

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
All institutions	-	3,789,953	3,846,606	4,211,858	4,621,763	659,781	1,413,489	205,797	2,123,118	219,578
Johns Hopkins U. ^a	1	372,067	321,641	300,741	318,657	20,704	25,138	3,130	248,916	20,769
California Institute of Technology	2	178,896	160,456	181,341	160,855	51,376	22,744	0	81,849	4,886
U. California, Berkeley	3	84,023	90,707	134,927	157,546	118,279	27,813	0	7,112	4,342
Michigan State U.	4	100,092	122,143	133,138	154,210	65	9,393	0	144,752	0
U. Colorado Boulder	5	106,414	111,234	127,772	146,786	58,334	9,936	0	71,502	7,014
Massachusetts Institute of Technology	6	105,097	114,108	127,635	132,434	33,267	23,384	3,788	56,056	15,939
U. Rochester	7	94,572	92,680	103,745	117,139	0	6,196	0	110,943	0
Cornell U.	8	96,374	93,608	94,346	105,708	9,890	21,632	1,980	42,061	30,145
U. Maryland ^b	9	81,584	83,425	86,830	102,096	45,793	6,534	7,215	33,004	9,550
U. Arizona	10	77,135	73,148	75,484	87,271	72,986	6,796	1,996	5,493	0
Stanford U.	11	68,199	72,190	74,962	78,192	3,437	26,366	8,903	37,003	2,483
U. Texas, Austin	12	56,570	59,786	65,599	76,105	8,056	9,496	42,153	16,400	0
U. Wisconsin-Madison	13	58,512	60,580	65,819	73,094	2,731	23,545	0	27,280	19,538
U. California, San Diego	14	49,002	54,485	67,979	70,946	4,935	30,706	0	22,834	12,471
Harvard U.	15	55,363	59,262	66,072	65,331	5,981	19,797	3,711	34,387	1,455
U. Washington, Seattle	16	52,913	52,053	56,218	63,604	7,508	26,560	1,424	23,796	4,316
U. Chicago	17	43,904	47,425	59,248	61,355	12,850	29,008	4,930	14,173	394
Princeton U.	18	60,336	56,283	58,459	59,526	26,983	13,834	0	18,686	23
Pennsylvania State U., University Park and Hershey Medical Center	19	54,776	53,869	53,722	58,927	9,966	11,765	15,174	22,022	0
U. Illinois, Urbana-Champaign	20	49,164	49,944	51,602	57,753	4,961	21,096	0	31,688	8
U. Iowa	21	18,913	28,692	50,134	57,100	1,055	4,319	0	51,726	0
Northwestern U.	22	46,669	49,661	50,617	53,306	2,037	23,314	15,370	10,597	1,988
Florida State U.	23	42,211	37,224	40,242	52,655	209	12,918	4,095	35,433	0
U. Pennsylvania	24	38,206	39,630	46,353	49,316	3	18,079	13,059	18,175	0
U. California, Santa Barbara	25	36,695	34,841	48,512	47,290	2,454	6,841	11,309	18,547	8,139
U. California, Los Angeles	26	37,430	36,246	42,141	44,032	0	19,114	0	24,918	0
U. Michigan, Ann Arbor	27	35,572	38,670	39,773	42,501	3,789	20,730	0	17,982	0
Columbia U. in the City of New York	28	31,519	40,994	43,442	41,677	10,301	12,365	2,394	16,617	0
U. California, San Francisco	29	41,413	37,312	42,570	41,585	0	41,585	0	0	0
SUNY, Stony Brook U.	30	30,902	33,285	34,829	38,023	2,170	11,308	0	24,545	0
Yale U.	31	28,840	29,641	33,421	37,212	831	19,638	0	16,743	0
U. Notre Dame	32	28,853	29,976	29,426	37,066	0	22,306	0	14,760	0
U. Minnesota, Twin Cities	33	32,576	32,702	32,029	33,927	1,977	13,527	0	18,423	0
Purdue U., West Lafayette	34	21,579	24,204	27,908	32,897	0	18,651	0	14,246	0

