

TABLE 48
Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2019 physical sciences: FYs 2016–19 and by subfield for FY 2019
(Dollars in thousands)

Institution	Rank	2016	2017	2018	2019					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
All institutions	-	3,285,958	3,378,325	3,466,556	3,691,334	514,432	1,182,806	165,880	1,657,419	170,797
Johns Hopkins U. ^a	1	172,102	177,702	229,887	306,572	76,411	22,678	3,898	176,299	27,286
California Institute of Technology	2	156,093	159,408	155,495	156,658	42,956	28,469	12,451	72,782	0
U. Rochester	3	78,470	84,330	88,080	106,520	0	4,115	0	102,405	0
U. Colorado Boulder	4	64,641	67,778	78,424	99,527	24,765	6,877	0	62,321	5,564
Cornell U.	5	81,565	83,621	86,823	95,625	10,835	19,679	1,905	39,904	23,302
Michigan State U.	6	119,113	138,056	111,792	95,267	7	5,939	0	89,321	0
Massachusetts Institute of Technology	7	112,990	102,420	96,347	94,635	28,681	18,377	1,830	33,496	12,251
U. California, Berkeley	8	102,210	90,916	81,410	86,349	50,022	15,560	0	17,665	3,102
U. Maryland ^b	9	na	na	na	82,395	31,617	7,246	8	34,664	8,860
U. Arizona	10	65,684	66,693	68,086	74,823	60,020	7,735	1,714	5,354	0
Stanford U.	11	76,895	70,448	63,318	71,817	2,757	22,382	8,209	35,992	2,477
Pennsylvania State U., University Park and Hershey Medical Center	12	42,884	51,848	53,057	56,943	11,704	11,300	15,590	18,349	0
Princeton U.	13	41,171	44,946	53,677	54,879	18,174	11,066	0	25,639	0
Harvard U.	14	51,548	52,122	52,414	53,614	6,001	20,722	0	25,671	1,220
U. Texas, Austin	15	56,091	48,840	48,196	53,535	4,263	7,452	28,301	13,519	0
U. Wisconsin-Madison	16	52,918	51,405	51,870	52,807	2,506	17,502	0	19,614	13,185
Northwestern U.	17	44,427	46,458	48,305	49,120	2,113	25,466	9,925	10,063	1,553
U. Washington, Seattle	18	47,369	47,257	45,871	49,064	7,572	19,183	1,395	17,410	3,504
U. Illinois, Urbana-Champaign	19	47,197	45,778	47,691	48,539	7,485	21,926	0	19,128	0
U. California, San Diego	20	45,240	46,872	43,134	47,019	0	21,472	0	25,547	0
U. Chicago	21	41,022	46,097	42,683	43,322	8,199	19,011	5,640	10,463	9
U. California, Los Angeles	22	43,016	38,863	36,558	39,856	0	16,506	0	23,350	0
U. California, Santa Barbara	23	19,223	34,300	32,011	38,560	4,341	10,287	15,113	8,294	525
U. Pennsylvania	24	31,246	32,675	36,065	38,518	6	12,441	10,132	15,939	0
U. California, San Francisco	25	32,089	36,290	35,467	38,491	0	38,487	0	4	0
U. Michigan, Ann Arbor	26	34,101	38,344	36,588	37,944	4,029	19,168	0	14,747	0
Ohio State U.	27	28,953	29,488	31,707	35,564	3,296	14,421	53	17,794	0
Florida State U.	28	29,155	32,743	38,693	35,376	350	11,289	413	23,281	43
Yale U.	29	35,168	36,023	35,815	33,736	1,798	14,079	0	17,859	0
U. Minnesota, Twin Cities	30	29,046	28,016	29,565	33,493	877	14,112	0	18,504	0
SUNY, Stony Brook U.	31	19,815	21,025	28,239	32,009	1,546	9,174	0	21,289	0
U. Utah	32	16,265	20,933	15,844	31,461	5,731	24,189	0	0	1,541

