

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
All institutions	-	3,384,673	3,472,447	3,691,358	3,789,237	542,725	1,166,743	156,894	1,736,916	185,959
Johns Hopkins U. ^a	1	177,702	229,887	306,572	372,067	91,890	24,462	3,731	222,997	28,987
California Institute of Technology	2	159,408	155,495	156,658	178,896	47,213	26,664	12,299	92,720	0
U. Colorado Boulder	3	67,778	78,424	99,527	106,414	28,088	6,537	0	64,624	7,165
Massachusetts Institute of Technology	4	102,420	96,347	94,635	105,097	31,303	19,258	2,454	38,758	13,324
Michigan State U.	5	138,056	111,792	95,267	100,092	39	7,154	0	92,899	0
Cornell U.	6	83,621	86,823	95,625	96,374	7,341	21,016	1,529	37,180	29,308
U. Rochester	7	84,330	88,080	106,520	94,572	0	4,136	0	90,436	0
U. California, Berkeley	8	90,916	81,410	86,349	84,023	45,722	17,414	0	17,480	3,407
U. Maryland ^b	9	na	na	82,395	81,584	34,719	6,777	175	29,752	10,161
U. Arizona	10	66,693	68,086	74,823	77,135	62,252	8,089	1,330	5,464	0
Stanford U.	11	70,448	63,318	71,817	68,199	3,331	22,802	6,610	32,816	2,640
Princeton U.	12	44,946	53,677	54,879	60,336	17,917	13,611	0	28,224	584
U. Wisconsin-Madison	13	51,405	51,870	52,807	58,512	2,264	19,249	0	17,822	19,177
U. Texas, Austin	14	48,840	48,196	53,535	56,570	4,486	8,614	24,832	18,638	0
Harvard U.	15	52,122	52,414	53,614	55,363	5,805	19,149	0	29,457	952
Pennsylvania State U., University Park and Hershey Medical Center	16	51,848	53,057	56,943	54,776	10,869	10,176	16,762	16,969	0
U. Washington, Seattle	17	47,257	45,871	49,064	52,913	8,434	21,802	1,365	17,789	3,523
U. Illinois, Urbana-Champaign	18	45,778	47,691	48,539	49,164	7,765	21,367	0	20,032	0
U. California, San Diego	19	46,872	43,134	47,019	49,002	0	16,704	0	32,298	0
Northwestern U.	20	46,458	48,305	49,120	46,669	1,731	22,766	12,098	8,508	1,566
Ohio State U.	21	29,488	31,707	35,564	44,079	3,648	23,166	41	17,224	0
U. Chicago	22	46,097	42,683	43,322	43,904	8,148	20,747	4,416	10,586	7
Florida State U.	23	32,743	38,693	35,376	42,211	704	12,958	2,170	26,260	119
U. California, San Francisco	24	36,290	35,467	38,491	41,413	0	41,413	0	0	0
U. Pennsylvania	25	32,675	36,065	38,518	38,206	29	13,345	10,382	14,450	0
U. California, Los Angeles	26	38,863	36,558	39,856	37,430	0	14,839	0	22,591	0
U. California, Santa Barbara	27	34,300	32,011	38,560	36,695	4,210	6,268	11,873	13,661	683

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U. Michigan, Ann Arbor	28	38,344	36,588	37,944	35,572	3,783	18,164	0	13,625	0
U. Minnesota, Twin Cities	29	28,016	29,565	33,493	32,576	1,162	14,721	0	16,693	0
Columbia U. in the City of New York	30	40,520	27,308	29,085	31,519	6,176	9,611	6,090	9,642	0
SUNY, Stony Brook U.	31	21,025	28,239	32,009	30,902	1,605	9,555	0	19,742	0
U. Notre Dame	32	26,579	26,977	29,077	28,853	0	18,246	0	10,607	0
Yale U.	33	36,023	35,815	33,736	28,840	1,630	10,663	0	16,547	0
U. North Carolina, Chapel Hill	34	21,688	23,430	24,236	27,083	388	15,780	0	8,065	2,850
U. California, Irvine	35	24,639	24,213	27,916	26,725	0	15,738	0	10,987	0
Georgia Institute of Technology	36	22,254	23,459	25,844	22,417	0	15,235	0	7,182	0
Purdue U., West Lafayette	37	19,426	19,253	20,328	21,579	0	12,344	0	9,235	0
Indiana U., Bloomington	38	18,428	19,047	20,230	21,231	383	11,206	0	9,642	0
Texas A&M U., College Station and Health Science Center	39	17,871	18,933	21,954	21,208	898	8,781	1,312	9,751	466
Boston U.	40	18,675	19,197	19,469	20,726	1,553	9,210	0	9,963	0
U. Delaware	41	19,061	19,454	21,923	19,931	886	6,472	8,121	4,452	0
U. Virginia, Charlottesville	42	23,628	17,616	17,967	19,333	2,505	6,608	0	10,220	0
Duke U.	43	14,743	16,332	18,436	19,178	0	8,398	0	10,780	0
U. Hawaii, Manoa	44	16,511	15,075	17,498	19,021	9,306	1,732	0	3,792	4,191
U. Utah	45	20,933	15,844	31,461	19,006	5,919	11,546	0	0	1,541
U. Central Florida	46	21,993	18,490	18,300	18,976	0	1,876	0	17,100	0
U. Iowa	47	18,135	22,483	21,267	18,913	609	3,681	0	14,623	0
New York U.	48	15,340	17,870	19,720	18,606	0	11,679	0	6,927	0
