

TABLE 50

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
All institutions	-	2,155,727	2,206,653	2,327,359	2,434,467	1,549,492	1,570,749	1,657,797	1,736,916
Johns Hopkins U. ^a	1	96,487	150,439	183,818	232,583	90,873	143,918	176,299	222,997
Michigan State U.	2	180,719	158,507	140,832	142,473	131,435	105,035	89,321	92,899
California Institute of Technology	3	85,908	83,649	84,599	106,237	75,782	71,571	72,782	92,720
U. Rochester	4	84,767	88,866	106,277	95,695	80,662	84,512	102,405	90,436
U. Colorado Boulder	5	43,282	54,531	66,848	69,967	38,697	49,962	62,321	64,624
U. California, San Diego	6	38,677	44,584	52,798	66,169	24,191	24,028	25,547	32,298
Harvard U.	7	36,614	36,953	43,696	49,146	22,087	23,294	25,671	29,457
Stanford U.	8	33,393	35,411	49,051	48,826	22,419	23,263	35,992	32,816
Massachusetts Institute of Technology	9	55,226	44,041	43,880	48,695	44,924	34,614	33,496	38,758
Cornell U.	10	44,463	47,530	50,551	48,658	31,859	37,320	39,904	37,180
U. Maryland ^b	11	na	na	47,394	46,013	na	na	34,664	29,752
Florida State U.	12	41,449	43,927	39,877	41,870	22,886	26,286	23,281	26,260
Princeton U.	13	31,045	34,551	38,060	40,161	23,779	25,073	25,639	28,224
U. California, Los Angeles	14	38,111	35,056	34,460	33,263	26,818	23,630	23,350	22,591
U. California, Berkeley	15	25,229	24,630	29,261	32,085	15,643	16,384	17,665	17,480
U. Central Florida	16	26,462	23,077	26,198	29,883	20,272	16,823	16,665	17,100
Yale U.	17	31,984	32,428	32,019	27,884	20,726	19,468	17,859	16,547
U. Illinois, Urbana-Champaign	18	27,267	25,760	24,104	27,506	20,646	18,780	19,128	20,032
SUNY, Stony Brook U.	19	16,674	27,815	27,697	26,615	12,187	19,335	21,289	19,742
U. Texas, Austin	20	26,240	26,391	23,553	26,463	16,068	14,929	13,519	18,638
Pennsylvania State U., University Park and Hershey Medical Center	21	22,291	26,179	26,674	26,281	16,063	17,984	18,349	16,969
U. Wisconsin-Madison	22	24,903	24,980	27,643	24,984	19,868	19,691	19,614	17,822
U. Michigan, Ann Arbor	23	26,966	24,822	24,752	23,596	16,792	15,236	14,747	13,625
U. California, Santa Barbara	24	20,023	17,663	16,998	23,427	12,914	10,856	8,294	13,661
U. Pennsylvania	25	22,816	23,102	23,806	21,371	17,661	16,380	15,939	14,450
Ohio State U.	26	18,886	19,057	22,458	21,007	14,851	15,524	17,794	17,224
U. Minnesota, Twin Cities	27	18,362	19,371	22,848	19,948	15,206	16,100	18,504	16,693
Purdue U., West Lafayette	28	13,303	14,819	15,318	19,417	8,151	8,549	8,498	9,235
U. Washington, Seattle	29	18,622	16,964	19,123	19,281	16,595	15,446	17,410	17,789
U. Texas M. D. Anderson Cancer Center	30	12,763	15,858	19,017	19,060	5,510	6,607	7,922	8,114
U. California, Irvine	31	16,075	16,589	18,441	18,770	9,540	9,934	11,538	10,987
Texas A&M U., College Station and Health Science Center	32	17,691	19,108	21,835	17,848	7,900	9,529	12,329	9,751