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					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Columbia U. in the City of New York	33	33,077	40,520	27,308	29,085	6,923	8,577	4,999	8,586	0
U. Notre Dame	34	26,230	26,579	26,977	29,077	0	17,970	0	11,107	0
U. California, Irvine	35	23,606	24,639	24,213	27,916	0	16,378	0	11,538	0
Georgia Institute of Technology	36	25,499	22,254	23,459	25,844	0	17,973	0	7,871	0
Iowa State U.	37	10,033	11,892	26,683	25,466	0	7,048	7,610	10,808	0
U. North Carolina, Chapel Hill	38	21,223	21,688	23,430	24,236	408	16,280	0	6,000	1,548
Texas A&M U., College Station and Health Science Center	39	17,689	17,871	18,933	21,954	814	7,711	967	12,329	133
U. Delaware	40	18,946	19,061	19,454	21,923	901	7,107	9,285	4,630	0
U. Iowa	41	18,083	18,135	22,483	21,267	1,060	3,607	0	16,600	0
Purdue U., West Lafayette	42	18,869	19,426	19,253	20,328	0	11,830	0	8,498	0
Indiana U., Bloomington	43	16,422	18,428	19,047	20,230	312	12,357	0	7,561	0
New York U.	44	14,847	15,340	17,870	19,720	0	12,540	0	7,180	0
Boston U.	45	16,692	18,675	19,197	19,469	1,203	8,686	0	9,580	0
U. Pittsburgh, Pittsburgh	46	16,587	17,200	17,541	18,857	734	11,279	0	6,844	0
Washington U., Saint Louis	47	15,323	16,253	16,350	18,746	0	9,548	4,371	4,827	0
Duke U.	48	15,290	14,743	16,332	18,436	0	8,841	0	9,595	0
Washington State U.	48	16,820	15,632	16,798	18,436	139	7,003	243	7,330	3,721
U. Central Florida	50	19,798	21,993	18,490	18,300	0	1,635	0	16,665	0
New Mexico State U.	51	11,905	23,577	19,047	18,114	2,502	4,397	0	1,532	9,683
U. Nebraska, Lincoln	52	18,373	16,244	17,422	18,047	0	6,911	0	11,136	0
U. Virginia, Charlottesville	53	23,093	23,628	17,616	17,967	2,379	6,674	0	8,914	0
U. California, Davis	54	16,591	16,172	14,930	17,554	0	9,783	0	7,553	218
Rutgers, State U. New Jersey, New Brunswick	55	27,813	19,984	18,582	17,535	1,396	2,680	3,025	7,578	2,856
U. Hawaii, Manoa	56	17,432	16,511	15,075	17,498	8,318	1,366	0	3,914	3,900
Rice U.	57	16,683	17,838	15,712	17,279	1,404	6,163	0	9,712	0
Catholic U. of America	58	15,143	15,676	16,408	16,992	0	481	0	10,760	5,751
U. Tennessee, Knoxville	59	10,961	15,858	15,120	16,674	0	3,649	0	13,025	0
U. Massachusetts, Amherst	60	16,767	13,988	14,703	16,405	3,265	8,431	0	4,709	0
U. California, Santa Cruz	61	14,109	12,626	12,442	15,755	2,872	7,835	0	5,048	0
Emory U.	62	14,104	13,504	14,297	15,695	0	13,433	0	2,262	0
U. Florida	63	15,314	14,618	14,100	15,416	496	6,722	0	8,198	0
U. Maryland, Baltimore County	64	12,544	12,116	11,959	14,774	11,626	824	63	2,261	0
Vanderbilt U. and Vanderbilt U. Medical Center	65	18,241	15,765	14,724	14,537	0	5,760	0	8,777	0
Virginia Polytechnic Institute and State U.	66	8,168	8,276	10,816	14,250	139	9,475	75	4,538	23

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					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Brown U.	67	12,533	11,988	12,878	14,103	0	3,932	0	4,358	5,813
North Carolina State U.	68	13,220	13,484	14,391	13,392	0	5,718	0	7,674	0
Louisiana State U., Baton Rouge	69	11,838	10,974	12,376	12,967	0	4,312	0	8,553	102
U. California, Riverside	70	14,788	14,606	13,554	12,908	0	7,019	0	5,889	0
Northeastern U.	71	10,407	10,798	12,632	12,859	0	4,258	65	7,954	582
U. Southern California	72	10,692	10,069	11,958	12,667	0	7,884	1,344	3,439	0
U. Oklahoma, Norman and Health Science Center	73	9,419	9,400	10,937	12,491	0	9,760	0	2,731	0
Temple U.	74	8,560	11,559	11,036	11,881	0	5,636	0	4,069	2,176
Arizona State U.	75	10,142	11,476	11,911	11,735	0	5,870	0	5,865	0
Georgia State U.	76	10,252	12,825	11,050	11,524	1,748	5,085	0	4,548	143
Wayne State U.	77	8,403	7,920	9,469	11,130	0	7,853	0	2,614	663
Carnegie Mellon U.	78	11,050	9,259	9,606	10,233	0	3,818	85	5,753	577
Colorado State U., Fort Collins	79	8,016	7,492	9,920	10,106	0	7,684	0	2,140	282
U. Illinois, Chicago	80	8,500	8,968	8,196	9,941	0	5,362	0	4,579	0
Florida International U.	81	4,509	7,903	8,984	9,893	0	6,744	0	3,113	36
Montana State U., Bozeman	82	11,298	9,898	9,333	9,841	0	5,448	0	4,393	0
Kansas State U.	83	7,994	7,789	9,103	9,827	0	3,641	0	6,186	0
U. Mississippi	84	8,087	8,502	7,140	9,706	0	3,890	0	5,816	0
West Virginia U.	85	6,095	7,553	9,185	9,683	0	3,616	0	6,067	0
U. Alaska, Fairbanks	86	8,717	9,114	8,928	9,634	9,517	48	0	0	69
U. Southern Mississippi	87	7,287	7,360	8,639	9,357	0	9,050	0	307	0
U. Alabama, Huntsville	88	6,371	7,550	10,570	9,213	8,210	262	0	741	0
Syracuse U.	89	7,677	7,932	7,255	9,127	0	1,316	0	7,811	0
U. Oregon	90	9,652	8,894	8,467	8,572	0	3,621	484	4,467	0
Jackson State U.	91	6,831	6,563	8,265	8,463	0	7,017	0	1,446	0
Case Western Reserve U.	92	8,417	8,625	4,669	8,213	48	2,735	3,260	2,170	0
U. Massachusetts, Lowell	93	8,612	8,137	7,204	8,207	0	469	0	7,738	0
Rochester Institute of Technology	94	8,237	8,391	7,630	8,077	0	395	0	2,219	5,463
New Jersey Institute of Technology	95	2,851	6,908	6,750	8,044	5,980	553	0	1,511	0
U. Texas M. D. Anderson Cancer Center	96	7,559	5,510	6,607	7,922	0	0	0	7,922	0
U. Wisconsin-Milwaukee	97	10,533	10,217	10,604	7,884	0	1,275	0	6,609	0
U. Texas, Dallas	98	6,495	5,487	6,186	7,812	2,947	2,499	34	1,749	583
Brandeis U.	99	7,892	8,029	7,389	7,777	0	1,819	0	5,958	0
SUNY, U. Buffalo	100	8,251	8,040	8,747	7,714	0	4,716	0	2,998	0