Washington U., Saint Louis	49	16,253	16,350	18,746	18,393	0	8,606	5,181	4,606	0
New Mexico State U.	50	23,577	19,047	18,114	18,373	2,486	3,699	0	1,132	11,056
U. Massachusetts, Amherst	51	13,988	14,703	16,405	18,261	3,241	10,044	0	4,976	0
Iowa State U.	52	11,892	26,683	25,466	17,815	0	8,055	0	9,760	0
U. Pittsburgh, Pittsburgh	53	17,200	17,541	18,857	17,786	717	10,893	0	6,176	0
U. California, Santa Cruz	54	12,626	12,442	15,755	17,723	4,972	7,886	0	4,865	0

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Catholic U. of America	55	15,676	16,408	16,992	17,261	0	523	0	11,952	4,786
U. California, Davis	56	16,172	14,930	17,554	17,230	0	9,896	0	7,160	174
U. Maryland, Baltimore County	57	12,116	11,959	14,774	17,092	13,426	1,233	133	2,300	0
U. Florida	58	14,618	14,100	15,416	16,445	418	6,769	0	9,258	0
Rice U.	59	17,838	15,712	17,279	16,313	1,204	5,909	0	9,200	0
U. Nebraska, Lincoln	60	16,244	17,422	18,047	15,583	0	6,237	0	9,346	0
Emory U.	61	13,504	14,297	15,695	15,380	0	12,627	0	2,729	24
Vanderbilt U. and Vanderbilt U. Medical Center	62	15,765	14,724	14,537	15,195	0	7,056	0	8,139	0
Washington State U.	63	15,632	16,798	18,436	14,813	152	5,986	276	6,837	1,562
U. California, Riverside	64	14,606	13,554	12,908	14,276	0	7,396	0	6,880	0
Virginia Polytechnic Institute and State U.	65	8,276	10,816	14,250	13,854	30	8,991	0	4,788	45
Georgia State U.	66	12,825	11,050	11,524	13,754	1,515	6,834	0	5,143	262
North Carolina State U.	67	13,484	14,391	13,392	13,657	0	6,645	0	7,012	0
U. Southern California	68	10,069	11,958	12,667	13,605	0	7,570	1,174	4,861	0
Louisiana State U., Baton Rouge	69	10,974	12,376	12,967	13,295	0	3,955	0	9,293	47
Northeastern U.	70	10,798	12,632	12,859	13,194	0	4,811	13	8,026	344
Rutgers, State U. New Jersey, New Brunswick	71	19,984	18,582	17,535	12,991	1,392	2,557	2,203	6,212	627
Arizona State U.	72	11,476	11,911	11,735	12,385	0	5,739	0	6,395	251
U. Tennessee, Knoxville ^c	73	15,858	15,120	16,674	12,121	0	3,170	0	8,951	0
Florida International U.	74	7,903	8,984	9,893	11,642	0	7,623	0	3,976	43
U. Oklahoma, Norman and Health Science Center	75	9,400	10,937	12,491	11,446	0	8,392	0	3,054	0
U. Massachusetts, Lowell	76	8,137	7,204	8,207	11,202	0	1,064	0	10,138	0
Carnegie Mellon U.	77	9,259	9,606	10,233	11,165	0	4,095	283	6,254	533

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Brown U.	78	11,988	12,878	14,103	11,133	0	3,416	0	3,718	3,999
Temple U.	79	11,559	11,036	11,881	10,820	0	5,786	0	3,720	1,314
Montana State U., Bozeman	80	9,898	9,333	9,841	10,794	0	5,606	0	5,188	0
U. Illinois, Chicago	81	8,968	8,196	9,941	10,533	0	4,659	0	5,874	0
U. Alaska, Fairbanks	82	9,114	8,928	9,634	9,919	9,792	57	0	0	70
U. Alabama, Huntsville	83	7,550	10,570	9,213	9,595	8,454	218	0	886	37
Colorado School of Mines	84	7,302	7,698	7,404	9,353	0	2,198	697	5,059	1,399
Jackson State U.	85	6,563	8,265	8,463	9,305	0	7,991	0	1,314	0
U. Texas, Dallas	86	5,487	6,186	7,812	9,295	3,233	3,148	0	2,914	0
Wayne State U.	87	7,920	9,469	11,130	9,101	0	6,426	0	2,469	206
U. Oregon	88	8,894	8,467	8,572	9,034	0	3,937	271	4,826	0
West Virginia U.	89	7,553	9,185	9,683	8,805	0	3,040	0	5,765	0
Kansas State U.	90	7,789	9,103	9,827	8,746	0	2,739	0	6,007	0
U. Southern Mississippi	91	7,360	8,639	9,357	8,527	0	8,520	0	7	0
Naval Postgraduate School	92	5,649	4,641	7,594	8,513	517	234	32	6,178	1,552
U. Texas, Arlington	93	7,040	7,156	7,459	8,422	0	1,807	0	6,615	0
New Jersey Institute of Technology	94	6,908	6,750	8,044	8,354	5,873	939	0	1,542	0
U. Connecticut	95	6,919	6,968	6,696	8,124	0	3,515	0	4,609	0
U. Texas M. D. Anderson Cancer Center	96	5,510	6,607	7,922	8,114	0	0	0	8,114	0
U. Mississippi	97	8,502	7,140	9,706	7,993	0	2,225	0	5,768	0
Colorado State U., Fort Collins	98	7,492	9,920	10,106	7,884	0	5,324	71	2,101	388
Rochester Institute of Technology	99	8,391	7,630	8,077	7,787	0	382	0	2,160	5,245
Dartmouth C. and Dartmouth Hitchcock Medical Center	100	6,103	5,824	6,303	7,751	0	3,074	0	4,677	0
