

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
All institutions	-	7,093,806	7,668,349	8,120,891	957,795	906,145	521,758	606,519	2,143,397	384,795	1,160,117	504,528	935,837
Johns Hopkins U. ^a	1	1,038,797	1,100,587	1,154,993	128,732	52,763	20,352	14,290	529,392	96,457	215,263	25,841	71,903
Georgia Institute of Technology	2	466,780	506,061	537,693	159,822	10,650	10,523	17,000	212,559	81,802	32,241	7,513	5,583
Pennsylvania State U., University Park and Hershey Medical Center	3	244,868	258,324	277,345	21,484	13,881	10,966	4,153	85,604	19,417	90,163	31,677	0
Massachusetts Institute of Technology	4	220,744	230,312	213,108	17,450	65,830	16,817	3,261	40,823	0	19,657	12,455	36,815
Utah State U.	5	124,950	183,794	206,998	198,031	416	0	2,525	2,804	0	2,149	0	1,073
U. Michigan, Ann Arbor	6	178,020	175,137	176,141	8,809	16,389	7,596	7,860	53,065	2,318	25,667	7,581	46,856
U. Texas, Austin	7	154,761	160,506	175,426	10,941	7,564	12,239	8,918	55,808	133	45,359	16,186	18,278
U. Dayton	8	127,079	146,841	145,508	13,203	0	9,546	427	7,789	26,708	6,591	65,536	15,708
U. Illinois, Urbana-Champaign	9	126,826	130,075	131,529	7,886	9,054	10,598	12,918	41,989	0	21,613	10,169	17,302
Purdue U., West Lafayette	10	105,657	111,292	122,469	15,923	7,096	9,187	6,314	25,830	4,266	20,401	10,377	23,075
U. Washington, Seattle	11	103,714	108,560	114,031	5,940	20,361	7,559	13,633	30,587	1,485	8,763	4,096	21,607
Virginia Polytechnic Institute and State U.	12	98,261	104,138	107,677	10,276	8,491	2,159	7,758	31,242	9,570	12,397	11,024	14,760
U. Colorado Boulder	13	86,829	92,099	105,890	58,211	8,401	8,370	9,616	8,637	0	9,132	1,190	2,333
U. California, San Diego	14	73,246	88,846	97,602	0	32,618	0	0	38,926	0	9,671	0	16,387

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

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Institution	Rank	2018	2019	2020										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
Texas A&M U., College Station and Health Science Center	15	70,000	77,456	95,138	18,857	13,353	6,872	17,598	11,447	2,582	5,581	6,971	11,877	
North Carolina State U.	16	84,304	91,264	94,592	1,234	6,192	11,831	6,411	30,600	2,516	7,871	11,681	16,256	
U. Maryland ^b	17	na	86,168	86,398	8,344	13,043	3,492	10,536	18,660	0	9,164	8,356	14,803	
Ohio State U.	18	84,724	85,547	85,038	333	3,341	7,098	2,205	16,985	3,093	30,078	13,404	8,501	
Stanford U.	19	91,628	79,988	81,391	9,498	15,533	7,394	9,252	13,640	0	16,068	6,075	3,931	
Arizona State U.	20	61,096	72,655	80,121	0	8,556	3,604	13,043	32,269	1,703	8,778	3,269	8,899	
U. California, Berkeley	21	75,316	81,194	79,645	0	0	3,454	5,226	62,961	0	0	0	8,004	
Woods Hole Oceanographic Institution	22	52,285	72,016	75,442	0	0	0	0	0	0	0	0	75,442	
U. Minnesota, Twin Cities	23	67,776	71,695	74,167	9,867	17,405	13,212	5,289	12,855	1,239	9,549	4,751	0	
Duke U.	24	64,601	72,560	73,605	0	32,718	0	3,510	27,931	0	6,340	2,280	826	
U. Wisconsin-Madison	25	63,684	68,617	73,412	0	8,774	6,511	5,343	10,486	1,913	7,493	6,229	26,663	
Cornell U.	26	55,763	63,696	69,870	1,135	12,540	7,361	5,564	12,324	2,596	13,630	11,698	3,022	
Northeastern U.	27	48,634	61,116	66,614	0	4,942	3,026	9,758	27,520	6,951	11,659	0	2,758	
U. Tennessee, Knoxville ^c	28	62,428	67,165	66,562	13,012	1,377	3,519	5,615	12,051	11,693	0	7,279	12,016	
U. Florida	29	49,486	60,844	62,573	6,482	11,333	2,767	594	18,346	630	4,813	7,267	10,341	
Iowa State U.	30	43,677	43,241	62,369	3,251	7,415	3,134	10,440	7,787	0	9,437	2,398	18,507	
Columbia U. in the City of New York	31	61,834	59,672	62,020	2,088	17,183	5,265	1,996	4,078	612	3,843	0	26,955	
SUNY, U. Buffalo	32	53,279	50,811	61,140	15,962	2,890	7,017	4,558	3,188	6,648	16,582	1,948	2,347	
Carnegie Mellon U.	33	53,672	49,854	56,175	1,448	7,990	5,984	3,025	14,381	0	13,026	6,626	3,695	