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Naval Postgraduate School	101	8,296	5,649	4,641	7,594	275	104	228	5,302	1,685
U. Texas, Arlington	102	3,936	7,040	7,156	7,459	0	1,432	0	6,027	0
Boston C.	103	5,129	5,339	6,275	7,406	0	5,597	0	1,809	0
Colorado School of Mines	104	9,942	7,302	7,698	7,404	0	2,379	197	4,336	492
U. Kansas	105	9,025	10,290	6,763	7,110	393	4,395	68	2,233	21
U. Connecticut	106	7,207	6,919	6,968	6,696	0	3,005	0	3,691	0
Clemson U.	107	4,732	6,059	6,044	6,692	0	2,985	0	3,703	4
CUNY, City C.	108	6,417	8,425	7,611	6,681	0	4,502	0	2,179	0
U. Kentucky	109	6,156	5,555	4,929	6,607	0	4,073	0	2,534	0
U. Missouri, Columbia	110	6,209	6,005	6,263	6,389	0	4,141	0	2,248	0
U. Georgia	111	5,004	4,681	4,403	6,362	315	5,325	0	722	0
U. New Mexico	112	7,280	7,796	7,889	6,320	984	1,716	0	3,620	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	113	7,525	6,103	5,824	6,303	0	2,471	0	3,832	0
U. Houston	114	7,163	6,153	5,978	6,147	36	2,298	60	3,366	387
SUNY, Binghamton U.	115	5,067	5,842	5,684	6,111	0	4,990	0	1,121	0
Auburn U., Auburn	116	3,695	3,886	4,937	6,107	0	1,833	15	4,225	34
Xavier U. Louisiana	117	6,996	7,956	6,697	5,797	0	5,796	0	0	1
U. Montana, Missoula	118	3,317	2,534	5,513	5,718	0	2,351	0	117	3,250
U. South Florida, Tampa	119	4,974	6,535	6,653	5,648	0	2,686	0	2,225	737
George Washington U.	120	4,295	4,571	4,819	5,610	0	2,256	0	3,354	0
Old Dominion U.	121	5,050	5,873	5,402	5,260	0	1,654	0	3,606	0
Georgetown U.	122	3,374	4,416	4,582	5,133	0	2,194	0	2,939	0
U. Alabama, Birmingham	123	3,710	4,105	6,064	4,929	0	1,880	909	2,140	0
California State U., Los Angeles	124	1,395	3,802	4,506	4,917	0	4,197	0	720	0
U. Toledo	125	3,724	3,446	4,629	4,915	478	1,713	0	2,724	0
Oregon State U.	126	3,455	2,929	3,615	4,888	4	3,214	480	1,112	78
Brigham Young U., Provo	127	3,370	3,806	4,365	4,833	0	2,617	0	2,216	0
U. Nevada, Reno	128	4,057	4,331	5,225	4,815	488	2,004	0	2,118	205
U. Alabama, Tuscaloosa	129	4,400	4,398	5,116	4,785	63	2,435	0	2,287	0
George Mason U.	130	3,645	3,329	4,515	4,738	3,192	79	990	311	166
U. Cincinnati	131	5,419	5,134	4,842	4,724	0	2,241	0	2,483	0
U. Miami	132	5,654	5,159	4,644	4,645	0	604	0	4,041	0
Howard U.	133	1,776	3,400	3,519	4,548	0	3,989	0	559	0
U. Nevada, Las Vegas	134	6,101	6,856	6,515	4,521	209	2,991	0	1,321	0

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Air Force Institute of Technology	135	3,804	3,505	4,241	4,457	0	0	0	4,457	0
Texas Tech U.	136	2,408	2,726	3,838	4,426	0	2,760	10	1,656	0
U. Texas, El Paso	137	4,390	4,782	4,757	4,384	0	3,736	0	648	0
U. Arkansas, Fayetteville	138	3,106	3,749	4,009	4,313	0	2,548	0	1,765	0
Rensselaer Polytechnic Institute	139	5,592	5,661	5,774	4,304	0	2,391	0	1,913	0
U. California, Merced	139	2,797	4,689	3,952	4,304	0	2,250	667	1,387	0
Northern Illinois U.	141	2,864	3,317	3,785	4,280	0	969	0	3,311	0
William & Mary	142	5,055	4,698	4,192	4,249	0	497	0	3,752	0
U. Texas, San Antonio	143	3,542	5,174	3,733	4,195	0	1,732	0	2,463	0
Utah State U.	144	2,490	2,698	3,175	4,133	0	1,710	0	1,586	837
California State U., Long Beach	145	2,154	3,254	3,830	4,062	183	3,327	530	22	0
Hampton U.	146	4,901	4,615	4,129	4,044	0	0	0	4,044	0
U. Akron	147	2,598	3,480	3,213	3,992	0	3,992	0	0	0
U. Puerto Rico, Rio Piedras	148	6,680	4,907	2,714	3,804	0	2,217	0	1,587	0
Mississippi State U.	149	3,167	3,300	4,459	3,630	0	1,206	0	2,424	0
North Dakota State U.	150	4,957	4,376	3,369	3,546	0	1,889	1,369	288	0
SUNY, U. Albany	151	1,677	1,588	2,983	3,545	0	3,266	0	279	0
Tulane U.	152	3,506	4,373	3,449	3,533	0	1,939	0	1,594	0
San Diego State U.	153	1,713	2,055	3,166	3,377	215	2,655	0	507	0
Florida A&M U.	154	2,300	3,244	5,882	3,358	0	21	0	3,337	0
Illinois Institute of Technology	155	3,684	3,642	3,492	3,253	0	281	333	2,453	186
Oklahoma State U., Stillwater	156	2,637	2,416	2,238	3,135	0	1,971	0	1,164	0
U. South Carolina, Columbia	157	8,143	7,476	3,554	3,103	0	1	0	1,774	1,328
California State U., Northridge	158	3,261	3,219	2,579	3,063	335	315	0	2,312	101
Kent State U.	159	3,662	3,489	3,249	3,062	45	591	718	1,355	353
CUNY, Hunter C.	160	2,600	2,071	3,122	3,024	28	1,810	0	1,186	0
U. North Carolina, Greensboro	161	2,272	2,995	2,895	3,019	0	2,301	0	125	593
U. North Carolina, Charlotte	162	3,744	2,532	2,320	2,977	0	1,207	0	1,770	0
U.S. Air Force Academy	163	3,974	2,210	295	2,933	0	330	0	2,603	0
American U.	164	1,007	1,578	2,506	2,922	0	190	0	2,732	0
U. Denver	165	1,978	3,066	2,985	2,869	118	2,110	0	641	0
North Carolina Central U.	166	3,351	4,012	3,447	2,729	0	75	0	1,881	773
Northern Arizona U.	167	980	1,716	2,490	2,688	2,073	271	0	212	132
U. Maine	168	1,141	914	1,980	2,654	0	810	0	1,844	0