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U. Iowa	33	14,778	19,055	18,463	17,099	13,204	17,902	16,600	14,623
Rice U.	34	15,070	14,060	16,234	16,107	9,312	8,839	9,712	9,200
U. Notre Dame	35	15,114	16,252	16,720	15,639	10,239	10,939	11,107	10,607
Northwestern U.	36	12,441	18,337	17,918	15,418	7,509	8,597	10,063	8,508
Iowa State U.	37	9,867	16,452	16,586	14,842	3,941	10,735	10,808	9,760
U. Massachusetts, Lowell	38	10,754	10,236	13,871	14,669	7,366	6,782	7,738	10,138
Vanderbilt U. and Vanderbilt U. Medical Center	39	13,129	14,239	15,954	14,458	6,461	7,143	8,777	8,139
U. Tennessee, Knoxville ^c	40	13,929	15,826	17,897	14,423	10,614	10,820	13,025	8,951
Boston U.	41	13,878	14,384	14,758	14,002	9,644	9,806	9,580	9,963
Louisiana State U., Baton Rouge	42	12,155	14,148	14,926	13,851	7,393	8,197	8,553	9,293
U. Nebraska, Lincoln	43	15,963	15,119	15,908	13,795	11,773	10,574	11,136	9,346
U. Florida	44	11,739	10,474	11,707	13,128	7,480	6,922	8,198	9,258
New York U.	45	9,106	11,661	11,615	12,945	5,491	7,093	7,180	6,927
Rutgers, State U. New Jersey, New Brunswick	46	18,822	10,341	11,380	12,903	10,751	7,595	7,578	6,212
Indiana U., Bloomington	47	12,062	7,165	10,702	12,725	8,158	7,148	7,561	9,642
Northeastern U.	48	9,884	10,413	11,698	12,711	7,078	7,634	7,954	8,026
U. Chicago	49	16,495	13,301	12,617	12,688	13,921	11,582	10,463	10,586
Duke U.	50	9,567	10,029	10,465	12,587	8,887	9,104	9,595	10,780
Washington State U.	51	20,631	17,436	16,288	12,549	7,074	6,667	7,330	6,837
Arizona State U.	52	12,970	12,359	11,934	12,338	5,930	6,077	5,865	6,395
Columbia U. in the City of New York	53	22,538	10,285	11,102	12,331	20,655	8,485	8,586	9,642
U. Virginia, Charlottesville	54	10,903	10,786	11,930	12,224	8,231	8,255	8,914	10,220
Catholic U. of America	55	8,497	9,434	11,192	12,213	8,059	9,090	10,760	11,952
Dartmouth C. and Dartmouth Hitchcock Medical Center	56	11,250	10,542	10,632	12,021	3,957	3,205	3,832	4,677
Georgia Institute of Technology	57	11,390	11,087	12,427	11,892	6,972	6,198	7,871	7,182
North Carolina State U.	58	10,517	10,671	11,957	11,615	7,474	7,424	7,674	7,012
Carnegie Mellon U.	59	9,369	9,912	9,879	11,458	5,486	5,648	5,753	6,254
U. Texas, Arlington	60	8,966	10,412	9,378	10,782	5,830	5,879	6,027	6,615
U. North Carolina, Chapel Hill	61	7,864	8,318	8,412	10,472	5,933	5,441	6,000	8,065
U. California, Davis	62	10,597	10,035	10,672	10,195	7,324	6,947	7,553	7,160
Syracuse U.	63	10,264	9,237	11,440	9,629	6,874	6,218	7,811	5,770
U. Arizona	64	7,069	6,151	8,970	9,230	4,414	3,972	5,354	5,464
Montana State U., Bozeman	65	6,297	4,734	7,183	9,194	5,038	4,223	4,393	5,188
U. Massachusetts, Amherst	66	7,430	7,256	7,403	8,927	4,150	3,763	4,709	4,976

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U. Houston	67	6,366	5,168	7,839	8,637	3,696	2,845	3,366	2,775
U. Pittsburgh, Pittsburgh	68	9,296	9,209	9,772	8,507	6,629	6,891	6,844	6,176
Kansas State U.	69	6,958	8,725	8,878	8,209	5,625	6,066	6,186	6,007
Florida International U.	70	5,299	6,587	5,911	8,185	2,400	3,399	3,113	3,976
Brown U.	71	8,325	9,766	7,636	7,968	4,400	4,482	4,358	3,718
U. Illinois, Chicago	72	5,202	4,949	5,792	7,884	3,966	3,690	4,579	5,874
Auburn U., Auburn	73	5,107	7,303	6,710	7,842	2,707	3,557	4,225	5,012
Virginia Polytechnic Institute and State U.	74	5,637	6,511	7,909	7,831	3,061	3,627	4,538	4,788
West Virginia U.	75	9,391	10,631	8,707	7,810	5,912	6,494	6,067	5,765
Air Force Institute of Technology	76	4,668	5,871	8,478	7,796	3,505	4,241	4,457	4,973
U. California, Riverside	77	8,420	7,903	6,917	7,777	7,357	6,997	5,889	6,880
U. Mississippi	78	8,796	7,349	8,361	7,658	6,115	4,968	5,816	5,768
Texas Tech U.	79	8,265	7,096	6,641	7,419	1,316	1,194	1,656	1,215
U. Oregon	80	6,458	5,695	7,523	7,248	4,846	4,294	4,467	4,826
U. California, Santa Cruz	81	7,496	7,803	7,057	6,991	5,082	5,071	5,048	4,865
Brandeis U.	82	7,256	7,129	7,551	6,866	5,603	4,919	5,958	5,523
Temple U.	83	5,933	5,366	5,717	6,708	3,959	3,696	4,069	3,720
SUNY, Binghamton U.	84	4,167	6,720	3,930	6,624	861	1,096	1,121	2,318
U. Wisconsin-Milwaukee	85	8,290	10,329	8,327	6,526	6,650	8,049	6,609	4,260
U. Oklahoma, Norman and Health Science Center	86	3,570	4,081	3,526	6,397	2,746	3,088	2,731	3,054
Naval Postgraduate School	87	3,524	4,310	6,126	6,244	2,864	3,074	5,302	6,178
U. Connecticut	88	4,871	5,973	6,330	6,034	3,378	3,604	3,691	4,609
Georgetown U.	89	2,964	3,119	3,921	5,833	2,209	1,955	2,939	4,763
Clemson U.	90	5,009	5,148	5,861	5,747	3,499	3,171	3,703	3,820
Georgia State U.	91	7,143	6,368	4,948	5,727	5,452	4,558	4,548	5,143
U. Southern California	92	3,218	2,735	4,410	5,508	2,444	2,715	3,439	4,861
U. Delaware	93	4,954	5,605	5,499	5,429	4,243	4,747	4,630	4,452
Colorado School of Mines	94	3,180	3,128	4,841	5,398	2,657	2,689	4,336	5,059
William & Mary	95	4,933	4,520	5,788	5,280	4,327	3,600	3,752	4,049
U. Maine	96	3,181	4,442	5,457	5,264	674	1,633	1,844	1,648
U. Texas, Dallas	97	2,178	3,845	2,216	5,219	1,230	1,675	1,749	2,914
Washington U., Saint Louis	98	5,829	6,274	5,476	5,060	4,997	5,461	4,827	4,606
Old Dominion U.	99	4,377	3,875	4,709	4,731	3,559	3,276	3,606	3,510
U. Toledo	100	5,198	5,693	4,115	4,645	1,730	2,781	2,724	3,237
Oklahoma State U., Stillwater	101	2,924	3,429	3,654	4,604	552	875	1,164	1,357
George Washington U.	102	3,048	3,699	4,108	4,334	2,269	2,771	3,354	3,597
U. Arkansas, Fayetteville	103	3,209	3,575	3,370	4,313	1,807	1,747	1,765	2,292