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

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Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Southern California	34	46,803	52,737	55,089	751	6,697	2,177	3,543	32,295	1,989	5,086	0	2,551
New Jersey Institute of Technology	35	41,611	53,994	53,702	0	3,837	3,915	13,097	1,907	0	402	0	30,544
U. Delaware	36	37,656	47,975	53,448	0	4,252	29,357	6,272	8,203	0	5,236	0	128
Boston U.	37	42,903	45,017	53,265	1,691	25,094	0	0	14,072	1,008	5,990	0	5,410
Harvard U.	38	51,742	45,835	52,801	0	29,314	44	952	6,657	0	815	15,019	0
Vanderbilt U. and Vanderbilt U. Medical Center	39	47,036	52,742	52,373	0	8,998	6,498	9,167	19,864	0	5,992	0	1,854
Northwestern U.	40	48,724	47,948	49,383	0	10,277	9,532	2,092	5,580	2,570	4,886	11,003	3,443
U. California, Los Angeles	41	50,048	52,488	49,163	0	4,368	3,772	3,390	19,380	0	8,742	4,427	5,084
Wichita State U.	42	13,677	22,954	46,023	45,025	31	0	0	339	295	241	0	92
George Mason U.	43	13,550	31,276	45,977	0	2,934	0	3,648	19,632	18,313	972	232	246
Mississippi State U.	44	24,187	33,935	45,520	8,970	560	4,827	3,588	3,028	2,984	13,764	111	7,688
U. Pennsylvania	45	36,750	39,422	44,542	0	12,695	6,114	0	11,461	0	14,260	0	12
U. Alabama, Birmingham	46	38,086	37,724	44,243	7,540	5,269	2,188	380	5,935	0	6,989	15,650	292
U. California, Santa Barbara	47	35,964	33,589	43,340	0	12,650	5,044	0	17,037	0	5,111	3,059	439
U. Alabama, Huntsville	48	24,961	31,957	42,499	28,528	0	499	3,141	3,001	2,730	3,504	409	687
Rice U.	49	34,520	37,781	42,085	0	13,414	3,119	5,642	14,462	0	1,503	3,859	86
U. Notre Dame	50	36,062	40,258	41,771	12,906	0	5,279	9,387	14,157	0	0	41	1
U. Virginia, Charlottesville	51	38,600	43,878	41,454	0	10,252	2,433	1,469	13,313	0	6,129	7,070	788
Princeton U.	52	42,147	41,480	40,829	1,417	3,115	2,437	2,623	9,512	1,999	5,079	10,877	3,770

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
Rutgers, State U. New Jersey, New Brunswick	53	35,299	35,917	40,629	0	2,930	3,342	715	5,172	156	5,458	2,378	20,478	
Clemson U.	54	33,781	39,395	38,214	0	8,152	3,815	6,673	4,515	1,403	4,131	7,154	2,371	
Florida State U.	55	39,060	39,126	38,126	923	3,762	2,646	2,687	10,148	1,255	15,121	1,564	20	
U. California, Davis	56	35,375	37,549	37,203	0	13,931	1,688	7,488	8,241	0	2,370	0	3,485	
U. Pittsburgh, Pittsburgh	57	27,599	31,347	36,623	0	10,560	8,613	2,683	5,752	1,640	7,371	0	4	
Oregon State U.	58	34,437	36,090	35,946	0	1,454	1,552	7,278	10,626	2,388	5,566	367	6,715	
U. Central Florida	59	33,002	33,413	35,514	12,029	0	0	2,212	5,706	2,989	5,398	2,164	5,016	
U. Utah	60	25,847	32,365	34,915	0	7,144	5,475	1,989	8,541	0	8,281	2,359	1,126	
U. Arizona	61	30,716	35,880	34,459	950	3,635	3,190	1,295	17,115	2,075	2,441	2,041	1,717	
U. New Mexico	62	27,521	30,449	34,153	6,579	510	4,163	5,151	8,036	276	1,112	900	7,426	
Colorado School of Mines	63	23,277	31,066	33,432	354	1,415	4,583	5,714	261	0	5,818	10,842	4,445	
Michigan State U.	64	27,900	29,787	31,431	0	3,290	5,224	3,325	10,662	0	5,754	0	3,176	
Colorado State U., Fort Collins	65	29,104	31,135	30,860	0	811	2,075	10,901	7,702	99	8,697	0	575	
U. Connecticut	66	22,920	26,390	30,450	0	2,706	2,670	9,176	6,043	0	3,651	5,712	492	
U.S. Air Force Academy	67	26,453	28,489	29,812	4,358	0	0	0	325	0	25,073	0	56	
Mercer U.	68	17,021	25,358	29,625	9,756	0	0	0	61	0	12,299	7,509	0	
Rensselaer Polytechnic Institute	69	28,136	28,307	28,960	0	3,024	3,642	1,731	5,502	325	11,946	2,445	345	
Auburn U., Auburn	70	21,497	25,694	28,796	1,623	151	2,102	3,281	2,615	1,682	9,742	197	7,403	
Montana State U., Bozeman	71	18,950	25,349	28,753	0	2,195	743	4,691	2,347	0	3,437	0	15,340	