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U.S. Naval Academy	168	1,792	2,476	1,948	2,654	0	1,284	0	1,370	0
Rockefeller U.	170	4,027	4,151	3,856	2,637	0	2,287	0	350	0
Ohio U.	171	2,766	2,847	2,570	2,605	0	219	0	2,386	0
U. North Texas, Denton	172	2,184	2,644	2,431	2,588	0	1,143	0	1,445	0
Southern Methodist U.	173	2,837	2,884	2,790	2,499	0	798	0	1,701	0
Virginia Commonwealth U.	174	2,533	2,307	2,364	2,425	0	1,442	0	983	0
Boise State U.	175	492	468	2,909	2,420	422	619	1,165	214	0
Portland State U.	176	3,065	2,833	2,189	2,356	0	2,222	49	85	0
Central Michigan U.	177	1,213	1,248	1,702	2,318	82	68	0	2,168	0
U. Rhode Island	178	3,764	2,677	2,504	2,269	0	1,682	0	85	502
Texas State U.	179	2,338	2,820	2,675	2,235	0	870	0	1,365	0
U. South Dakota	180	1,263	1,122	1,004	2,205	0	756	0	1,313	136
Idaho State U.	181	1,984	2,303	2,776	2,191	0	505	0	1,686	0
Lehigh U.	182	3,094	2,924	3,233	2,157	0	1,312	0	845	0
CUNY, Advanced Science Research Center	183	ne	830	525	2,115	0	430	433	1,252	0
Tufts U.	184	8,128	6,229	43,589	2,102	1,069	645	42	216	130
Missouri U. of Science and Technology	185	2,593	2,154	2,963	2,036	0	1,416	0	620	0
Baylor U.	186	1,477	1,960	2,006	2,033	35	785	0	1,213	0
Worcester Polytechnic Institute	187	1,610	2,049	2,140	2,006	0	1,481	0	525	0
Stevens Institute of Technology	188	1,078	1,304	1,348	1,960	0	0	0	1,960	0
New Mexico Institute of Mining and Technology	189	3,325	1,283	1,442	1,928	0	450	0	1,478	0
U. Vermont	190	790	963	1,683	1,925	0	1,279	0	646	0
U. Missouri, Saint Louis	191	762	1,391	1,615	1,896	141	1,741	0	14	0
U. Texas Rio Grande Valley	192	1,955	2,055	1,847	1,865	952	602	0	283	28
Haverford C.	193	624	426	1,047	1,862	90	201	1,534	37	0
U. New Hampshire	194	1,915	1,630	2,857	1,859	0	740	0	1,119	0
U. Louisville	195	1,081	1,011	1,034	1,827	83	1,116	480	105	43
Wesleyan U.	196	1,647	1,844	1,960	1,784	352	395	0	1,037	0
San Jose State U.	197	1,094	1,242	1,415	1,765	0	1,310	0	455	0
U. Wyoming	198	3,431	2,840	2,560	1,750	0	915	0	835	0
U. Massachusetts, Boston	199	1,262	1,141	1,237	1,745	0	1,193	0	552	0
Wake Forest U.	200	2,527	2,009	1,667	1,741	0	397	0	1,344	0
Morehouse C.	201	2,150	2,136	2,740	1,704	0	116	0	213	1,375
Oakland U.	202	1,762	1,644	1,510	1,679	0	720	0	933	26

TABLE 48
Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2019 physical sciences: FYs 2016–19 and by subfield for FY 2019
(Dollars in thousands)