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U. New Mexico	104	5,644	4,344	3,989	4,272	5,086	3,967	3,620	3,846
U. Texas, San Antonio	105	2,729	3,086	3,774	4,254	1,999	1,858	2,463	3,017
U. Nevada, Reno	106	4,544	4,126	3,942	4,235	3,498	2,695	2,118	2,590
U. South Florida, Tampa	107	4,385	5,096	4,440	4,213	2,577	2,761	2,225	2,114
Northern Illinois U.	108	4,254	4,988	4,823	4,024	3,100	3,136	3,311	2,567
U. Hawaii, Manoa	109	4,298	3,897	4,040	4,021	3,951	3,677	3,914	3,792
Ohio U.	110	4,731	4,602	3,859	3,971	2,631	2,373	2,386	2,885
American U.	111	1,853	2,245	3,303	3,867	1,344	1,768	2,732	3,205
Delaware State U.	112	2,928	2,434	3,716	3,848	2,182	1,567	1,158	1,207
U. Nevada, Las Vegas	113	4,724	4,989	3,765	3,807	3,934	3,504	1,321	982
Missouri U. of Science and Technology	114	687	1,019	1,017	3,792	638	978	620	2,758
U. Kentucky	115	3,433	2,366	2,937	3,751	2,976	1,928	2,534	3,116
New Jersey Institute of Technology	116	4,579	4,059	4,090	3,748	1,772	1,430	1,511	1,542
U. Miami	117	5,579	4,079	4,465	3,713	3,999	3,451	4,041	3,161
U. North Texas, Denton	118	1,538	2,044	3,517	3,689	910	1,240	1,445	1,222
Wayne State U.	119	4,784	5,025	4,317	3,654	3,054	3,666	2,614	2,469
U. Alabama, Tuscaloosa	120	2,480	3,078	2,437	3,530	1,835	2,575	2,287	2,568
SUNY, U. Buffalo	121	4,396	4,227	4,236	3,526	2,474	2,949	2,998	2,412
Rochester Institute of Technology	122	2,983	3,316	3,369	3,504	2,305	2,468	2,219	2,160
Mississippi State U.	123	3,286	4,773	4,710	3,475	1,392	2,737	2,424	1,138
U. Missouri, Columbia	124	9,902	9,092	6,020	3,443	8,540	7,613	2,544	2,486
Emory U.	125	2,599	2,773	2,882	3,433	1,626	1,844	2,262	2,729
CUNY, City C.	126	5,193	4,213	3,207	3,361	3,709	3,260	2,179	2,626
Hampton U.	127	4,615	4,129	4,044	3,142	4,615	4,129	4,044	3,142
U. California, Merced	128	2,259	2,649	2,190	3,101	1,399	1,699	1,387	2,119
U. Cincinnati	129	4,027	4,352	3,673	3,078	2,479	2,643	2,483	2,036
Tulane U.	130	4,563	3,866	3,327	2,986	2,893	2,218	1,594	1,971
Baylor U.	131	2,069	2,585	2,866	2,968	640	1,085	1,213	1,136
North Carolina Central U.	132	3,603	2,850	1,881	2,878	3,603	2,850	1,881	2,834
Colorado State U., Fort Collins	133	3,057	2,772	2,837	2,855	2,676	2,649	2,140	2,101
U. South Carolina, Columbia	134	3,132	2,941	2,203	2,806	2,479	2,335	1,774	2,264
CUNY, Advanced Science Research Center	135	235	329	1,640	2,778	183	232	1,252	2,096
U. Maryland, Baltimore County	136	1,498	2,037	2,742	2,753	1,233	1,654	2,261	2,300
U. North Carolina, Charlotte	137	2,543	2,282	2,804	2,742	2,033	1,454	1,770	1,901
U.S. Air Force Academy	138	2,730	844	2,603	2,714	2,128	249	2,603	2,714
U. Georgia	139	2,425	3,331	1,053	2,701	588	538	722	792
U. New Hampshire	140	933	1,423	1,717	2,672	819	900	1,119	2,283