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U. Massachusetts, Amherst	72	27,568	26,896	28,635	0	459	11,993	6,424	4,796	0	4,229	0	734
Case Western Reserve U.	73	33,187	29,335	27,954	0	12,718	4,951	641	3,502	0	6,092	0	50
U. California, Irvine	74	26,914	24,021	27,421	0	7,439	3,856	2,560	6,138	0	5,465	1,665	298
U. Kentucky	75	25,067	28,999	26,818	922	996	2,520	5,203	1,605	26	1,829	2,670	11,047
SUNY, Polytechnic Institute	76	39,897	36,816	26,696	0	0	0	0	0	0	33	0	26,663
California Institute of Technology	77	22,700	24,690	26,324	5,797	199	6,089	8,299	2,058	0	307	12	3,563
U. Houston	78	21,593	23,838	24,929	1,561	7,316	4,557	3,387	3,991	106	2,769	451	791
Yale U.	79	23,606	24,674	24,172	0	7,933	2,829	0	7,844	0	5,563	0	3
Stevens Institute of Technology	80	16,994	18,945	23,906	47	1,217	1,151	306	2,164	0	1,636	40	17,345
Wright State U.	81	28,136	25,868	23,496	0	14,119	0	0	6,365	1,517	547	0	948
Michigan Technological U.	82	19,638	21,801	23,332	0	1,372	747	1,358	6,387	0	11,994	1,387	87
U. California, Santa Cruz	83	18,845	25,568	22,817	0	27	0	0	3,139	0	0	0	19,651
U. Texas, Arlington	84	20,698	22,053	22,163	1,540	2,277	0	1,726	3,494	9,431	1,547	0	2,148
Florida International U.	85	17,220	19,899	21,747	0	3,563	0	7,921	6,664	0	2,154	674	771
U. Texas, Dallas	86	15,884	19,512	21,594	0	9,573	0	0	3,580	1,124	4,701	970	1,646
U. Nebraska, Lincoln	87	18,358	20,375	21,149	0	3,278	863	7,184	4,719	0	2,495	2,582	28

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

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Institution	Rank	2018	2019	2020									
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Dartmouth C. and Dartmouth Hitchcock Medical Center	88	21,403	21,279	21,064	0	8,937	3,334	655	2,714	0	5,424	0	0
U. Iowa	89	22,494	21,473	20,687	0	55	251	9,274	2,262	379	1,097	0	7,369
Tufts U.	90	22,470	26,143	20,397	294	10,821	2,535	1,904	2,568	0	2,151	0	124
Washington State U.	91	19,156	18,943	20,360	0	989	2,614	3,522	4,578	51	4,096	2,472	2,038
U. North Dakota	92	30,506	28,684	20,330	0	0	318	16,300	205	0	64	143	3,300
U. Chicago	93	12,919	17,275	20,168	0	0	0	0	0	0	0	0	20,168
Naval Postgraduate School	94	17,019	20,124	20,145	6,453	401	0	178	3,219	141	1,938	333	7,482
Drexel U.	95	21,222	20,443	19,772	0	3,671	4,755	1,511	3,546	0	1,874	3,589	826
U. Alabama, Tuscaloosa	96	10,874	16,390	19,679	1,037	0	1,484	2,836	8,027	0	3,740	2,555	0
Washington U., Saint Louis	97	20,596	18,895	19,552	0	7,207	4,579	457	4,355	0	0	2,243	711
U. Arkansas, Fayetteville	98	15,886	14,659	18,074	0	2,628	2,283	1,542	8,031	1,779	1,566	0	245
U. South Florida, Tampa	99	24,747	22,743	18,073	36	2,670	1,573	8,442	2,607	250	2,468	0	27
U. Maine	100	10,014	13,614	18,038	0	0	2,969	137	366	0	677	13,790	99
U. North Carolina, Chapel Hill	101	19,456	19,251	17,813	0	6,408	0	10,235	0	1,170	0	0	0
U. Illinois, Chicago	102	13,558	14,707	17,537	0	6,476	988	2,325	2,557	0	5,191	0	0
U. Hawaii, Manoa	103	15,744	10,777	17,536	0	404	0	4,507	8,688	0	1,728	0	2,209
Brown U.	104	20,893	17,289	17,138	0	5,648	2,497	0	2,206	0	2,284	2,356	2,147
U. California, Riverside	105	16,293	16,217	17,034	0	1,578	4,171	3,094	4,679	0	2,888	624	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