Institution	Rank	2016	2017	2018	2019					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Embry-Riddle Aeronautical U.	203	710	776	1,320	1,623	0	0	0	490	1,133
Delaware State U.	204	5,055	2,868	2,587	1,615	0	457	0	1,158	0
Drexel U.	205	1,277	1,520	2,362	1,611	0	308	0	1,303	0
South Dakota School of Mines and Technology	206	1,884	1,363	1,542	1,583	0	485	0	1,098	0
North Carolina Agricultural and Technical State U.	207	667	1,036	1,317	1,517	0	306	0	1,211	0
CUNY, Lehman C.	208	1,889	1,907	2,181	1,495	0	1,495	0	0	0
Rutgers, State U. New Jersey, Newark	209	1,523	1,489	1,674	1,444	0	1,412	0	32	0
U. Missouri, Kansas City	210	1,175	1,327	1,340	1,400	201	182	0	1,017	0
Wright State U.	211	1,688	1,921	1,898	1,362	0	183	0	1,179	0
CUNY, C. Staten Island	212	858	546	1,073	1,310	0	651	0	659	0
Marquette U.	213	1,317	1,244	1,486	1,305	0	1,222	0	83	0
U. Maryland, Eastern Shore	214	0	0	1,305	1,278	0	0	0	0	1,278
Florida Institute of Technology	215	2,219	1,962	1,362	1,268	660	180	0	428	0
South Dakota State U.	216	622	988	1,153	1,266	0	1,213	0	53	0
Florida Atlantic U.	217	1,175	2,039	1,494	1,253	0	968	0	285	0
U. Idaho	218	1,798	1,965	1,153	1,249	560	501	0	188	0
Bowling Green State U.	219	2,166	1,477	1,222	1,238	0	1,005	0	233	0
San Francisco State U.	220	1,222	1,817	1,250	1,223	3	171	91	958	0
Indiana U.-Purdue U., Indianapolis	221	947	981	1,240	1,186	0	816	0	370	0
U. Dayton	222	1,507	1,582	1,304	1,175	0	0	650	525	0
California State U., San Bernardino	223	1,107	992	1,260	1,153	35	0	1,118	0	0
CUNY, Queens C.	224	1,300	1,044	1,094	1,141	0	846	0	295	0
Villanova U.	224	756	830	951	1,141	630	272	0	239	0
Clark Atlanta U.	226	1,476	1,425	960	1,135	0	680	0	455	0
Amherst C.	227	423	629	716	1,124	0	21	0	1,103	0
California Polytechnic State U., San Luis Obispo	227	600	737	824	1,124	0	198	0	926	0
CUNY, Brooklyn C.	229	1,659	1,601	1,077	1,123	0	1,094	0	29	0
Wellesley C.	230	1,826	868	1,194	1,109	613	367	0	129	0
U. Colorado Denver and Anschutz Medical Campus	231	639	842	767	1,107	0	989	0	118	0
Texas A&M U.-Corpus Christi	232	209	311	198	1,062	0	414	0	19	629
U. New Orleans	233	1,465	1,157	1,124	1,052	0	447	0	605	0
Tennessee Technological U.	234	1,116	856	1,092	1,042	0	498	0	544	0
U. Memphis	235	961	673	895	1,039	0	809	0	230	0
Southern Illinois U., Carbondale	236	1,293	1,878	1,707	1,020	0	592	0	269	159

TABLE 48
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					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Northern Iowa	237	215	473	498	1,016	0	1,002	0	14	0
Western Kentucky U.	238	890	787	911	1,013	0	664	0	349	0
U. North Dakota	239	5,315	2,031	638	977	0	881	0	96	0
Saint Louis U.	240	510	566	919	944	0	877	0	67	0
South Carolina State U.	241	422 i	1,552	1,621 i	930	168	0	0	175	587
Barnard C.	242	1,043	680	516	928	367	561	0	0	0
U. San Diego	242	539	514	575	928	0	575	0	353	0
Loyola U., Chicago	244	451	514	726	913	0	913	0	0	0
California State U., San Marcos	245	34	203	1,106	901	0	118	0	225	558
California State U., Fullerton	246	800	904	1,133	897	575	7	0	315	0
Mount Holyoke C.	247	1,204	1,276	1,164	894	711	183	0	0	0
Rowan U.	248	207	296	483	887	0	422	0	465	0
Creighton U.	249	1,184 i	887 i	609 i	878 i	0 i	302 i	0 i	576 i	0 i
CUNY, York C.	250	ne	ne	ne	862	246	437	0	123	56
Wichita State U.	251	361	373	434	851	0	656	0	195	0
Tougaloo C.	252	0	80	848	849	0	849	0	0	0
Chicago State U.	253	0	ne	865	842	0	842	0	0	0
U. Puerto Rico, Mayaguez	254	1,954	1,532	1,136	832	0	545	0	287	0
Chapman U.	255	855	1,068	699	824	0	334	0	0	490
Hope C.	255	751	680	607	824	0	226	0	598	0
California State U., Fresno	257	623	664	797	823	0	482	0	341	0
East Carolina U.	258	309	201	633	821	0	688	0	133	0
Western Washington U.	259	560	581	734	820	235	544	0	0	41
Norfolk State U.	260	1,366	775	800	819	0	508	0	311	0
Arkansas State U., Jonesboro	261	768	902	440	787	0	740	0	47	0
C. Charleston	261	804	1,027	640	787	251	154	333	49	0
Michigan Technological U.	263	1,192	560	701	728	0	288	0	440	0
Duquesne U.	264	821	658	776	725	0	669	0	56	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	265	960	944	803	723	0	258	0	465	0
Kennesaw State U.	266	359	403	366	721	0	621	0	100	0
Alabama A&M U.	267	1,580 i	1,289 i	997 i	705 i	0 i	325 i	0 i	380 i	0 i
Illinois State U.	268	439	506	513	690	0	545	0	145	0
California State Polytechnic U., Pomona	269	193	687	1,388	673	656	17	0	0	0

TABLE 48
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(Dollars in thousands)