U. Missouri, Columbia	101	12,387	12,176	6,686	7,654	0	5,168	0	2,486	0
SUNY, Binghamton U.	102	5,842	5,684	6,111	7,642	0	5,324	0	2,318	0
Georgetown U.	103	4,416	4,582	5,133	7,424	0	2,661	0	4,763	0
Brandeis U.	104	8,029	7,389	7,777	7,218	0	1,679	0	5,523	16

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Case Western Reserve U.	105	8,625	4,669	8,213	7,203	270	2,291	3,032	1,610	0
SUNY, U. Buffalo	106	8,040	8,747	7,714	7,195	0	4,783	0	2,412	0
U. New Mexico	107	7,796	7,889	6,320	7,146	1,015	2,243	35	3,846	7
Syracuse U.	108	7,932	7,255	9,127	7,140	0	1,370	0	5,770	0
Boston C.	109	5,339	6,275	7,406	7,098	0	5,627	0	1,471	0
Xavier U. Louisiana	110	7,956	6,697	5,797	7,077	0	7,077	0	0	0
CUNY, City C.	111	8,425	7,611	6,681	7,007	0	3,803	0	2,626	578
Auburn U., Auburn	112	3,886	4,937	6,107	6,866	0	1,737	51	5,012	66
U. Kentucky	113	5,555	4,929	6,607	6,785	0	3,669	0	3,116	0
U. Kansas	114	10,290	6,763	7,110	6,488	555	3,664	286	1,983	0
U. Houston	115	6,153	5,978	6,147	6,336	118	2,981	194	2,775	268
Clemson U.	116	6,059	6,044	6,692	6,157	0	2,337	0	3,820	0
Tufts U.	117	6,229	43,589	2,102	6,118	0	4,517	0	1,587	14
U. Montana, Missoula	118	2,534	5,513	5,718	5,428	0	1,783	0	77	3,568
George Washington U.	119	4,571	4,819	5,610	5,366	0	1,769	0	3,597	0
U. South Florida, Tampa	120	6,535	6,653	5,648	5,306	0	2,520	0	2,114	672
U. Toledo	121	3,446	4,629	4,915	5,136	532	1,367	0	3,237	0
U. Wisconsin-Milwaukee	122	10,217	10,604	7,884	5,010	0	750	0	4,260	0
Air Force Institute of Technology	123	3,505	4,241	4,457	4,973	0	0	0	4,973	0
U. California, Merced	124	4,689	3,952	4,304	4,891	0	2,041	731	2,119	0
U. Georgia	125	4,681	4,403	6,362	4,815	395	3,628	0	792	0
California State U., Northridge	126	3,219	2,579	3,063	4,750	333	612	0	2,373	1,432
U. Alabama, Tuscaloosa	127	4,398	5,116	4,785	4,720	4	2,148	0	2,568	0
U. Nevada, Reno	128	4,331	5,225	4,815	4,702	477	1,534	60	2,590	41
U. Texas, San Antonio	128	5,174	3,733	4,195	4,702	0	1,685	0	3,017	0
George Mason U.	130	3,329	4,515	4,738	4,656	3,013	125	685	700	133
Old Dominion U.	131	5,873	5,402	5,260	4,601	0	1,091	0	3,510	0
Missouri U. of Science and Technology	132	2,154	2,963	2,082	4,591	0	1,833	0	2,758	0
Oregon State U.	133	2,929	3,615	4,888	4,523	69	2,560	547	1,304	43
U. Arkansas, Fayetteville	134	3,749	4,009	4,313	4,452	0	2,160	0	2,292	0

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William & Mary	135	4,698	4,192	4,249	4,428	0	379	0	4,049	0
Howard U.	136	3,400	3,519	4,548	4,381	0	3,769	0	612	0
U. Texas, El Paso	137	4,782	4,757	4,384	4,257	0	3,233	0	1,024	0
California State U., Los Angeles	138	3,802	4,506	4,917	4,255	0	3,633	0	622	0
U. Akron	139	3,480	3,213	3,992	4,238	0	4,238	0	0	0
Texas Tech U.	140	2,726	3,838	4,426	4,217	0	2,780	222	1,215	0
Rensselaer Polytechnic Institute	141	5,661	5,774	4,304	4,184	0	3,033	0	1,151	0
U. Miami	142	5,159	4,644	4,645	4,172	0	1,011	0	3,161	0
Brigham Young U., Provo	143	3,806	4,365	4,833	4,133	0	2,457	0	1,676	0
U. Nevada, Las Vegas	144	6,856	6,515	4,521	4,073	263	2,828	0	982	0
U. Cincinnati	145	5,134	4,842	4,724	4,041	0	2,005	0	2,036	0
Utah State U.	146	2,698	3,175	4,133	3,982	0	1,636	0	1,661	685
U. Alabama, Birmingham	147	4,105	6,064	4,929	3,934	0	925	795	2,214	0
SUNY, U. Albany	148	1,588	2,983	3,545	3,917	0	3,384	0	533	0
Kent State U.	149	3,489	3,249	3,062	3,715	94	968	692	1,617	344
Northern Illinois U.	150	3,317	3,785	4,280	3,713	0	1,146	0	2,567	0
CUNY, Hunter C.	151	2,071	3,122	3,024	3,552	0	2,579	0	973	0
Ohio U.	152	2,847	2,570	2,605	3,467	0	582	0	2,885	0
U. Puerto Rico, Rio Piedras	153	4,907	2,714	3,804	3,427	0	2,360	0	1,067	0
American U.	154	1,578	2,506	2,922	3,401	0	196	0	3,205	0
U. Denver	155	3,066	2,985	2,869	3,373	143	2,435	0	795	0
Tulane U.	156	4,373	3,449	3,533	3,343	0	1,372	0	1,971	0
U. New Hampshire	157	1,630	2,857	1,859	3,335	0	818	234	2,283	0
Northern Arizona U.	158	1,716	2,490	2,688	3,147	2,190	324	122	352	159
Hampton U.	159	4,615	4,129	4,044	3,142	0	0	0	3,142	0
