081
West Texas A&M U.	262	1,058	1,178	1,277	1,400	534	477	500	673
California State U., San Bernardino	263	1,133	2,434	1,598	1,382	0	0	0	0
U. South Carolina, Aiken	264	1,490	1,520	1,331	1,322	1,490	1,453	1,331	1,322
California State U., Fresno	265	1,520	1,492	1,748	1,290	758	419	526	474
U. Oklahoma, Tulsa	266	1,432	1,549	1,816	1,289	667	919	1,066	421
Virginia State U.	267	951	793	1,058	1,273	240	165	210	321
U. Massachusetts, Boston	268	1,220	1,255	1,206	1,266	609	533	547	498
U. Texas Medical Branch	269	2,528	1,596	1,192	1,259	1,093	411	276	425
California State U., Chico	270	305	567	1,120	1,236	35	179	613	768
California State U., Northridge	271	757	714	1,115	1,216	700	604	926	1,069



TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Colorado Anschutz Medical Campus <sup>e</sup>	272	na	na	na	1,204	na	na	na	1,189
Wake Forest U.	272	49	385	859	1,204	49	148	208	544
U. Puerto Rico, Rio Piedras	274	326	37	341	1,152	117	37	270	1,152
CUNY, system office	275	2,245	1,001	1,132	1,137	1,419	912	662	731
Manhattan C.	276	ne	809	716	1,122	ne	167	170	68
SUNY, C. of Environmental Science and Forestry	277	1,245	1,339	912	1,085	249	259	158	396
U. North Carolina, Wilmington	278	1,659	1,226	640	1,064	531	484	335	297
U. Nebraska, Omaha	279	515	993	1,195	1,051	398	683	859	545
U. Ana G. Mendez, Gurabo	280	501	2,324	884	1,034	0	575	365	667
California State U., East Bay	281	ne	ne	132	1,024	ne	ne	41	0
Minnesota State U., Mankato	282	1,204	1,472	1,486	996	80	174	244	170
U. San Diego	283	898	776	1,252	980	756	633	686	692
U. Hartford	284	440	1,300	1,002	963	42	791	605	585
Franklin W. Olin C. of Engineering	285	789	534	491	936	425	111	255	636
U. Colorado Colorado Springs	286	763	694	1,367	902	656	649	877	488
California State U., Bakersfield	287	1,271	2,050	1,449	839	928	1,453	1,179	751
U. of the Virgin Islands	288	87	61	902	832	87	61	834	809
Florida Polytechnic U.	289	ne	1,739	689	829	ne	283	159	312
Hampton U.	290	1,296	1,049	866	827	1,296	1,049	866	827
U. Arkansas, Little Rock	291	1,921	2,116	1,627	809	1,060	1,224	950	708
U. Texas of the Permian Basin	292	50	ne	217	792	50	ne	82	270
Western Illinois U.	293	711	409	79	780	530	321	71	780
New York Institute of Technology	294	698	1,045	458	775	422	697	372	666
Oregon Institute of Technology	295	2,760 i	798 i	679 i	761 i	158	272 i	203	71 i
Morehead State U.	296	1,592	806	1,271	756	1,306	754	1,208	756
Union C., Schenectady	297	119	118	204	722	32	10	81	595
South Carolina State U.	298	239 i	662	687 i	712	208 i	662	687 i	712 i
U. West Florida	299	33	21	277	709	0	0	196	265
Pace U.	300	735	435	516	706	395	404	464	626
Smith C.	301	563	553	952	688	477	463	725	571
U. Tennessee, Health Science Center	302	598	610	648	687	0	0	0	0
California State U., Fullerton	303	563	609	616	661	352	288	534	530
Christopher Newport U.	304	536	575	566	656	536	575	566	656
Fort Lewis C.	305	ne	760	505	605	ne	702	477	563