Institution	Rank	2016	2017	2018	2019					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Texas A&M U.-Commerce	270	440	412	858	667	0	136	0	531	0
SUNY, Geneseo	271	575	620	592	663	0	0	0	663	0
U. Central Oklahoma	272	499	332	606	657	0	140	0	517	0
James Madison U.	273	483	429	320	653	46	481	0	126	0
Clarkson U.	274	717	489	539	652	0	504	0	148	0
Southern U. and A&M C., Baton Rouge	275	915	1,732	1,132	646	0	73	0	573	0
California State U., Dominguez Hills	276	518	523	626	635	0	603	0	32	0
U. Arkansas, Little Rock	277	759	149	603	616	0	614	2	0	0
Spelman C.	278	170	184	620	595	0	595	0	0	0
Ball State U.	279	266	262	361	578	0	576	0	2	0
U. Central Arkansas	280	309	527	521	576	0	440	0	136	0
Towson U.	281	454	99	710	564	30	110	0	401	23
Furman U.	282	618	746	527	558	0	556	0	2	0
Salish Kootenai C.	283	561	665	869	553	0	553	0	0	0
Swarthmore C.	284	383	530	642	550	129	222	0	199	0
Christopher Newport U.	285	357	402	353	534	0	64	0	470	0
Union C., Schenectady	286	123	117	210	522	0	352	0	170	0
U. North Carolina, Wilmington	287	1,045	483	406	512	0	374	87	51	0
Claflin U.	288	656	484	600	508	0	501	0	7	0
U. Wisconsin-Eau Claire	289	373	601	436	504	16	388	100	0	0
U. Minnesota, Duluth	290	473	444	442	498	0	302	0	196	0
U. of the Sciences Philadelphia	290	112	303	268	498	0	497	0	1	0
Trinity U.	292	349	237	708	495	0	452	0	43	0
U. Puerto Rico, Humacao	293	ne	ne	647	494	0	104	0	390	0
Cleveland State U.	294	198	116	283	488	0	211	0	277	0
Grambling State U.	295	663	542	518	476	0	424	0	52	0
U. Houston-Clear Lake	295	371	223	442	476	0	0	0	0	476
Bryn Mawr C.	297	328	345	464	471	0	136	0	335	0
Marshall U.	298	312	234	260	462	0	462	0	0	0
Northern Kentucky U.	299	366	287	284	448	16	258	0	174	0
Fairfield U.	300	47	292	95	442	0	297	0	81	64
Augsburg U.	301	608	554	411	436	0	160	0	276	0
Oberlin C.	302	454	730	486	422	0	167	0	255	0
U. of the Pacific	302	354	164	247	422	112	257	0	53	0

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					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Sam Houston State U.	304	246	285	262	420	0	351	0	69	0
U. North Carolina, Asheville	305	809	483	273	418	0	0	0	8	410
Middlebury C.	306	407	518	376	410	93	213	0	104	0
Prairie View A&M U.	307	424	751	411	407	0	182	0	225	0
Louisiana Tech U.	308	862	661	696	403	0	86	0	317	0
St. Edward's U.	309	750	1,310	445	400	0	250	0	150	0
Santa Clara U.	310	397	428	736	394	0	313	0	81	0
Southern Illinois U., Edwardsville	311	168	293	516	390	0	306	0	84	0
Smith C.	312	180	165	334	389	78	151	0	160	0
Calvin U.	313	291	510	474	388	0	265	0	123	0
Clark U.	314	239	315	319	384	0	204	0	180	0
Connecticut C.	314	424	308	249	384	0	384	0	0	0
U. West Florida	316	188	353	380	373	0	0	0	0	373
U. of the Incarnate Word	317	ne	ne	568	372	0	178	0	0	194
Black Hills State U.	318	502	444	395	371	0	22	0	331	18
Benedict C.	319	372	314	518	364	0	364	0	0	0
U. South Alabama	320	300	270	239	355	0	355	0	0	0
U. Arkansas, Pine Bluff	321	387	250	315	352	0	352	0	0	0
U. North Florida	322	190	168	240	348	0	248	0	100	0
Whitman C.	323	ne	ne	ne	347	6	301	0	40	0
Texas Christian U.	324	578	497	260	341	202	106	0	0	33
Bates C.	325	206	393	433	340	33	166	0	141	0
Missouri State U.	326	419	149	150	336	51	7	0	278	0
U. Louisiana, Lafayette	326	24	109	273	336	0	160	0	22	154
Salisbury U.	328	101	64	42	335	0	335	0	0	0
Lafayette C.	329	105	243	298	333	0	151	0	182	0
CUNY, Baruch C.	330	269	228	241	330	0	0	0	330	0
CUNY, Graduate Center	330	0	0	0	330	0	0	0	330	0
Murray State U.	332	21	41	157	328	0	328	0	0	0
Macalester C.	333	244	335	267	322	0	272	0	50	0
Winston-Salem State U.	334	474	309	255	320	0	193	0	0	127
CUNY, New York City C. of Technology	335	ne	ne	28	315	0	1	0	314	0
California State U., Bakersfield	336	0	0	0	313	0	0	0	0	313
CUNY, Medgar Evers C.	337	ne	281	324	308	0	301	0	0	7

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					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Augustana U.	338	ne	475	375	301	0	153	0	148	0
U. New Haven	339	0	0	26	300	0	1	299	0	0
Colby C.	340	363	318	427	297	0	260	0	37	0
Saginaw Valley State U.	341	2	21	30	294	0	294	0	0	0
Kenyon C.	342	ne	ne	263	292	0	0	0	292	0
Pacific U.	343	139	731	220	283	0	114	0	169	0
Franklin and Marshall C.	344	392	420	737	279	38	187	0	54	0
Colgate U.	345	474	180	389	278	19	225	0	34	0
SUNY, Oswego	346	ne	407	351	266	0	266	0	0	0
Williams C.	347	613	356	382	263	74	0	0	189	0
SUNY, C. Plattsburgh	348	265	129	333	259	0	0	0	259	0
Winthrop U.	349	137	52	199	256	0	100	156	0	0
C. Wooster	350	ne	185	436	251	0	151	0	100	0
Pomona C.	351	301	198	277	250	118	132	0	0	0
East Tennessee State U.	352	179	177	281	249	98	11	0	140	0
U. Nebraska, Kearney	353	104	158	158	248	94	146	0	8	0
Bucknell U.	354	117 i	112 i	108	247	0	80	0	167	0
Bowie State U.	355	21	111	293	246	0	112	0	0	134
Grand Valley State U.	355	587	419	597	246	0	219	0	27	0
Southern Connecticut State U.	355	841	534	509	246	193	0	0	53	0
Bradley U.	358	526	36	45	243	0	243	0	0	0
Davidson C.	359	0	345	215	232	0	225	0	7	0
CUNY, John Jay C. of Criminal Justice	360	112	370	249	222	0	158	0	0	64
St. John's U., New York	361	179	118	142	221	0	221	0	0	0
U. Ana G. Mendez, Cupey	362	3,179	3,541	2,627	220	190	30	0	0	0
U. Massachusetts, Dartmouth	363	218	205	197	216	0	152	0	64	0
U. Washington, Bothell	364	0	0	0	215	0	0	0	215	0
Appalachian State U.	365	193	472	303	211	60	78	0	73	0
Carleton C.	366	17	223	357	210	25	114	0	2	69
Austin Peay State U.	367	122	190	271	207	0	0	136	36	35
Gettysburg C.	368	ne	42	333	206	0	0	0	25	181
U. Tulsa	369	569	656	364	202	0	21	0	181	0
Fayetteville State U.	370	616	616	300	200	0	0	0	200	0
California State U., Sacramento	371	44	168	170	199	0	102	0	97	0