CUNY, Advanced Science Research Center	160	830	525	2,115	3,018	0	922	0	2,096	0
San Diego State U.	161	2,055	3,166	3,377	2,992	255	2,297	0	440	0
North Carolina Central U.	162	4,012	3,447	2,729	2,888	0	54	0	2,834	0
Rockefeller U.	163	4,151	3,856	2,637	2,882	0	2,299	0	583	0

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U. North Carolina, Charlotte	164	2,532	2,320	2,977	2,878	0	977	0	1,901	0
Oklahoma State U., Stillwater	165	2,416	2,238	3,135	2,870	0	1,513	0	1,357	0
Southern Methodist U.	166	2,884	2,790	2,499	2,855	0	921	0	1,934	0
North Dakota State U.	167	4,376	3,369	3,546	2,853	0	1,349	1,307	197	0
Illinois Institute of Technology	168	3,642	3,492	3,253	2,734	0	296	289	2,125	24
U.S. Air Force Academy	169	2,210	295	2,933	2,714	0	0	0	2,714	0
U. Vermont	170	963	1,683	1,925	2,710	0	1,327	0	1,383	0
Boise State U.	171	468	2,909	2,420	2,678	130	509	1,945	94	0
U. North Carolina, Greensboro	172	2,995	2,895	3,019	2,612	0	1,494	0	5	1,113
U. Rhode Island	173	2,677	2,504	2,269	2,579	0	1,726	0	79	774
California State U., Long Beach	174	3,254	3,830	4,062	2,502	174	2,328	0	0	0
U. North Texas, Denton	175	2,644	2,431	2,588	2,329	0	1,107	0	1,222	0
Mississippi State U.	176	3,300	4,459	3,630	2,267	14	1,111	4	1,138	0
U. South Carolina, Columbia	177	7,476	3,554	3,103	2,264	0	0	0	2,264	0
Haverford C.	178	426	1,047	1,862	2,259	239	187	1,784	49	0
U. Massachusetts, Boston	179	1,141	1,237	1,745	2,239	0	1,706	0	533	0
U. Texas Rio Grande Valley	180	2,055	1,847	1,865	2,215	560	1,061	0	594	0
Virginia Commonwealth U.	181	2,307	2,364	2,425	2,194	0	1,293	0	901	0
Lehigh U.	182	2,924	3,233	2,157	2,166	0	1,298	0	868	0
Baylor U.	183	1,960	2,006	2,033	2,110	29	945	0	1,136	0
Florida Institute of Technology	184	1,962	1,362	1,268	2,109	762	154	0	1,193	0
U.S. Naval Academy	185	2,476	1,948	2,654	2,096	0	903	0	1,193	0
Central Michigan U.	186	1,248	1,702	2,318	2,044	101	0	0	1,943	0
San Jose State U.	187	1,242	1,415	1,765	2,035	0	1,420	0	615	0
CUNY, Lehman C.	188	1,907	2,181	1,495	2,021	0	1,612	0	409	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. South Dakota	189	1,122	1,004	2,205	1,968	0	992	0	976	0
Portland State U.	190	2,833	2,189	2,356	1,937	0	1,467	126	344	0
U. Maine	191	914	1,980	2,654	1,868	0	220	0	1,648	0
Embry-Riddle Aeronautical U.	192	776	1,320	1,623	1,859	0	0	0	902	957
Oakland U.	193	1,644	1,510	1,679	1,852	0	966	0	886	0
Texas State U.	194	2,820	2,675	2,235	1,798	0	976	0	734	88
Delaware State U.	195	2,868	2,587	1,615	1,683	0	476	0	1,207	0
California State U., San Marcos	196	203	1,106	901	1,667	0	61	0	841	765
Villanova U.	197	830	951	1,141	1,658	518	834	0	306	0
Chapman U.	198	1,068	699	824	1,655	0	362	0	71	1,222
Marquette U.	199	1,244	1,486	1,305	1,649	0	1,424	0	225	0
Stevens Institute of Technology	200	1,304	1,348	1,960	1,648	0	0	0	1,648	0
Worcester Polytechnic Institute	201	2,049	2,140	2,006	1,603	0	1,021	0	582	0
Drexel U.	202	1,520	2,362	1,611	1,582	0	305	1,277	0	0
Wesleyan U.	203	1,844	1,960	1,784	1,540	262	487	0	791	0
Morehouse C.	204	2,136	2,740	1,704	1,517	0	177	0	216	1,124
Wake Forest U.	205	2,009	1,667	1,741	1,499	0	396	0	1,103	0
California State U., San Bernardino	206	992	1,260	1,153	1,448	25	3	872	0	548
U. Louisville	207	1,011	1,034	1,827	1,446	127	1,012	192	57	58
Rutgers, State U. New Jersey, Newark	208	1,489	1,674	1,444	1,436	0	1,175	0	261	0
Clark Atlanta U.	209	1,425	960	1,135	1,422	0	760	0	662	0
California State Polytechnic U., Pomona	210	687	1,388	673	1,393	1,196	108	0	89	0
South Dakota School of Mines and Technology	211	1,363	1,542	1,583	1,384	0	691	0	693	0
Indiana U.-Purdue U., Indianapolis	212	981	1,240	1,186	1,374	0	919	0	455	0
Wright State U.	213	1,921	1,898	1,362	1,369	0	221	0	1,014	134
Florida A&M U.	214	3,244	5,882	3,358	1,366	0	39	0	1,327	0
New Mexico Institute of Mining and Technology	215	1,283	1,442	1,928	1,348	0	287	0	1,061	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Bowling Green State U.	216	1,477	1,222	1,238	1,331	0	741	0	590	0