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U. Missouri, Columbia	106	12,483	14,331	16,905	546	1,601	674	4,858	5,548	566	2,358	80	674	
Missouri U. of Science and Technology	107	16,249	17,811	16,411	928	0	440	3,080	3,277	427	3,038	4,485	736	
Lehigh U.	108	16,053	15,374	16,205	0	534	2,617	2,745	2,830	1,351	3,767	2,361	0	
West Virginia U.	109	18,904	19,835	15,930	9	0	2,504	1,729	2,389	1,211	5,758	323	2,007	
CUNY, City C.	110	17,753	16,998	15,704	0	4,317	1,221	5,415	2,126	0	2,552	0	73	
New Mexico State U.	111	14,388	17,202	15,583	4,519	0	1,187	2,152	2,467	137	1,117	0	4,004	
New York U.	112	13,790	14,986	15,445	0	0	1,451	694	6,980	0	2,324	0	3,996	
SUNY, Stony Brook U.	113	15,013	15,637	15,329	0	3,643	0	447	3,567	0	2,281	4,955	436	
Air Force Institute of Technology	114	16,075	14,015	15,238	3,389	0	0	124	3,477	7,685	0	563	0	
George Washington U.	115	10,987	14,597	15,091	2,278	4,390	0	1,867	5,043	925	258	0	330	
U. Oklahoma, Norman and Health Science Center	116	12,084	13,783	15,069	2,416	315	870	2,703	6,929	678	0	0	1,158	
U. South Carolina, Columbia	117	15,596	16,076	15,010	0	0	2,871	2,073	4,170	0	5,896	0	0	
U. Massachusetts, Lowell	118	11,828	13,443	14,870	0	2,020	4,553	792	2,838	0	3,318	0	1,349	
Texas Tech U.	119	10,888	14,017	14,399	0	0	3,858	3,055	5,710	283	1,283	0	210	
U. Kansas	120	10,149	14,177	13,829	831	4,919	749	1,307	4,101	0	660	0	1,262	
Worcester Polytechnic Institute	121	10,668	11,735	13,084	0	2,400	1,422	233	1,145	0	7,347	0	537	
U. Rochester	122	9,658	11,814	12,764	0	5,420	600	0	3,609	0	3,135	0	0	

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

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Kansas State U.	123	9,819	12,503	12,530	398	0	1,950	694	2,172	370	5,190	0	1,756
U. Mississippi	124	3,137	4,752	12,422	803	0	477	545	1,479	759	778	0	7,581
U. Alaska, Fairbanks	125	7,642	9,090	11,998	503	0	0	2,938	6,407	0	25	159	1,966
Oklahoma State U., Stillwater	126	11,982	11,962	11,969	3,955	0	1,879	2,370	1,104	346	20	860	1,435
New Mexico Institute of Mining and Technology	127	12,044	13,004	11,869	573	0	3,717	484	282	0	1,298	324	5,191
U. Texas, El Paso	128	15,228	11,995	11,812	0	575	0	1,792	2,090	940	5,549	208	658
Old Dominion U.	129	7,601	8,179	11,802	1,519	0	0	650	3,414	4,920	1,299	0	0
Virginia Commonwealth U.	130	7,362	9,482	11,779	0	3,399	3,721	0	1,479	0	3,180	0	0
U. New Hampshire	131	9,291	12,286	11,466	0	0	1,103	6,675	624	0	3,064	0	0
U. Cincinnati	132	10,598	12,015	11,447	1,793	450	667	2,451	3,635	0	1,583	0	868
Brigham Young U., Provo	133	8,727	9,188	11,438	0	0	1,646	890	4,256	508	4,138	0	0
Cleveland State U.	134	8,971	11,036	11,055	0	9,157	699	144	235	0	820	0	0
Louisiana State U., Baton Rouge	135	11,227	11,587	10,268	0	0	1,402	1,885	1,045	189	1,810	0	3,937
Missouri State U.	136	2,200	3,176	10,096	0	0	0	0	0	0	0	10,096	0
U. Nevada, Reno	137	7,474	8,785	9,664	42	1,780	745	4,453	194	0	921	1,272	257
Oregon Health and Science U.	138	8,694	10,649	9,549	0	9,549	0	0	0	0	0	0	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Puerto Rico, Mayaguez	139	7,275	8,892	9,428	0	0	3,706	1,582	1,335	0	145	1,286	1,374
Illinois Institute of Technology	140	10,861	12,061	9,230	1,053	3,727	227	471	1,919	364	902	85	482
U. Louisville	141	6,949	8,248	9,077	2	1,585	623	422	2,882	1,128	565	0	1,870
South Dakota School of Mines and Technology	142	8,581	7,570	8,887	0	0	3,317	926	499	0	454	2,016	1,675
U. North Carolina, Charlotte	143	6,776	7,845	8,853	0	0	0	1,849	1,804	0	2,957	0	2,243
Emory U.	144	2,925	6,256	8,676	0	8,676	0	0	0	0	0	0	0
North Carolina Agricultural and Technical State U.	145	10,933	9,713	8,664	0	601	0	1,255	1,643	978	2,681	0	1,506
U. Idaho	146	7,521	8,525	8,376	819	464	513	2,016	725	0	316	515	3,008
U. Nebraska, central administration	147	2,800	1,687	8,340	0	3,748	0	176	138	339	556	292	3,091
Boise State U.	148	6,297	6,377	8,245	78	2,587	90	362	1,967	47	44	2,418	652
Rochester Institute of Technology	149	8,298	8,136	7,965	0	931	467	0	2,487	123	884	0	3,073
Embry-Riddle Aeronautical U.	150	10,728	6,291	7,943	7,413	0	0	33	0	0	402	0	95
Syracuse U.	151	9,100	7,616	7,696	381	2,029	0	521	3,273	0	1,492	0	0
Rowan U.	152	3,386	4,229	7,616	0	940	2,496	3,202	866	0	112	0	0
U. Georgia	153	4,964	6,292	7,208	0	430	1,865	2,693	2,220	0	0	0	0
U.S. Naval Academy	154	7,667	7,311	7,202	497	0	0	0	1,315	0	2,097	0	3,293
Florida Atlantic U.	155	6,467	7,007	6,955	90	0	7	2,068	67	0	0	0	4,723