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
Western Kentucky U.	306	783	597	689	604	93	2	68	82
Middle Tennessee State U.	307	540	59	182	592	100	3	76	100
Savannah State U.	308	429	526	639	588	429	526	639	588
Western Washington U.	309	1,489	832	989	587	535	336	475	230
Lawrence Technological U.	310	996	882	806	555	386	210	227	141
U. Texas, Tyler	311	405	394	344	537	127	71	47	115
Hofstra U.	312	717	521	299	528	717	506	288	478
Harvey Mudd C.	313	596	884	628	515	340	440	175	256
Purdue U., Fort Wayne	314	533	221	443	465	93	160	194	125
Eastern Michigan U.	315	156	304	402	427	0	9	102	81
Central Michigan U.	316	657	559	736	412	276	162	84	95
Johnson C. Smith U.	317	0	0	364	386	0	0	364	386
Pennsylvania State U., Harrisburg	317	223	312	74	386	132	15	44	219
Arkansas State U., Jonesboro	319	490	553	371	384	142	180	144	248
Alabama State U.	320	0	0	533	366	0	0	533	73
Keck Graduate Institute	321	293	326	336	356	190	208	215	238
Chapman U.	322	0	0	102	348	0	0	43	8
Wellesley C.	323	0	0	633	345	0	0	633	345
U. Wisconsin-Green Bay	324	242	353	338	327	95	147	159	167
U. New Haven	325	906	1,013	533	319	557	485	238	81
U. Washington, Tacoma	325	0	0	59	319	0	0	59	314
Delaware State U.	327	1,807	2,248	316	308	1,500	1,218	172	198
Western Carolina U.	328	136	365	371	305	122	269	291	237
U. Washington, Bothell	329	86	161	0	304	0	146	0	304
Kettering U.	330	1,516	1,354	1,046	295	454	184	114	3
Fayetteville State U.	331	0	0	0	288	0	0	0	288
C. New Jersey	332	155	ne	105	283	114	ne	8	133
Saginaw Valley State U.	333	242	239	277	280	136	124	105	110
Hope C.	334	55	128	175	277	52	116	138	232
CUNY, C. Staten Island	335	1	1	294	274	0	0	249	235
Citadel Military C. South Carolina	336	ne	ne	34	250	ne	ne	13	136
Texas A&M International U.	337	91	30	71	241	0	3	28	65
U. Wisconsin-Stevens Point	337	46	52	60	241	34	40	47	132
Loyola Marymount U.	339	553	160	165	234	4	0	0	0

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. of the Pacific	340	165	68	89	228	163	68	89	228
U. Michigan, Flint	341	140	152	376	225	8	0	0	0
Central State U.	342	100	340	166	211	100	340	166	211
Liberty U.	343	ne	311	838	208	ne	0	442	75
U. Wisconsin-Superior	344	0	4	9	207	0	4	9	32
Lipscomb U.	345	ne	ne	188	203	ne	ne	188	203
Lafayette C.	346	183	184	251	201	112	107	139	84
U. Houston-Downtown	347	7	42	36	189	0	0	28	189
U. of the Incarnate Word	348	0	47	72	186	0	0	0	139
Alcorn State U.	349	496	343	133	181	496	330	126	178
James Madison U.	350	105	313	305	174	56	181	186	54
Swarthmore C.	350	377	314	367	174	141	55	0	50
U. Wisconsin-Platteville	352	ne	145	145	171	ne	68	67	80
Biola U.	353	153	162	167	167	103	109	113	117
Tarleton State U.	354	0	61	156	166	0	0	0	0
U. Southern Maine	355	3	23	27	159	0	0	0	32
U. Wisconsin-Oshkosh	356	141	146	152	158	75	74	74	73
Florida Gulf Coast U.	357	270	59	250	145	270	56	47	0
U. Maryland, Eastern Shore	358	43	40	128	144	0	0	125	125
East Tennessee State U.	359	0	2	65	138	0	2	52	101
Grand Valley State U.	360	40	400	236	118	0	0	0	0
Keene State C.	361	ne	8	8	114	ne	8	8	114
U. Detroit Mercy	361	103	227	119	114	4	59	75	64
Fairfield U.	363	375	60	117	109	22	0	0	2
Montclair State U.	364	0	0	14	104	0	0	0	5
CUNY, New York City C. of Technology	365	601	478	367	103	579	442	353	93
Duquesne U.	366	588	525	374	102	208	179	146	0
Oklahoma State U., Center for Health Sciences	367	0	309	258	101	0	54	46	32
Central Connecticut State U.	368	ne	119	120	100	ne	87	94	71
Calvin U.	369	159	111	104	97	47	21	20	21
California State U., Channel Islands	370	0	0	0	79	0	0	0	79
CUNY, Brooklyn C.	371	0	116	118	77	0	0	0	0
C. Charleston	372	0	0	67	72	0	0	67	72
Central Washington U.	372	13	70	61	72	0	4	34	45