Florida Atlantic U.	217	2,039	1,494	1,253	1,317	0	836	0	481	0
Saint Louis U.	218	566	919	944	1,302	0	1,235	0	67	0
Michigan Technological U.	219	560	701	728	1,282	0	642	0	640	0
San Francisco State U.	220	1,817	1,250	1,223	1,274	3	178	95	998	0
Southern Illinois U., Carbondale	221	1,878	1,707	1,020	1,270	0	934	0	243	93
Texas A&M U.-Corpus Christi	222	311	198	1,062	1,250	0	107	0	0	1,143
U. Maryland, Eastern Shore	223	0	1,305	1,278	1,243	0	7	0	0	1,236
U. Missouri, Saint Louis	224	1,391	1,615	1,896	1,229	98	1,131	0	0	0
Troy U.	225	ne	ne	ne	1,216	0	0	1,216	0	0
U. Wyoming	226	2,840	2,560	1,750	1,206	0	554	0	652	0
California Polytechnic State U., San Luis Obispo	227	737	824	1,124	1,202	0	265	0	937	0
U. Colorado Denver and Anschutz Medical Campus	228	842	767	1,107	1,167	0	819	0	348	0
North Carolina Agricultural and Technical State U.	229	1,036	1,317	1,517	1,163	0	114	0	1,049	0
East Carolina U.	230	201	633	821	1,135	0	830	0	305	0
U. Missouri, Kansas City	231	1,327	1,340	1,407	1,102	103	273	0	726	0
U. Memphis	232	673	895	1,039	1,100	80	667	0	353	0
Western Kentucky U.	233	787	911	1,013	1,072	0	783	0	289	0
South Dakota State U.	234	988	1,153	1,266	1,058	0	1,026	0	32	0
CUNY, Queens C.	235	1,044	1,094	1,141	1,041	0	870	0	171	0
California State U., Fullerton	236	904	1,133	897	1,003	607	0	0	396	0
St. Edward's U.	237	1,310	445	400	994	164	735	0	55	40
Western Washington U.	238	581	734	820	989	246	743	0	0	0
South Carolina State U.	239	1,552	1,621	930	965	174	0	0	182	609

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Puerto Rico, Humacao	240	ne	647	494	922	201	192	529	0	0
Tennessee Technological U.	241	856	1,092	1,042	914	0	426	0	488	0
Wichita State U.	242	373	434	851	912	0	756	0	0	156
U. of the Virgin Islands	243	0	0	0	908	0	159	0	749	0
U. Puerto Rico, Mayaguez	244	1,532	1,136	832	904	0	612	0	292	0
Amherst C.	245	629	716	1,124	892	0	289	0	603	0
Idaho State U.	246	2,303	2,776	2,191	889	0	429	66	394	0
California State U., Fresno	247	664	797	823	868	0	616	0	252	0
U. Dayton	248	1,582	1,304	1,175	849	0	0	421	428	0
CUNY, Brooklyn C.	249	1,601	1,077	812	845	0	727	0	118	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	250	944	803	723	844	0	335	0	509	0
U. San Diego	251	514	575	928	837	0	341	0	496	0
U. Arkansas, Little Rock	252	149	603	616	828	0	828	0	0	0
U.S. Military Academy	253	448	120	35	814	13	419	0	269	113
Creighton U.	254	887	609	878	806	0	277	0	529	0
Barnard C.	255	680	516	928	805	529	276	0	0	0
U. Northern Iowa	256	473	498	1,016	796	0	710	0	86	0
U. New Orleans	257	1,157	1,124	1,052	782	0	231	0	551	0
U. Idaho	258	1,965	1,153	1,249	771	560	51	0	160	0
CUNY, C. Staten Island	259	546	1,073	1,310	770	0	228	0	542	0
Clarkson U.	260	489	539	652	767	0	523	0	244	0
Arkansas State U., Jonesboro	261	902	440	787	753	0	720	0	33	0
Clark U.	262	315	319	384	747	0	161	0	586	0
Texas A&M U.-Commerce	263	412	858	667	746	0	58	0	688	0
U. North Dakota	264	2,031	638	977	739	0	610	0	129	0
Norfolk State U.	265	775	800	819	726	0	76	0	650	0
Cleveland State U.	266	116	283	488	716	0	307	0	409	0
Spelman C.	267	184	620	595	713	0	713	0	0	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. North Carolina, Asheville	268	483	273	418	687	17	146	0	0	524
Duquesne U.	269	658	776	725	664	0	621	0	43	0
Dillard U.	270	703	352	122	662	0	16	0	646	0
U. Central Oklahoma	271	332	606	657	651	0	139	0	512	0
Hope C.	272	680	607	824	648	0	204	0	444	0
SUNY, Geneseo	273	620	592	663	624	0	82	0	542	0
Loyola U., Chicago	274	514	726	913	610	0	610	0	0	0
Georgia Southern U.	275	141	173	164	607	26	534	0	47	0
Trinity U.	276	237	708	495	604	0	543	0	61	0
Southern Connecticut State U.	277	534	509	246	579	579	0	0	0	0
C. Charleston	278	1,027	640	787	573	155	88	258	72	0
Christopher Newport U.	279	402	353	534	571	0	53	0	518	0
Kennesaw State U.	280	403	366	721	558	0	393	0	165	0
New Mexico Highlands U.	281	722	675	ne	541	0	541	0	0	0
James Madison U.	282	429	320	653	531	37	168	0	182	144