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Rhode Island	156	5,282	7,329	6,939	0	295	651	569	991	0	1,447	0	2,986
U. Missouri, Kansas City	157	2,105	5,349	6,902	0	0	0	161	6,512	0	229	0	0
SUNY, Binghamton U.	158	6,470	6,356	6,526	0	1,308	0	0	1,483	2,431	1,304	0	0
Medical C. Wisconsin	159	4,864	6,029	6,389	0	6,389	0	0	0	0	0	0	0
Indiana U., Bloomington	160	3,649	4,864	6,314	0	0	0	0	0	6,314	0	0	0
Howard U.	161	7,260	6,046	6,241	0	0	217	978	3,134	0	1,179	0	733
U. Texas, San Antonio	162	5,947	5,949	5,961	0	1,037	0	1,160	746	265	821	0	1,932
Wayne State U.	163	6,264	6,640	5,947	0	1,276	2,574	887	350	243	345	0	272
U. Toledo	164	5,781	6,062	5,921	0	129	1,168	228	439	0	2,765	0	1,192
U. California, Merced	165	4,957	4,652	5,760	0	555	0	2,269	407	0	1,669	0	860
U.S. Military Academy	166	3,020	3,799	5,252	17	0	106	211	528	1,453	2,215	0	722
Southern Methodist U.	167	3,220	5,145	5,103	0	0	0	583	3,703	0	817	0	0
U. Akron	168	8,155	6,447	5,096	0	760	2,170	447	280	0	1,439	0	0
U. Nevada, Las Vegas	169	7,839	6,161	4,946	0	0	0	1,918	527	0	2,395	0	106
U. Colorado Denver and Anschutz Medical Campus	170	2,414	4,046	4,944	0	1,997	0	587	1,261	0	904	0	195
U. Vermont	171	5,683	5,190	4,853	1,278	0	0	1,203	1,440	0	932	0	0
Morgan State U.	172	2,366	3,376	4,847	0	0	0	1,777	1,497	0	0	0	1,573
Temple U.	173	4,142	3,830	4,758	0	1,614	0	925	895	0	1,195	0	129

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
U. Maryland, Baltimore County	174	6,204	4,862	4,651	299	1,707	518	132	899	0	350	85	661	
U. Wyoming	175	4,369	6,075	4,640	0	0	843	1,972	448	0	1,356	0	21	
Clarkson U.	176	5,553	5,883	4,584	0	0	669	1,587	1,243	0	1,053	0	32	
Louisiana Tech U.	177	3,948	4,263	4,582	0	1,568	361	162	195	0	674	244	1,378	
Florida A&M U.	178	2,298	4,057	4,492	0	0	1,420	1,545	159	360	355	0	653	
Ohio U.	179	5,512	5,252	4,454	1,868	0	1,330	364	44	0	108	143	597	
Indiana U.-Purdue U., Indianapolis	180	3,054	3,298	4,369	0	1,592	0	0	551	0	2,187	0	39	
Marquette U.	181	2,424	3,033	4,291	0	2,574	0	101	991	0	625	0	0	
Tuskegee U.	182	5,197	4,097	4,177	44	6	0	0	487	0	401	3,239	0	
Portland State U.	183	4,531	4,887	4,113	213	0	0	1,726	1,296	0	533	208	137	
Tulane U.	184	3,965	4,170	4,050	0	2,890	1,160	0	0	0	0	0	0	
San Diego State U.	185	4,026	3,801	3,851	414	275	0	1,251	512	0	1,399	0	0	
U. North Texas, Denton	186	7,918	5,962	3,805	0	61	0	0	520	0	256	2,860	108	
Northern Arizona U.	187	1,043	1,106	3,649	0	992	23	68	2,037	0	304	0	225	
U. Louisiana, Lafayette	188	783	4,247	3,557	0	0	1,623	813	62	0	66	102	891	
Florida Institute of Technology	189	2,306	2,391	3,305	709	207	144	176	60	0	784	0	1,225	
Prairie View A&M U.	190	2,641	3,183	3,184	0	0	67	99	1,695	0	392	48	883	
Montana Technological U.	191	3,239	3,606	3,161	0	0	0	147	188	0	72	2,754	0	
California State U., Sacramento	192	3,282	3,443	3,150	0	0	0	3,150	0	0	0	0	0	