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Maryland Center for Environmental Science	372	160	90	122	72	63	89	42	0
Coastal Carolina U.	375	0	0	0	68	0	0	0	68
Suffolk U.	376	ne	ne	76	66	ne	ne	76	66
Clafin U.	377	56	145	170	65	42	144	170	65
Colorado State U., Pueblo	378	ne	178	210	64	ne	51	47	51
Texas A&M U.-Commerce	378	5	28	48	64	0	0	0	0
Seattle U.	380	336	283	140	62	185	72	10	10
Eastern Kentucky U.	381	0	0	58	58	0	0	52	56
Bowling Green State U.	382	10	60	121	57	0	0	0	35
Xavier U. Louisiana	382	241	376	65	57	241	376	65	57
Thomas Jefferson U.	384	0	0	143	55	0	0	59	55
Andrews U.	385	ne	47	41	50	ne	41	37	50
Boston C.	385	0	0	0	50	0	0	0	0
Trinity U.	387	108	103	80	47	0	0	0	0
Abilene Christian U.	388	ne	ne	ne	45	ne	ne	ne	45
Dordt U.	388	ne	ne	ne	45	ne	ne	ne	29
Trinity C., Hartford	388	86	86	49	45	19	19	13	1
SUNY, Oswego	391	300	231	125	43	50	81	13	9
Clark Atlanta U.	392	347	214	158	36	347	44	0	11
Sam Houston State U.	392	29	21	20	36	0	0	0	0
Texas Christian U.	392	175	73	46	36	121	0	8	8
Roger Williams U.	395	94	36	30	32	0	0	0	17
St. Cloud State U.	396	183	121	71	31	0	0	0	0
Elon U.	397	83	87	45	29	64	68	25	13
Texas Southern U.	398	98	130	104	27	98	130	76	27
U. Wisconsin-River Falls	399	46	ne	103	18	5	ne	65	18
Providence C.	400	23	41	0	17	23	40	0	17
Southeastern Louisiana U.	401	0	0	4	16	0	0	3	8
Albany State U.	402	3	16	3	14	3	16	3	14
Hawaii Pacific U.	403	0	10	13	13	0	10	13	13
CUNY, York C.	404	ne	91	0	12	ne	89	0	1
CUNY, Graduate Center	405	0	0	30	6	0	0	30	0
Jacksonville State U.	405	8	22	11	6	8	22	11	6
Azusa Pacific U.	407	38	50	31	5	0	0	0	0

TABLE 55

**Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2021 total: FYs 2018–21**

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2018	2019	2020	2021	2018	2019	2020	2021
U. Alaska, Southeast	408	38	0	30	4	38	0	30	0
Salisbury U.	409	1	0	0	3	0	0	0	0
U. San Francisco	409	0	0	6	3	0	0	0	0
Indiana State U.	411	2	1	4	2	0	0	0	0
SUNY, C. Brockport	411	0	0	0	2	0	0	0	0
Doane U.	413	0	0	1 i	1 i	0	0	1 i	1 i
Sonoma State U.	413	ne	ne	1	1	ne	ne	0	0
U. Central Oklahoma	413	0	0	1 i	1 i	0	0	1 i	1 i
All other surveyed institutions	-	154,434	14,394	7,765	0	82,996	9,492	5,929	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.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$1,125,772 thousand imputed for total and \$1,088,522 thousand reported for federally financed R&D expenditures in engineering in FY 2021. 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.

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

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

<sup>d</sup> 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.

<sup>e</sup> 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 2021 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

**Source(s):**

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