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					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Willamette U.	372	79	67	245	194	0	149	0	45	0
Canisius C.	373	ne	77	163	191	0	29	0	7	155
U. Richmond	374	718	714	349	187	0	88	0	99	0
Hobart and William Smith Colleges	375	ne	205	ne	186	0	17	0	120	49
Eastern Michigan U.	376	137	72	155	185	33	0	128	24	0
Andrews U.	377	ne	ne	ne	183	183	0	0	0	0
Central Washington U.	378	222	231	189	182	0	12	0	170	0
Albion C.	379	ne	210	114	180	13	0	0	50	117
Texas Southern U.	380	254	149	139	179	0	114	0	65	0
Bowdoin C.	381	176	225	285	177	0	71	0	89	17
Occidental C.	381	153	149	274	177	0	151	0	23	3
Western Carolina U.	383	65	93	144	172	0	172	0	0	0
Long Island U.	384	83	77	60	171	0	0	0	171	0
Vassar C.	385	316	234	773	168	21	38	0	109	0
Miami U.	386	212	668	607	167	0	14	0	153	0
California State U., Chico	387	0	4	86	166	0	16	0	150	0
Georgia Southern U.	388	270	141	173	164	12	118	0	34	0
Tuskegee U.	389	383	383	383	163	0	131	0	32	0
Harvey Mudd C.	390	372	223	604	160	0	88	0	72	0
Indiana State U.	391	301	148	168	155	0	62	0	93	0
Lewis and Clark C.	392	171	173	111	153	0	45	0	108	0
Eastern Washington U.	393	148	106	212	152	0	118	0	34	0
Albany State U.	394	358	78	137	150	0	150	0	0	0
Skidmore C.	394	77	74	128	150	0	115	0	35	0
West Virginia State U.	394	119	204	353	150	0	100	0	50	0
Middle Tennessee State U.	397	305	621	271	142	18	124	0	0	0
Claremont McKenna C.	398	0	50	39	140	0	140	0	0	0
U. Puerto Rico, Cayey	398	29	213	45	140	0	83	0	57	0
Roger Williams U.	400	560	451	187	139	0	0	0	0	139
Loyola Marymount U.	401	0	23	131	132	0	132	0	0	0
U. Nebraska, Omaha	402	288	248	194	130	0	0	0	130	0
Texas A&M U.-Kingsville	403	58	68	28	129	0	83	0	46	0
Indiana U. Pennsylvania	404	45	305	133	128	0	46	0	82	0
U. Hawaii, Hilo	404	312	366	466	128	0	12	0	103	13

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					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Dillard U.	406	353	703	352	122	0	0	0	122	0
Montclair State U.	407	116	167	242	121	15	106	0	0	0
Rhode Island C.	408	47	118	100	120	0	0	0	84	36
Drake U.	409	212	181	113	118	0	9	0	109	0
Florida Gulf Coast U.	410	276	0	0	116	116	0	0	0	0
Kettering U.	410	128	494	410	116	0	89	0	27	0
U. Wisconsin-La Crosse	412	219	148	210	113	0	69	0	44	0
DePaul U.	413	99	97	111	112	0	1	0	111	0
Tennessee State U.	413	454	453	318	112	43	1	0	68	0
Purdue U., Northwest	415	na	212	284	111	0	111	0	0	0
Fordham U.	416	0	113	0	107	0	107	0	0	0
U. Michigan, Dearborn	416	104	166	64	107	0	0	0	0	107
Youngstown State U.	418	290	375	59	105	13	87	0	5	0
Fort Valley State U.	419	108	102	88	104	0	104	0	0	0
U. Nebraska, central administration	419	ne	ne	85	104	0	0	0	102	2
U. Wisconsin-Oshkosh	421	ne	95 i	99 i	103 i	16 i	40 i	0 i	47 i	0 i
Lamar U.	422	100	78	23	101	0	73	0	0	28
Purdue U., Fort Wayne	422	119	43	57	101	0	101	0	0	0
Saint Michael's C.	422	64	101	127	101	41	0	0	60	0
Minnesota State U., Mankato	425	121	38	74	94	0	18	0	0	76
Trinity C., Hartford	426	38	166	129	92	0	92	0	0	0
U. Wisconsin-Stevens Point	427	80 i	83 i	83 i	88 i	13 i	34 i	0 i	41 i	0 i
Northeastern Illinois U.	428	ne	75	88	84	0	0	0	84	0
West Chester U. Pennsylvania	428	101	130	36	84	22	62	0	0	0
Reed C.	430	105	0	25	81	0	49	0	32	0
U. Maryland Center for Environmental Science	431	0	16	228	80	0	25	0	55	0
Central Connecticut State U.	432	0	16	ne	78	0	78	0	0	0
West Texas A&M U.	433	48	11	2	75	4	71	0	0	0
Wheaton C., Wheaton	434	ne	10	23	74	0	0	0	74	0
Allegheny C.	435	264	248	331	72	0	72	0	0	0
Lincoln U., Jefferson City	436	47	71	17	71	0	64	0	7	0
Mercyhurst U.	436	0	35 i	ne	71 i	0 i	24 i	0 i	47 i	0 i
Providence C.	436	74	100	94	71	0	71	0	0	0
Milwaukee School of Engineering	439	63	86	49	69	0	0	0	69	0