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
North Dakota State U.	193	2,750	3,254	3,085	0	0	0	851	411	16	762	0	1,045
U. Wisconsin-Milwaukee	194	2,373	2,537	2,940	0	0	0	473	1,139	62	1,264	0	2
Catholic U. of America	195	1,610	1,961	2,925	0	981	0	147	876	0	921	0	0
Youngstown State U.	196	3,333	2,667	2,818	0	0	101	78	243	139	2,257	0	0
Texas A&M U.-Corpus Christi	197	2,121	2,020	2,800	1,450	0	0	188	96	0	77	0	989
Tennessee Technological U.	198	2,539	2,402	2,756	0	0	85	319	1,214	244	877	0	17
South Dakota State U.	199	3,283	2,925	2,674	0	0	0	517	588	0	203	0	1,366
U. South Alabama	200	1,098	1,467	2,624	0	0	1,448	591	243	0	283	0	59
California State U., Long Beach	201	3,008	2,109	2,533	41	675	196	713	68	0	727	0	113
U. Memphis	202	3,063	2,489	2,513	0	817	0	1,323	137	0	130	28	78
Idaho State U.	203	1,815	1,203	2,491	0	0	0	9	0	0	44	0	2,438
California State U., San Marcos	204	344	797	2,408	0	0	0	0	0	0	0	0	2,408
U. Tennessee, Chattanooga	205	589	1,216	2,277	0	0	0	436	393	0	0	0	1,448
U. Massachusetts, Dartmouth	206	2,751	2,696	2,170	0	147	0	806	782	0	435	0	0
U. Miami	207	2,658	2,532	2,128	0	750	0	386	108	0	327	0	557
U. Denver	208	1,558	1,879	2,109	0	547	0	242	901	0	0	419	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
CUNY, Advanced Science Research Center	209	1,274	1,289	1,968	0	332	159	859	0	0	0	0	618
North Carolina Central U.	210	0	789	1,929	0	1,929	0	0	0	0	0	0	0
Texas A&M U.-Kingsville	211	964	1,187	1,830	0	0	0	2	422	0	812	0	594
U. Southern Mississippi	212	1,214	3,286	1,823	0	0	0	0	0	0	0	0	1,823
U. Texas Rio Grande Valley	213	2,798	1,134	1,761	0	165	0	84	0	372	212	0	928
U. Michigan, Dearborn	214	844	1,129	1,681	0	0	0	0	862	33	782	0	4
Western Michigan U. and Homer Stryker M.D. School of Medicine	215	2,590	1,945	1,580	404	78	46	525	393	31	103	0	0
San Jose State U.	216	699	1,029	1,575	0	0	460	0	340	202	29	0	544
Saint Louis U.	217	486	1,176	1,549	772	405	0	372	0	0	0	0	0
U. of the District of Columbia	218	721	708	1,388	0	0	0	554	0	0	515	0	319
U. Tulsa	219	1,647	1,520	1,387	0	0	176	0	234	0	892	0	85
Villanova U.	220	1,535	1,543	1,375	0	0	315	335	560	0	165	0	0
Southern U. and A&M C., Baton Rouge	221	1,342	1,454	1,360	0	0	0	7	63	0	1,290	0	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020																			
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec										
California Polytechnic State U., San Luis Obispo	222	2,136	1,566	1,338	186	0	0	621	29	81	307	0	114										
U. South Carolina, Aiken	223	1,490	1,453	1,331	0	0	0	0	0	0	0	0	1,331										
Norfolk State U.	224	1,501	1,940	1,312	0	0	0	0	32	0	0	0	1,280										
Kent State U.	225	1,183	1,860	1,278	6	503	533	0	174	0	62	0	0										
Baylor U.	226	1,189	1,440	1,271	82	188	56	0	658	0	287	0	0										
Delaware State U.	227	1,500	1,218	1,269	i	1,269	i	0	i	0	i	0	i	0	i								
Jackson State U.	228	2,806	2,908	1,262	0	0	0	1,039	190	0	0	0	33										
Morehead State U.	229	1,306	754	1,208	824	351	0	0	33	0	0	0	0										
California State U., Bakersfield	230	928	1,453	1,179	0	0	0	0	102	0	0	0	1,077										
Tennessee State U.	231	1,203	824	1,142	0	0	0	24	543	0	575	0	0										
California State Polytechnic U., Pomona	232	751	728	1,141	86	0	608	295	0	5	112	0	35										
Purdue U., Northwest	233	675	376	1,128	0	0	0	10	61	513	540	0	4										
Alabama A&M U.	234	2,236	i	1,581	i	1,078	i	0	i	0	i	233	i	554	i	0	i	291	i	0	i	0	i
U. Oklahoma, Tulsa	235	667	919	1,066	0	0	0	0	1,066	0	0	0	0										
SUNY, U. Albany	236	74	512	1,039	0	0	0	0	1,039	0	0	0	0										
U. Arkansas, Little Rock	237	1,060	1,224	950	818	0	14	0	0	0	118	0	0										
California State U., Northridge	238	700	604	926	0	145	0	24	111	0	518	83	45										