Texas Southern U.	283	149	139	179	527	0	527	0	0	0
Northern Kentucky U.	284	287	284	448	514	60	251	0	203	0
Illinois State U.	285	506	513	690	511	0	291	0	220	0
CUNY, York C.	286	ne	ne	862	510	0	329	0	181	0
Winston-Salem State U.	287	309	255	320	496	0	410	0	86	0
Lewis and Clark C.	288	173	111	153	494	0	53	0	441	0
Pomona C.	289	198	277	250	490	278	212	0	0	0
U. Central Arkansas	289	527	521	576	490	0	414	0	76	0
Prairie View A&M U.	291	751	411	407	489	0	392	0	97	0
Alabama A&M U.	292	1,289	997	705	481	0	222	0	259	0
Mount Holyoke C.	293	1,276	1,164	894	471	360	111	0	0	0
Southern U. and A&M C., Baton Rouge	294	1,732	1,132	646	466	0	39	0	427	0
U. Wisconsin-Eau Claire	295	601	436	504	456	14	355	87	0	0
Santa Clara U.	296	428	736	394	445	0	315	0	130	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
California State U., East Bay	297	ne	ne	ne	444	0	164	0	221	59
CUNY, Graduate Center	298	0	0	330	435	0	0	0	435	0
Fort Lewis C.	298	ne	ne	0	435	0	9	426	0	0
U. West Florida	300	353	380	373	423	0	0	0	0	423
U. Arkansas, Pine Bluff	301	250	315	352	418	0	418	0	0	0
Sam Houston State U.	302	285	262	420	414	0	342	0	72	0
Middle Tennessee State U.	303	621	271	142	412	227	185	0	0	0
Grinnell C.	304	121	127	44	410	58	352	0	0	0
Miami U.	305	668	607	167	408	0	292	0	116	0
Rowan U.	306	296	483	887	407	0	213	0	194	0
CUNY, John Jay C. of Criminal Justice	307	370	249	222	405	0	167	0	238	0
Seton Hall U.	308	0	0	0	401	0	401	0	0	0
California State U., Dominguez Hills	309	523	626	635	393	0	390	0	3	0
Morgan State U.	309	285	116	30	393	0	175	0	218	0
Bryn Mawr C.	311	345	464	471	388	0	130	0	55	203
Middlebury C.	311	518	376	410	388	150	238	0	0	0
Texas Christian U.	311	497	260	341	388	0	213	0	175	0
Missouri State U.	314	149	150	336	380	71	20	0	289	0
U. Houston-Clear Lake	315	223	442	476	377	0	0	0	0	377
U. North Florida	316	168	240	348	374	0	286	0	88	0
Calvin U.	317	510	474	388	372	0	254	0	118	0
Providence C.	317	100	94	71	372	20	352	0	0	0
Swarthmore C.	319	530	642	550	366	72	155	0	139	0
U. South Alabama	320	270	239	355	363	0	338	0	25	0
Tougaloo C.	321	80	848	849	361	0	280	0	81	0
Furman U.	322	746	527	558	358	0	357	0	1	0
Grambling State U.	323	542	518	476	356	0	349	0	7	0
Rhode Island C.	323	118	100	120	356	0	0	0	179	177
C. New Jersey	325	212	302	ne	354	0	48	0	306	0
Franklin and Marshall C.	326	420	737	279	350	48	254	0	48	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Grand Valley State U.	326	419	597	246	350	0	341	0	9	0
Florida Gulf Coast U.	328	0	0	116	344	140	204	0	0	0
Occidental C.	329	149	274	177	340	0	140	0	70	130
U. North Carolina, Wilmington	330	483	406	512	336	0	169	0	110	57
Youngstown State U.	331	375	59	105	327	141	166	0	20	0
St. John's U., New York	332	118	142	221	325	0	325	0	0	0
Louisiana Tech U.	333	661	696	403	323	0	71	0	252	0
West Virginia State U.	333	204	353	150	323	0	323	0	0	0
Bates C.	335	393	433	340	318	39	185	0	94	0
U. of the Sciences Philadelphia	335	303	268	498	318	0	293	0	25	0
Ball State U.	337	262	361	578	315	0	315	0	0	0
East Tennessee State U.	337	177	281	249	315	100	27	0	188	0
U. of the Pacific	339	164	247	422	307	108	144	0	55	0
Kettering U.	340	494	410	116	305	0	64	0	241	0
U. Minnesota, Duluth	341	444	442	498	303	0	286	0	17	0
Ithaca C.	342	ne	ne	ne	301	231	70	0	0	0
Johnson C. Smith U.	343	0	228	66	300	0	300	0	0	0
Colby C.	344	318	427	297	299	0	225	0	74	0
Lafayette C.	344	243	298	333	299	0	94	0	205	0
Harvey Mudd C.	346	223	604	160	297	0	201	0	96	0
CUNY, Baruch C.	347	228	241	330	296	0	21	0	275	0
Fordham U.	348	113	0	107	294	0	294	0	0	0
U. Richmond	349	714	349	187	286	0	188	0	98	0
Yeshiva U.	349	0	0	0	286	0	0	0	286	0
U. Massachusetts, Dartmouth	351	205	197	216	275	0	200	0	75	0
Albion C.	352	210	114	180	272	13	92	0	50	117
Bowie State U.	352	111	293	246	272	0	175	0	0	97
Indiana U. Pennsylvania	354	305	133	128	268	0	93	0	175	0
Smith C.	355	165	334	389	264	2	167	0	95	0
Montclair State U.	356	167	242	121	263	39	224	0	0	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Oberlin C.	357	730	486	422	262	0	71	0	191	0