TABLE 48
Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2019 physical sciences: FYs 2016–19 and by subfield for FY 2019
(Dollars in thousands)

Institution	Rank	2016	2017	2018	2019					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Colorado Colorado Springs	440	110	78	105	68	0	0	0	54	14
U. Louisiana, Monroe	441	12	0	26	67	0	67	0	0	0
Johnson C. Smith U.	442	69	0	228	66	0	66	0	0	0
U. Wisconsin-Green Bay	442	85 i	62 i	43 i	66 i	0 i	30 i	0 i	36 i	0 i
California State U., Monterey Bay	444	0	0	0	65	0	65	0	0	0
Central State U.	445	27	37	83	63	0	63	0	0	0
Savannah State U.	445	0	140	59	63	0	63	0	0	0
U. of St. Thomas (MN)	447	104	89	87	61	0	42	0	19	0
U. South Florida, Saint Petersburg	447	0	46	0	61	0	61	0	0	0
Doane U.	449	ne	ne	166	60	0	60	0	0	0
St. Olaf C.	449	145	105	106	60	60	0	0	0	0
Biola U.	451	52 i	53 i	55 i	58 i	0 i	20 i	0 i	38 i	0 i
Manhattan C.	452	ne	ne	ne	55	0	55	0	0	0
New Jersey City U.	452	ne	1,185	2,105	55	0	35	0	10	10
California State U., Channel Islands	454	26	0	23	54	0	54	0	0	0
Montana Technological U.	454	244	217	77	54	0	54	0	0	0
Fort Hays State U.	456	ne	ne	ne	52	0	32	0	20	0
Keene State C.	456	ne	0	ne	52	0	52	0	0	0
SUNY, C. of Environmental Science and Forestry	456	157	175	32	52	8	42	0	0	2
U. North Georgia	456	ne	45	71	52	0	52	0	0	0
Seattle U.	460	172	105	137	50	0	0	0	50	0
Humboldt State U.	461	44	52	69	48	0	0	0	48	0
U. of Mary Washington	461	ne	ne	4	48	0	32	0	16	0
Pace U.	463	0	0	0	47	0	0	0	47	0
Grinnell C.	464	100	121	127	44	22	22	0	0	0
Dickinson C.	465	0	78	ne	39	25	0	0	14	0
Hofstra U.	466	0	38	24	38	38	0	0	0	0
California Lutheran U.	467	ne	ne	ne	36	0	36	0	0	0
U. Wisconsin-Platteville	467	ne	40 i	ne	36 i	0 i	36 i	0 i	0 i	0 i
Western Illinois U.	467	ne	3	0	36	0	17	0	19	0
Southeastern Louisiana U.	470	104	114	108	35	0	28	0	7	0
U.S. Military Academy	470	18	448	120	35	0	0	0	35	0
U. Baltimore	472	0	0	36	34	0	0	0	0	34
Pennsylvania State U., Behrend	473	52	54	30	33	0	17	0	16	0

TABLE 48
Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2019 physical sciences: FYs 2016–19 and by subfield for FY 2019
(Dollars in thousands)

Institution	Rank	2016	2017	2018	2019					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Morgan State U.	474	916	285	116	30	0	0	0	30	0
Pittsburg State U.	474	33	33	21	30	0	28	0	2	0
Langston U.	476	0	36	33	29	0	0	0	0	29
U. Ana G. Mendez, Gurabo	476	0	0	144	29	0	29	0	0	0
Azusa Pacific U.	478	46	40	44	28	0	0	0	28	0
Gallaudet U.	479	335	66	156	22	0	11	11	0	0
C. of Saint Benedict	480	3	16	22	21	0	21	0	0	0
U. Northern Colorado	481	38	26	26	20	20	0	0	0	0
SUNY, Buffalo State	482	45	43	23	17	0	0	0	17	0
U. Alaska, Anchorage	483	2	22	17	16	1	15	0	0	0
Colorado C.	484	100	266	60	14	0	0	0	14	0
Alfred U.	485	42	9	11	13	0	0	0	0	13
Rider U.	485	0	0	13	13	0	13	0	0	0
Hamilton C.	487	51	5	3	12	0	0	0	12	0
U. Illinois, Springfield	487	73	0	0	12	0	12	0	0	0
U. Southern Maine	489	23	19	21	11	0	11	0	0	0
SUNY, C. Brockport	490	70	0	0	6	0	0	0	6	0
Pennsylvania State U., Harrisburg	491	0	5	27	5	0	0	5	0	0
St. Cloud State U.	492	64	13	1	2	0	0	0	2	0
Stockton U.	492	9	ne	1	2	0	2	0	0	0
U. Michigan, Flint	494	ne	82	19	1	0	0	0	1	0
All other surveyed institutions	-	83,405	88,711	82,214	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 \$277,092 thousand in federally financed R&D expenditures in physical sciences in FY 2019.

^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.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2019 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.