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Kent State U.	141	2,641	2,636	2,205	2,591	1,969	1,670	1,355	1,617
California State U., Northridge	142	2,387	1,865	2,397	2,567	2,341	1,788	2,312	2,373
Rensselaer Polytechnic Institute	143	5,158	4,705	4,936	2,554	2,290	2,699	1,913	1,151
California Polytechnic State U., San Luis Obispo	144	1,648	1,536	2,783	2,494	519	572	926	937
U. Alabama, Birmingham	145	2,410	2,675	2,419	2,491	1,915	2,340	2,140	2,214
Illinois Institute of Technology	146	3,330	3,188	2,772	2,476	2,986	2,897	2,453	2,125
Rockefeller U.	147	2,692	2,870	2,607	2,464	581	595	350	583
Utah State U.	148	2,192	1,919	2,318	2,462	829	1,294	1,586	1,661
U. Vermont	149	751	912	793	2,441	449	496	646	1,383
SUNY, U. Albany	150	2,486	1,911	2,156	2,427	250	224	279	533
Southern Methodist U.	151	2,309	2,237	1,900	2,378	2,184	2,050	1,701	1,934
Central Michigan U.	152	1,669	2,121	2,527	2,366	1,072	1,527	2,168	1,943
Oakland U.	153	1,003	890	2,343	2,300	817	743	933	886
Michigan Technological U.	154	1,839	1,930	2,215	2,169	346	299	440	640
U. Texas, El Paso	155	2,002	1,385	1,068	2,155	1,258	731	648	1,024
U. Kansas	156	3,714	2,578	2,269	2,108	3,339	2,424	2,233	1,983
Brigham Young U., Provo	157	1,869	1,963	2,696	2,034	1,552	1,851	2,216	1,676
Stevens Institute of Technology	158	1,323	1,469	2,045	1,824	1,166	1,297	1,960	1,648
Boston C.	159	2,096	1,783	2,384	1,814	927	1,470	1,809	1,471
Embry-Riddle Aeronautical U.	160	189	631	724	1,787	154	265	490	902
Case Western Reserve U.	161	3,044	2,799	2,476	1,767	2,688	2,405	2,170	1,610
U. Alabama, Huntsville	161	2,743	1,656	1,724	1,767	1,845	869	741	886
U. Puerto Rico, Rio Piedras	163	2,629	1,930	2,639	1,653	1,742	1,197	1,587	1,067
Tufts U.	164	1,316	467	234	1,621	1,216	467	216	1,587
San Diego State U.	165	1,795	1,344	1,422	1,561	373	408	507	440
U. South Dakota	166	936	1,220	2,089	1,555	365	456	1,313	976
U. Denver	167	784	1,632	1,147	1,456	662	1,065	641	795
Jackson State U.	168	1,446	1,637	1,586	1,451	1,282	1,417	1,446	1,314
New Mexico State U.	169	1,999	1,656	1,762	1,386	1,789	1,493	1,532	1,132
Florida A&M U.	170	3,496	4,455	3,463	1,371	3,239	4,254	3,337	1,327
Wake Forest U.	171	1,556	1,337	1,680	1,366	1,416	1,278	1,344	1,103
Florida Institute of Technology	172	1,556	759	650	1,364	1,494	504	428	1,193
San Francisco State U.	173	1,129	1,169	1,300	1,351	739	769	958	998
Worcester Polytechnic Institute	173	617	1,061	3,269	1,351	447	551	525	582
Lehigh U.	175	2,076	1,897	1,195	1,348	1,392	1,096	845	868