Fayetteville State U.	358	616	300	200	260	0	212	0	48	0
Claflin U.	359	484	600	508	258	0	208	0	50	0
U. Wisconsin-River Falls	359	435	345	ne	258	0	84	0	174	0
Central Washington U.	361	231	189	182	255	0	152	0	103	0
Williams C.	362	356	382	263	253	71	0	0	182	0
Wellesley C.	363	868	1,194	1,109	251	0	251	0	0	0
Skidmore C.	364	74	128	150	250	0	209	0	41	0
Carleton C.	365	223	357	210	248	22	142	0	84	0
Colgate U.	365	180	389	278	248	3	226	0	19	0
Whitman C.	367	ne	ne	347	241	0	164	0	77	0
Bucknell U.	368	112	108	247	237	0	77	0	160	0
Southern Illinois U., Edwardsville	369	293	516	390	231	0	231	0	0	0
Winthrop U.	369	52	199	256	231	0	64	167	0	0
Salish Kootenai C.	371	665	869	553	222	0	222	0	0	0
Union C., Schenectady	371	117	210	522	222	120	21	0	81	0
U. Hawaii, Hilo	373	366	466	128	214	0	178	0	36	0
Fisk U.	374	2,725	197	0	212	0	0	0	200	12
U. Louisiana, Lafayette	375	109	273	336	208	0	158	6	44	0
DePaul U.	376	97	111	112	207	0	2	0	205	0
U. Wisconsin-La Crosse	377	148	210	113	205	0	54	0	151	0
CUNY, New York City C. of Technology	378	ne	28	315	200	0	0	0	200	0
California State U., Sacramento	379	168	170	199	196	0	44	0	152	0
Kenyon C.	380	ne	263	292	194	0	0	0	194	0
Andrews U.	381	ne	ne	183	191	191	0	0	0	0
Towson U.	382	99	710	564	187	17	120	0	50	0
U. Puerto Rico, Cayey	383	213	45	140	185	0	137	0	48	0
Bowdoin C.	384	225	285	177	184	0	43	0	125	16
SUNY, Oswego	385	407	351	266	182	0	182	0	0	0
CUNY, Medgar Evers C.	386	281	324	308	179	50	129	0	0	0
Southeastern Louisiana U.	386	114	108	35	179	0	135	0	44	0
U. of the Incarnate Word	388	ne	568	372	176	0	176	0	0	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Maryland Center for Environmental Science	389	16	228	80	174	0	102	0	72	0
U. Puget Sound	389	118	ne	ne	174	0	124	0	50	0
Appalachian State U.	391	472	303	211	172	0	74	0	98	0
Framingham State U.	392	0	17	ne	169	0	169	0	0	0
Purdue U., Northwest	393	212	284	111	168	0	168	0	0	0
Tuskegee U.	394	383	383	163	166	0	134	0	32	0
West Texas A&M U.	394	11	2	75	166	0	166	0	0	0
Indiana State U.	396	148	168	155	160	0	39	0	121	0
Vassar C.	396	234	773	168	160	0	13	0	147	0
Tennessee State U.	398	453	318	112	159	120	39	0	0	0
Davidson C.	399	345	215	232	157	0	112	0	45	0
U. Washington, Bothell	400	0	0	215	156	0	0	0	156	0
Murray State U.	401	41	157	328	155	0	155	0	0	0
U. Alaska, Anchorage	402	22	17	16	154	95	59	0	0	0
California State U., Chico	403	4	86	166	150	0	6	0	144	0
Reed C.	403	0	25	81	150	0	109	0	41	0
Macalester C.	405	335	267	322	149	0	118	0	31	0
Benedict C.	406	314	518	364	146	0	146	0	0	0
Claremont McKenna C.	407	50	39	140	144	0	85	0	59	0
U. Nebraska, Kearney	408	158	158	248	142	15	118	0	9	0
U. New Haven	408	0	26	300	142	0	0	142	0	0
Loyola Marymount U.	410	23	131	132	140	0	140	0	0	0
SUNY, C. of Environmental Science and Forestry	411	175	32	52	136	71	47	0	0	18
Hobart and William Smith Colleges	412	205	ne	186	132	0	0	0	82	50
C. Wooster	413	185	436	251	126	0	91	0	35	0
Eastern Michigan U.	413	72	155	185	126	19	1	75	31	0
Purdue U., Fort Wayne	415	43	57	101	123	0	123	0	0	0
Sonoma State U.	415	ne	ne	ne	123	0	8	0	0	115

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Western Carolina U.	417	93	144	172	118	0	118	0	0	0
U. Tulsa	418	656	364	202	114	0	43	0	71	0
Connecticut C.	419	308	249	384	113	0	113	0	0	0
SUNY, C. Plattsburgh	420	129	333	259	110	0	0	0	110	0
Gettysburg C.	421	42	333	206	109	0	0	0	41	68
Langston U.	421	36 i	33 i	29	109	0	0	0	0	109
Texas A&M U.-Kingsville	423	68	28	129	108	0	108	0	0	0
U. Wisconsin-Oshkosh	424	95 i	99 i	103 i	107 i	17 i	42 i	0 i	48 i	0 i
Fairfield U.	425	292	95	442	100	0	41	0	42	17
Marshall U.	426	234	260	462	99	0	99	0	0	0
Roger Williams U.	427	451	187	139	98	0	0	0	0	98
Montana Technological U.	428	217	77	54	97	0	97	0	0	0
Suffolk U.	428	118 i	ne	ne	97	0	97	0	0	0
Weber State U.	430	ne	ne	ne	95	0	74	0	21	0
Black Hills State U.	431	444	395	371	91	0	0	0	91	0