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
Alfred U.	239	1,374	1,459	887	0	0	0	0	0	0	0	0	887	0
U. Colorado Colorado Springs	240	656	649	877	0	0	0	0	0	228	0	474	0	175
Hampton U.	241	1,296	1,049	866	10	0	35	0	0	821	0	0	0	0
U. Nebraska, Omaha	242	398	683	859	489	6	0	364	0	0	0	0	0	0
Lamar U.	243	1,012	442	838	0	0	632	22	0	27	16	141	0	0
U. of the Virgin Islands	244	87	61	834	790	0	0	0	0	44	0	0	0	0
California State U., Los Angeles	245	642	688	806	0	0	0	299	0	390	0	117	0	0
Texas State U.	246	1,066	623	746	0	1	0	0	0	0	0	0	123	622
Smith C.	247	477	463	725	0	320	0	370	0	0	0	16	0	19
South Carolina State U.	248	208	662	687	0	0	218	0	0	0	0	0	0	469
U. San Diego	249	756	633	686	0	0	0	0	0	0	0	58	0	628
Miami U.	250	281	361	667	0	0	187	0	0	454	0	26	0	0
CUNY, system office	251	1,419	912	662	0	0	0	0	0	0	0	0	0	662
U. Alaska, Anchorage	252	226	562	644	0	0	0	210	0	60	0	85	0	289
Savannah State U.	253	429	526	639	0	242	293	0	0	0	0	0	0	104
Wellesley C.	254	0	0	633	633	0	0	0	0	0	0	0	0	0
California State U., Maritime Academy	255	550	617	621	0	0	81	0	0	0	0	0	0	540
California State U., Chico	256	35	179	613	0	0	0	25	0	345	0	243	0	0
Milwaukee School of Engineering	256	631	695	613	0	148	0	0	0	4	0	55	0	406
U. Hartford	258	42	791	605	0	0	0	0	0	0	0	605	0	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
Christopher Newport U.	259	536	575	566	566	0	0	0	0	0	0	0	0	0
U. North Carolina, general administration	260	49	189	552	0	0	0	0	0	544	0	0	0	8
U. Massachusetts, Boston	261	609	533	547	0	0	0	0	0	547	0	0	0	0
California State U., Fullerton	262	352	288	534	0	0	0	50	0	104	0	76	0	304
Alabama State U.	263	0	0	533	0	0	0	0	0	533	0	0	0	0
California State U., Fresno	264	758	419	526	0	0	0	41	0	348	0	106	0	31
Bucknell U.	265	561	533	512	0	76	63	74	56	0	130	0	113	
West Texas A&M U.	266	534	477	500	0	0	44	2	0	54	0	0	400	
Fort Lewis C.	267	ne	702	477	28	13	0	0	0	55	0	0	0	381
Western Washington U.	268	535	336	475	0	0	0	0	0	0	0	0	0	475
Pace U.	269	395	404	464	0	0	0	0	0	0	0	464	0	0
Liberty U.	270	ne	0	442	0	0	0	0	0	0	0	23	419	0
U. South Dakota	271	663	1,280	440	0	440	0	0	0	0	0	0	0	0
Marshall U.	272	271	502	434	0	3	0	287	0	0	0	11	133	0
Santa Clara U.	273	177	215	393	0	15	0	0	0	5	0	373	0	0
San Francisco State U.	274	486	371	387	0	99	0	68	220	0	0	0	0	0
New York Institute of Technology	275	422	697	372	0	0	0	0	0	268	0	104	0	0
East Carolina U.	276	267	475	366	0	0	0	75	0	0	0	0	0	291