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Oregon State U.	176	573	906	1,204	1,310	571	812	1,112	1,304
U. Louisiana, Lafayette	177	2,490	2,146	460	1,283	38	159	22	44
Wright State U.	178	2,021	2,045	1,373	1,250	1,676	1,511	1,179	1,014
Virginia Commonwealth U.	179	928	1,320	1,086	1,249	717	1,190	983	901
U.S. Naval Academy	180	1,101	950	1,468	1,217	886	791	1,370	1,193
U. Massachusetts, Boston	181	905	1,021	1,380	1,214	593	502	552	533
CUNY, Hunter C.	182	1,260	1,285	1,625	1,194	624	800	1,186	973
Wesleyan U.	183	1,541	1,030	1,366	1,130	922	805	1,037	791
U. North Dakota	184	0	813	887	1,123	0	78	96	129
North Carolina Agricultural and Technical State U.	185	929	891	1,263	1,116	902	855	1,211	1,049
New Mexico Institute of Mining and Technology	186	621	821	1,520	1,074	616	808	1,478	1,061
Clark U.	187	542	421	350	1,054	315	245	180	586
Florida Atlantic U.	188	323	472	560	991	145	236	285	481
Louisiana Tech U.	189	1,302	1,038	1,034	980	542	362	317	252
Dillard U.	190	1,053	785	606	959	703	352	122	646
Northern Arizona U.	191	23	324	538	941	0	89	212	352
Prairie View A&M U.	192	1,197	1,517	783	932	402	248	225	97
U. San Diego	193	243	292	573	918	109	172	353	496
U. California, San Francisco	194	342	349	370	917	0	0	4	0
U. Missouri, Kansas City	195	1,564	1,637	1,368	894	1,052	1,075	1,019	726
Bowling Green State U.	196	657	722	593	849	305	253	233	590
George Mason U.	197	790	487	445	842	550	408	311	700
California State U., San Marcos	198	203	330	225	841	203	330	225	841
Creighton U.	199	862	644	957	837	513	326	576	529
East Carolina U.	200	538	596	591	814	179	214	133	305
Texas A&M U.-Commerce	201	423	898	643	810	350	754	531	688
U. New Orleans	202	493	611	757	803	392	508	605	551
U. Memphis	203	359	474	578	791	16	182	230	353
Cleveland State U.	204	436	555	639	786	116	174	277	409
Christopher Newport U.	205	402	368	656	766	402	344	470	518
Howard U.	206	839	601	719	762	789	525	559	612
U. of the Virgin Islands	207	0	0	0	749	0	0	0	749
Idaho State U.	208	3,570	4,072	3,126	742	1,994	2,413	1,686	394
Texas State U.	209	1,959	1,735	1,421	735	1,469	1,663	1,365	734
North Dakota State U.	210	797	482	764	732	334	382	288	197
Amherst C.	211	763	809	1,312	705	523	590	1,103	603

TABLE 50

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
South Dakota School of Mines and Technology	212	941	1,163	1,098	693	827	1,003	1,098	693
SUNY, Geneseo	213	811	869	843	683	620	592	663	542
U. Wyoming	214	722	1,385	892	679	722	1,118	835	652
Clark Atlanta U.	215	362	0	461	671	357	0	455	662
Western Michigan U. and Homer Stryker M.D. School of Medicine	216	643	679	571	660	443	530	465	509
Norfolk State U.	217	682	396	311	650	682	396	311	650
California State U., Los Angeles	218	694	1,162	745	639	165	612	720	622
Southern U. and A&M C., Baton Rouge	219	1,231	964	716	634	1,206	822	573	427
CUNY, Graduate Center	220	8	0	353	630	0	0	330	435
San Jose State U.	221	595	397	461	626	578	391	455	615
Lewis and Clark C.	222	204	153	141	598	44	61	108	441
U. Texas Rio Grande Valley	223	327	330	285	595	217	317	283	594
Tennessee Technological U.	224	602	671	635	594	453	543	544	488
California State U., East Bay	225	ne	ne	ne	584	ne	ne	ne	221
Hope C.	226	381	398	614	560	357	343	598	444
U. Central Oklahoma	227	381	631	561	557	259	519	517	512
CUNY, C. Staten Island	228	260	701	777	542	260	540	659	542
Villanova U.	229	159	255	436	520	87	123	239	306
Indiana U.-Purdue U., Indianapolis	230	272	205	418	509	221	165	370	455
U. Massachusetts, Dartmouth	231	268	212	441	499	40	39	64	75
California State U., Fullerton	232	542	465	392	481	541	454	315	396
Bryn Mawr C.	233	863	775	635	462	237	306	335	55
CUNY, Queens C.	234	387	648	553	458	321	409	295	171
U. Dayton	235	1,311	1,030	539	438	1,283	1,013	525	428
U. Louisville	236	408	379	291	426	213	119	105	57
Western Kentucky U.	237	1,211	955	553	425	302	365	349	289
Portland State U.	238	525	90	195	418	275	38	85	344
CUNY, Lehman C.	239	210	360	129	409	210	360	0	409
Rutgers, State U. New Jersey, Newark	240	255	162	109	408	211	115	32	261
Clarkson U.	241	254	283	198	388	198	196	148	244
U. Puerto Rico, Mayaguez	242	1,023	1,121	380	367	697	754	287	292
Swarthmore C.	243	397	442	246	353	319	367	199	139
U. Colorado Denver and Anschutz Medical Campus	244	168	71	126	348	159	57	118	348
Alabama A&M U.	245	831	657	485	331	695	537	380	259