U. of St. Thomas (MN)	432	89	87	61	90	0	49	0	41	0
Fort Hays State U.	433	ne	ne	52	85	0	64	0	21	0
U. Wisconsin-Stevens Point	433	49 i	61 i	73 i	85	0	42	0	43	0
New Jersey City U.	435	1,185	2,105	55	82	0	82	0	0	0
Humboldt State U.	436	52	69	48	76	0	0	0	76	0
Mercyhurst U.	437	35 i	ne	71 i	73 i	0 i	25 i	0 i	48 i	0 i
West Chester U. Pennsylvania	437	130	36	84	73	38	35	0	0	0
Fort Valley State U.	439	102	88	104	72	0	72	0	0	0
U. Wisconsin-Green Bay	439	62 i	43 i	66 i	72 i	0 i	33 i	0 i	39 i	0 i
Manhattan C.	441	ne	ne	55	71	0	71	0	0	0
U. Colorado Colorado Springs	442	78	105	68	69	0	0	0	22	47
Eastern Washington U.	443	106	212	152	66	0	0	0	66	0
Northeastern Illinois U.	443	75	88	84	66	0	0	0	0	66
Wheaton C., Wheaton	443	10	23	74	66	0	0	0	66	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020														
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec									
Willamette U.	443	67	245	194	66	0	62	0	4	0									
Doane U.	447	ne	166	60	62	i	0	i	62	i	0	i							
Eastern Kentucky U.	448	251	62	0	61		0		26		0		35		0				
Alabama State U.	449	0	0	0	60		0		0		0		0		60				
Biola U.	449	53	i	55	i	58	i	60	i	0	i	21	i	0	i	39	i	0	i
Central Connecticut State U.	449	16	ne	78	60		0		60		0		0		0		0		
Western Illinois U.	449	3		0		36		60		0		21		0		39		0	
California Lutheran U.	453	ne	ne	36	59		0		59		0		0		0		0		
Seattle U.	454	105		137		50		58		0		0		0		58		0	
U. South Florida, Saint Petersburg	455	46		0		61		56		0		56		0		0		0	
U. Louisiana, Monroe	456	0		26		67		55		0		55		0		0		0	
Albany State U.	457	78		137		150		54		0		54		0		0		0	
U. of Mary Washington	457	ne		4		48		54		0		49		0		5		0	
Keene State C.	459	0	ne	52	53		0		53		0		0		0		0		
Lipscomb U.	460	ne	ne	ne	52	i	0	i	17	i	0	i	0	i	35	i	0	i	
Long Island U.	461	77		60		171		51		0		0		0		51		0	
Savannah State U.	462	140		59		63		50		0		0		0		0		50	
Texas Woman's U.	463	8		7		0		49		49		0		0		0		0	
U. Baltimore	464	0		36		34		45		0		0		0		0		45	
Saint Michael's C.	465	101		127		101		42		0		0		0		42		0	
SUNY, C. Brockport	466	0		0		6		41		0		39		0		2		0	
St. Bonaventure U.	467	ne	ne	ne	38		0		38		0		0		0		0		
Texas A&M International U.	467	43		1		0		38		0		0		0		38		0	
U. Wisconsin-Platteville	469	40	i	ne		36	i	36	i	0	i	36	i	0	i	0	i	0	i
Pennsylvania State U., Behrend	470	54		30		33		31		0		16		0		15		0	
U. Alaska, Southeast	471	0		0		0		30		30		0		0		0		0	
California State U., Bakersfield	472	0		0		313		29		0		29		0		0		0	
Pacific U.	472	731		220		283		29		8		0		0		21		0	
Lincoln U., Jefferson City	474	71		17		71		26		0		26		0		0		0	

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Michigan, Dearborn	474	166	64	107	26	0	0	0	0	26
U. Ana G. Mendez, Gurabo	476	0	144	29	25	0	25	0	0	0
Pittsburg State U.	477	33	21	30	22	0	19	0	3	0
Saginaw Valley State U.	478	21	30	294	21	0	21	0	0	0
Salisbury U.	478	64	42	335	21	0	21	0	0	0
C. of Saint Benedict	480	16	22	21 i	20 i	0 i	20 i	0 i	0 i	0 i
Lamar U.	480	78	23	101	20	0	20	0	0	0
U. Northern Colorado	482	26	26	20	19	19	0	0	0	0
Dickinson C.	483	78	ne	39	16	0	0	0	0	16
Colorado C.	484	266	60	14	15	0	0	0	15	0
Austin Peay State U.	485	190	271	207	13	0	0	0	13	0
St. Olaf C.	485	105	106	60	13	0	6	0	7	0
Azusa Pacific U.	487	40	44	28	12	0	12	0	0	0
U. Illinois, Springfield	487	0	0	12	12	0	12	0	0	0
U. South Carolina, Aiken	489	8	0	0	8	0	8	0	0	0
Alfred U.	490	9	11	13	7	7	0	0	0	0
Central State U.	491	37	83	63	6	0	6	0	0	0
Lawrence Technological U.	491	16	56	0	6	0	0	0	6	0
Trinity C., Hartford	493	166	129	92	5	0	5	0	0	0
Hofstra U.	494	38	24	38	4	4	0	0	0	0
Hamilton C.	495	5	3	12	3	0	0	0	3	0
St. Cloud State U.	495	13	1	2	3	0	0	0	3	0
Minnesota State U., Mankato	497	38	74	94	2	0	0	0	2	0
SUNY, Buffalo State	497	43	23	17	2	0	0	0	2	0
Bradley U.	499	36	45	243	1	0	1	0	0	0
All other surveyed institutions	-	89,682	86,096	2,755	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 \$341,894 thousand in federally financed R&D expenditures in physical sciences 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.