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
U. Ana G. Mendez, Gurabo	277	0	575	365	0	0	0	0	0	0	0	0	0	365
Johnson C. Smith U.	278	0	0	364	0	0	0	349	0	0	0	0	0	15
CUNY, New York City C. of Technology	279	579	442	353	0	0	0	85	0	0	268	0	0	0
Pennsylvania State U., Behrend	280	277	408	337	0	75	0	37	0	75	0	75	75	0
U. North Carolina, Wilmington	281	531	484	335	0	0	0	0	0	98	237	0	0	0
U. Ana G. Mendez, Carolina	282	0	ne	314	0	0	0	0	0	0	0	0	0	314
U. North Florida	283	439	360	304	0	0	0	44	0	22	0	12	0	226
Georgia Southern U.	284	196	174	301	0	0	0	0	0	92	14	195	0	0
Western Carolina U.	285	122	269	291	0	0	0	46	0	0	0	0	0	245
Hofstra U.	286	717	506	288	0	0	0	0	0	0	0	0	0	288
U. Texas Medical Branch	287	1,093	411	276	0	276	0	0	0	0	0	0	0	0
U. Puerto Rico, Rio Piedras	288	117	37	270	0	270	0	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	289	425	111	255	28	0	0	0	0	154	0	53	0	20
U. New Orleans	290	392	344	250	0	0	0	0	0	0	0	147	0	103
CUNY, C. Staten Island	291	0	0	249	0	0	133	34	0	0	0	0	0	82
Northern Illinois U.	292	334	222	246	0	0	0	0	0	2	15	174	0	55

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
Minnesota State U., Mankato	293	80	174	244	0	0	0	0	0	0	0	95	0	149
Southern Illinois U., Edwardsville	294	611	475	240	0	0	0	182	22	35	0	0	0	1
U. Wisconsin-Oshkosh	294	207	230	240	0	0	0	0	158	0	82	0	0	0
U. New Haven	296	557	485	238	11	0	0	80	0	113	34	0	0	0
Benedict C.	297	364	246	237	0	0	0	0	237	0	0	0	0	0
Oakland U.	298	1,076	720	233	0	0	0	0	0	71	162	0	0	0
Lawrence Technological U.	299	386	210	227	0	0	0	176	0	0	51	0	0	0
Keck Graduate Institute	300	190	208	215	0	215	0	0	0	0	0	0	0	0
Bradley U.	301	180	236	214	0	0	0	135	10	0	49	0	0	20
Virginia State U.	302	240	165	210	0	0	0	0	0	118	0	0	0	92
Wake Forest U.	303	49	148	208	0	0	0	0	0	0	0	0	0	208
Oregon Institute of Technology	304	158	272	203	0	0	0	91	0	86	0	0	0	26
U. West Florida	305	0	0	196	0	0	0	0	0	0	185	0	0	11
Purdue U., Fort Wayne	306	93	160	194	0	0	0	1	0	0	141	0	0	52
James Madison U.	307	56	181	186	0	0	0	107	0	44	0	0	0	35
Southern Illinois U., Carbondale	308	386	392	180	0	0	0	8	60	0	54	58	0	0
U. Minnesota, Duluth	308	199	319	180	0	0	0	60	5	115	0	0	0	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
Harvey Mudd C.	310	340	440	175	6 i	7 i	14 i	58 i	16 i	0 i	31 i	13 i	30 i	
Clafin U.	311	42	144	170	1	43	0	0	4	0	0	122	0	
Manhattan C.	311	ne	167	170	0	0	77	93	0	0	0	0	0	
Central State U.	313	100	340	166	0	0	0	154	0	0	0	0	12	
Florida Polytechnic U.	314	ne	283	159	0	0	0	0	4	0	41	114	0	
U. Wisconsin-Green Bay	314	95 i	147 i	159 i	0 i	0 i	0 i	0 i	79 i	0 i	41 i	0 i	39 i	
SUNY, C. of Environmental Science and Forestry	316	249	259	158	0	110	48	0	0	0	0	0	0	
Humboldt State U.	317	4	16	153	0	0	0	153	0	0	0	0	0	
Duquesne U.	318	208	179	146	0	146	0	0	0	0	0	0	0	
Arkansas State U., Jonesboro	319	142	180	144	0	0	0	144	0	0	0	0	0	
Lafayette C.	320	112	107	139	0	0	57	81	0	0	1	0	0	
Hope C.	321	52	116	138	0	0	0	0	0	0	138	0	0	
Alcorn State U.	322	496	330	126	0	0	0	0	0	0	52	74	0	
U. Maryland, Eastern Shore	323	0	0	125	49	76	0	0	0	0	0	0	0	
New School	324	0	99	116	0	0	0	48	50	13	0	0	5	
Kettering U.	325	454	184	114	0	0	0	0	0	0	114	0	0	
Biola U.	326	103 i	109 i	113 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	113 i	
Saginaw Valley State U.	327	136	124	105	0	0	0	0	0	0	0	105	0	
Eastern Michigan U.	328	0	9	102	0	0	0	102	0	0	0	0	0	
Lipscomb U.	329	ne	ne	95 i	0 i	0 i	0 i	0 i	95 i	0 i	0 i	0 i	0 i	
Central Connecticut State U.	330	ne	87	94	80	0	0	0	0	0	14	0	0	

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
Southeastern Louisiana U.	384	0	0	3	0	0	0	0	0	0	3	0	0	0
Doane U.	386	0	0	1 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Central Oklahoma	386	0	0	1 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
All other surveyed institutions	-	80,089	5,289	0	0	0	0	0	0	0	0	0	0	0

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

nec = not elsewhere classified.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$1,066,166 thousand in federally financed R&D expenditures in engineering in FY 2020.

^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.