TABLE 50

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Southern Illinois U., Carbondale	246	908	624	378	327	494	299	269	243
Marquette U.	247	395	150	315	320	219	19	83	225
Williams C.	248	234	197	329	315	226	189	189	182
C. New Jersey	249	212	278	ne	312	209	278	ne	306
Missouri State U.	250	15	93	296	305	0	78	278	289
Texas Christian U.	251	343	135	149	299	219	102	0	175
James Madison U.	252	354	120	126	298	304	120	126	182
Kenyon C.	253	ne	373	410	291	ne	261	292	194
Kennesaw State U.	254	38	146	484	288	38	42	100	165
Yeshiva U.	255	0	0	0	286	0	0	0	286
Kettering U.	256	643	370	62	285	451	326	27	241
Harvey Mudd C.	257	305	126	309	284	141	20	72	96
California State U., Fresno	258	278	391	341	283	256	366	341	252
CUNY, Baruch C.	259	230	241	375	276	228	241	330	275
Rowan U.	259	385	496	576	276	157	344	465	194
Northern Kentucky U.	261	144	178	242	270	90	94	174	203
Oberlin C.	261	303	235	263	270	295	224	255	191
U.S. Military Academy	263	448	120	35	269	448	120	35	269
DePaul U.	264	152	185	187	267	97	111	111	205
U. Montana, Missoula	265	595	318	244	260	463	295	117	77
Drexel U.	266	1,728	2,312	1,663	258	1,201	1,733	1,303	0
U. Idaho	267	561	210	326	245	348	157	188	160
CUNY, John Jay C. of Criminal Justice	268	0	0	0	238	0	0	0	238
Morgan State U.	269	276	113	34	234	276	113	30	218
Vassar C.	270	75	501	113	232	75	501	109	147
Illinois State U.	271	130	157	184	229	128	123	145	220
East Tennessee State U.	272	168	293	171	227	159	193	140	188
Lafayette C.	272	131	146	183	227	130	146	182	205
Indiana U. Pennsylvania	274	92	140	126	218	89	105	82	175
Trinity U.	274	97	79	194	218	35	35	43	61
Morehouse C.	276	162	223	213	216	162	223	213	216
CUNY, York C.	277	ne	ne	123	214	ne	ne	123	181
CUNY, New York City C. of Technology	278	ne	30	347	212	ne	18	314	200
California State U., Sacramento	279	100	104	161	207	69	78	97	152
Boise State U.	280	219	219	256	202	207	167	214	94
Fisk U.	281	2,008	89	0	200	2,008	89	0	200
U. North Florida	282	318	225	179	197	109	97	100	88
CUNY, Brooklyn C.	283	198	72	187	193	156	28	113	118
Towson U.	284	153	584	446	191	80	555	401	50
U. Wisconsin-La Crosse	285	18	164	49	188	0	126	44	151
South Carolina State U.	286	708	743	175	182	708	739	175	182
Rhode Island C.	287	0	0	84	179	0	0	84	179

TABLE 50

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Wisconsin-River Falls	288	77	33	ne	175	0	0	ne	174
Macalester C.	289	67	11	139	171	67	11	50	31
U. Tulsa	290	869	566	268	163	571	313	181	71
Bucknell U.	291	0 i	0	167	160 i	0 i	0	167	160 i
Saint Louis U.	292	140	105	205	156	0	89	67	67
U. Washington, Bothell	292	0	0	256	156	0	0	215	156
Bates C.	294	393	246	282	155	184	143	141	94
California State U., Chico	295	0	78	156	150	0	68	150	144
Colgate U.	296	269	185	133	147	70	100	34	19
Haverford C.	296	112 i	54 i	91 i	147 i	38	17	37	49
Santa Clara U.	298	196	503	86	145	196	503	81	130
U. Colorado Colorado Springs	298	765	449	203	145	65	105	54	22
Humboldt State U.	300	78	106	115	144	52	69	48	76
Miami U.	301	25	124	199	142	4	86	153	116
C. Charleston	302	64	88	103	135	0	17	49	72
Bowdoin C.	303	117	115	250	131	115	108	89	125
Calvin U.	303	32	120	137	131 i	10	102	123	118 i
Reed C.	305	41	131	401	129	0	6	32	41
SUNY, C. Plattsburgh	306	184	305	369	126	129	261	259	110
U. Minnesota, Duluth	307	287	230	237	123	202	188	196	17
Duquesne U.	308	232	195	135	122	79	55	56	43
Indiana State U.	309	107	126	93	121	107	126	93	121
Georgia Southern U.	310	306	244	190	120	56	65	34	47
Black Hills State U.	311	580	388	363	116	373	370	331	91
Appalachian State U.	312	358	72	87	115	342	67	73	98
Eastern Michigan U.	313	29	22	40	114	0	10	24	31
Southeastern Louisiana U.	314	124	88	25	113	83	54	7	44
U. Richmond	315	429	189	132	112	330	117	99	98
U. North Carolina, Wilmington	316	242	90	52	110	205	47	51	110
Union C., Schenectady	316	101	268	201	110	0	193	170	81
Central Washington U.	318	97	125	178	109	85	118	170	103
Long Island U.	318	77	60	178	109	77	60	171	51
Willamette U.	320	88	117	77	108	58	100	45	4
Whitman C.	321	ne	ne	55	104	ne	ne	40	77
Occidental C.	322	93	62	23	103	93	62	23	70
Pomona C.	322	73	109	40	103	2	20	0	0
Smith C.	324	66	170	173	102	34	157	160	95
U. Rhode Island	325	52	104	95	100	18	89	85	79
West Chester U. Pennsylvania	326	197	391	149	98	92	31	0	0
U. Puget Sound	327	61	ne	ne	96	0	ne	ne	50
Hobart and William Smith Colleges	328	74	ne	122	95	69	ne	120	82

TABLE 50

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
William Paterson U.	329	1	36	35	94	0	0	0	0
Wheaton C., Wheaton	330	30	56	74	93	4	17	74	66
U. North Georgia	331	30	71	4	91	28	71	0	0
California State Polytechnic U., Pomona	332	0	0	0	89	0	0	0	89
Colby C.	332	148	92	67	89	117	68	37	74
Mercer U.	334	0	81	83	87	0	0	0	0
Fort Hays State U.	335	ne	ne	82	86	ne	ne	20	21
U. Northern Iowa	335	152	26	18	86	145	26	14	86
Winston-Salem State U.	335	0	0	0	86	0	0	0	86
Milwaukee School of Engineering	338	86	49	69	85	86	49	69	0
Albion C.	339	110	72	69	84	53	31	50	50
Carleton C.	339	157	78	219	84	80	64	2	84
Chapman U.	341	1,415	86	55	81	916	0	0	71
Tougaloo C.	341	0	0	0	81	0	0	0	81
Gettysburg C.	343	47 i	39	54	80	33	10	25	41
U. Central Arkansas	343	385	266	149	80	232	232	136	76
Seattle U.	345	117	139	73	79	104	129	50	58
Franklin and Marshall C.	346	144	127	122	78	134	78	54	48
St. John's U., New York	347	124	63	22	76	0	0	0	0
C. Wooster	348	138	88	179	75	118	57	100	35
Mercyhurst U.	348	17 i	ne	74 i	75 i	17 i	ne	47 i	48 i
Sam Houston State U.	350	29	37	78	74	27	23	69	72
U. Maryland Center for Environmental Science	351	0	17	55	72	0	17	55	72
Azusa Pacific U.	352	78	82	81	68	0	0	28	0
Eastern Washington U.	353	36	33	34	66	36	33	34	66
Saint Joseph's U.	353	127	90	300	66	40	2	0	0
Grambling State U.	355	365	267	129	65	235	137	52	7
U. Wisconsin-Green Bay	356	32 i	45 i	64 i	63 i	25 i	24 i	36 i	39 i
U. of St. Thomas (MN)	357	84	47	22	61	66	38	19	41
Claremont McKenna C.	358	0	0	0	59	0	0	0	59
Florida Polytechnic U.	358	ne	ne	68	59	ne	ne	0	0
Grinnell C.	360	200	419	364	58	0	0	0	0
U. Nebraska, Omaha	360	232	189	167	58	210	179	130	0
U. Wisconsin-Oshkosh	362	53 i	56 i	55 i	56 i	46 i	48 i	47 i	48 i
St. Edward's U.	363	390	255	164	55	320	160	150	55
U. of the Pacific	363	106	63	53	55	106	63	53	55
Fairfield U.	365	139	41	81	52	9	41	81	42
Loyola U., Chicago	365	63	17	36	52	0	0	0	0

TABLE 50

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Biola U.	367	42 i	44 i	49 i	50 i	34 i	34 i	38 i	39 i
Clafin U.	367	0	0	7	50	0	0	7	50
U. North Carolina, Greensboro	367	218	106	125	50	61	106	125	5
U. Northern Colorado	367	61	60	19	50	26	26	0	0
Skidmore C.	371	26	12	78	49	4	0	35	41
Fayetteville State U.	372	524	300	200	48	524	300	200	48
U. Puerto Rico, Cayey	372	0	97	57	48	0	4	57	48
U. of the Sciences Philadelphia	374	58	61	30	47	31	1	1	25
Davidson C.	375	47	0	70	45	0	0	7	45
Lipscomb U.	375	ne	ne	ne	45 i	ne	ne	ne	35 i
Hamilton C.	377	53	165	116	44	5	3	12	3
Montclair State U.	378	0	0	0	43	0	0	0	0
Salisbury U.	378	18	17	13	43	7	4	0	0
U. Wisconsin-Stevens Point	378	25 i	31 i	37 i	43	25 i	31 i	37 i	43
Saint Michael's C.	381	45	61	60	42	45	61	60	42
Pacific U.	382	627	161	223	41	610	107	169	21
Eastern Kentucky U.	383	0	0	0	40	0	0	0	35
Western Illinois U.	384	0	0	19	39	0	0	19	39
Texas A&M International U.	385	53	8	3	38	43	1	0	38
C. of Saint Benedict	386	91	39	39 i	37 i	0	0	0 i	0 i
Colorado C.	386	288	84	19	37	266	60	14	15
Arkansas State U., Jonesboro	388	232	167	66	36	165	120	47	33
U. Hawaii, Hilo	388	362	383	103	36	362	383	103	36
Weber State U.	388	ne	ne	ne	36	ne	ne	ne	21
Saint John's U., Collegeville	391	81	35	35 i	33 i	0	0	0 i	0 i
South Dakota State U.	391	11	4	53	33	5	4	53	32
Rutgers, State U. New Jersey, Camden	393	0	0	6	32	0	0	0	0
Tuskegee U.	393	190 i	154	32	32	154	154	32	32
St. Olaf C.	395	58	30	0	31	0	0	0	7
Stockton U.	396	ne	0	0	28	ne	0	0	0
Elon U.	397	99	108	49	27	0	0	0	0
U. San Francisco	397	26	16	28	27	0	0	0	0
Lamar U.	399	12	32	24	26	0	21	0	0
Northern Michigan U.	399	0	0	0	26	0	0	0	0
U. South Alabama	399	57	0	0	26	36	0	0	25
California State U., Dominguez Hills	402	12	59	40	25	0	45	32	3
SUNY, Oswego	403	7	13	3	23	0	0	0	0
Youngstown State U.	403	164	27	12	23	164	18	5	20
Ithaca C.	405	ne	ne	ne	22	ne	ne	ne	0
Mount Holyoke C.	405	93	0	0	22	0	0	0	0
Pennsylvania State U., Behrend	405	56	49	75	22	27	15	16	15
Murray State U.	408	30	28	21	20	0	0	0	0

TABLE 50

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

(Dollars in thousands)

Institution	Rank	Total				Federally financed				
		2017	2018	2019	2020	2017	2018	2019	2020	
Middlebury C.	409	222	0	114	19	222	0	104	0	
California Lutheran U.	410	ne	ne	10	17	ne	ne	0	0	
U. Nebraska, Kearney	410	132	7	65	17	27	5	8	9	
U. Minnesota, Morris	412	19	ne	10	16	19	ne	0	0	
Austin Peay State U.	413	46	155	47	13	19	142	36	13	
Southern Connecticut State U.	413	588	327	92	13	534	279	53	0	
Furman U.	415	0	0	2	12	0	0	2	1	
Marshall U.	416	16	16	5	11	8	2	0	0	
St. Cloud State U.	416	17	18	11	11	5	1	2	3	
Grand Valley State U.	418	23	35	33	10	21	26	27	9	
Ball State U.	419	14	11	22	9	6	0	2	0	
U. Michigan, Flint	420	23	31	14	8	17	19	1	0	
U. Southern Mississippi	421	10	281	307	7	10	281	307	7	
Dickinson C.	422	0	ne	14	6	0	ne	14	0	
Lawrence Technological U.	422	16	0	0	6	16	0	0	6	
Andrews U.	424	ne	ne	1	5	ne	ne	0	0	
California State U., Stanislaus	424	4	0	5	5	0	0	0	0	
Midwestern State U.	424	ne	ne	ne	5	ne	ne	ne	0	
SUNY, C. Brockport	424	5	4	15	5	0	0	6	2	
U. of Mary Washington	424	ne	136	16	5	ne	0	16	5	
Central Connecticut State U.	429	25	ne	17	4	13	ne	0	0	
Minnesota State U., Mankato	429	5	19	0	4	0	19	0	2	
Trinity C., Hartford	429	7	3	5	4	0	0	0	0	
Pittsburg State U.	432	10	0	2	3	10	0	2	3	
Purdue U., Fort Wayne	432	17	10	0	3	3	6	0	0	
Stephen F. Austin State U.	432	1	3	0	3	0	0	0	0	
Suffolk U.	432	111	i	ne	3	56	i	ne	ne	0
SUNY, Buffalo State	432	43	23	19	3	43	23	17	2	
U. Missouri, Saint Louis	432	181	139	17	3	135	136	14	0	
Hofstra U.	438	9	10	4	2	0	0	0	0	
Loyola Marymount U.	438	104	17	54	2	0	0	0	0	
Pepperdine U.	438	7	6	11	2	0	0	0	0	
U. New Haven	438	0	4	4	2	0	0	0	0	
La Sierra U.	442	12	5	1	1	0	0	0	0	
Texas A&M U.-Kingsville	442	64	33	48	1	57	28	46	0	
All other surveyed institutions	-	62,401	61,859	3,371	0	45,374	43,143	1,820	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 \$220,490 thousand imputed for total and \$214,141 thousand reported for federally financed R&D expenditures in physics in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

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

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

Note(s):

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

Source(s):

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