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Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. North Carolina, Chapel Hill	35	27,083	25,924	34,295	32,265	888	20,298	0	8,245	2,834
Texas A&M U., College Station and Health Science Center	36	21,208	22,946	27,656	31,816	1,151	11,935	4,438	13,326	966
Catholic U. of America	37	17,261	18,569	23,076	30,887	0	3	0	27,081	3,803
U. California, Irvine	38	26,725	24,451	28,779	30,228	0	17,070	0	13,158	0
U. Florida	39	16,445	17,471	21,896	28,674	1,457	16,093	0	11,124	0
U. Central Florida	40	18,837	20,915	22,509	28,344	0	2,608	0	25,736	0
U. Delaware	41	19,931	21,099	26,652	28,042	1,397	8,964	11,988	5,693	0
Arizona State U.	42	12,385	14,065	14,612	27,453	0	5,406	0	9,450	12,597
Ohio State U.	43	44,079	30,584	27,702	27,100	2,203	6,686	100	18,111	0
U. Nebraska, Lincoln and Medical Center ^c	44	na	na	na	26,970	0	8,922	0	18,048	0
Boston U.	45	20,726	23,002	24,802	26,252	1,621	11,916	0	12,715	0
Washington U., Saint Louis	46	18,393	20,017	21,448	25,365	0	9,328	7,184	8,853	0
Duke U.	47	19,178	19,826	20,898	25,284	0	13,439	0	11,845	0
Georgia Institute of Technology	48	22,417	22,213	22,817	24,326	0	16,390	0	7,936	0
U. California, Davis	49	17,230	17,078	23,183	23,211	0	11,408	0	8,183	3,620
Iowa State U.	50	17,815	20,463	23,640	23,112	0	12,091	0	11,021	0
Northeastern U.	51	13,194	16,081	17,077	23,066	0	10,150	0	12,916	0
U. California, Santa Cruz	52	17,723	16,115	19,002	22,072	5,244	10,702	0	6,051	75
Rice U.	53	16,313	17,271	18,067	21,939	1,003	8,899	93	11,944	0
Montana State U., Bozeman	54	10,794	16,551	13,784	21,673	0	5,006	0	16,667	0
U. Maryland, Baltimore County	55	17,092	17,339	17,591	21,603	15,027	3,075	152	3,349	0
U. Pittsburgh, Pittsburgh	56	17,786	16,509	19,723	21,533	1,374	10,990	0	9,169	0
U. Utah	57	19,006	19,543	17,611	20,854	0	14,811	0	6,043	0
U. Illinois, Chicago	58	10,533	12,875	15,452	20,200	0	7,331	0	12,869	0
U. Virginia, Charlottesville	59	19,333	20,408	20,481	19,880	2,860	8,202	0	8,818	0
Florida International U.	60	11,642	14,476	18,951	19,452	0	16,789	0	2,657	6
New York U.	61	18,606	19,664	17,913	18,882	0	10,116	0	8,766	0
U. Massachusetts, Amherst	62	18,261	15,054	16,202	18,832	4,406	8,193	0	6,233	0
Indiana U., Bloomington	63	21,233	19,340	19,586	18,516	488	11,063	0	6,965	0
North Carolina State U.	64	13,657	15,032	16,847	16,937	0	8,771	0	8,108	58
Vanderbilt U. and Vanderbilt U. Medical Center	65	15,195	15,636	16,621	16,670	0	9,763	0	6,907	0
Emory U.	66	15,380	18,181	17,121	16,167	0	12,978	0	3,189	0
Colorado State U., Fort Collins	67	7,884	10,355	12,006	16,078	0	9,720	1,010	4,966	382
U. Tennessee, Knoxville	68	12,121	11,804	13,906	15,806	0	5,308	0	10,498	0
U. Hawaii, Manoa	69	19,021	16,519	14,059	15,748	9,642	2,033	0	4,068	5

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Virginia Polytechnic Institute and State U.	70	13,854	13,944	14,686	15,624	310	9,822	360	5,006	126
U. California, Riverside	71	14,276	14,667	15,648	15,451	0	8,960	0	6,491	0
Colorado School of Mines	72	9,353	9,963	11,243	15,408	345	3,534	5,405	5,660	464
Carnegie Mellon U.	73	11,165	11,139	13,327	15,023	1,103	5,469	1,838	6,558	55
U. Alabama, Huntsville	74	9,595	10,716	13,902	14,689	13,290	28	0	1,360	11
Louisiana State U., Baton Rouge	75	13,295	13,940	12,932	14,676	0	5,919	0	8,594	163
U. Oregon	76	9,034	9,747	10,590	14,369	0	8,287	359	3,093	2,630
Wayne State U.	77	9,101	12,051	12,936	14,149	0	8,923	0	2,895	2,331
Washington State U.	78	14,813	16,946	14,433	13,980	317	4,277	1,914	7,374	98
U. Kansas	79	6,488	12,448	12,742	13,648	679	9,418	0	3,551	0
U. Southern California	80	13,605	13,175	13,210	13,375	4,854	8,521	0	0	0
Rutgers, State U. New Jersey, New Brunswick	81	12,991	13,160	13,707	13,191	924	3,310	588	8,320	49
U. Arkansas, Fayetteville	82	4,452	4,371	6,309	13,005	0	2,635	11	9,144	1,215
Brown U.	83	11,133	11,410	11,868	12,798	0	4,037	0	7,048	1,713
U. Massachusetts, Lowell	84	11,202	11,048	11,112	12,222	0	1,278	0	10,944	0
Temple U.	85	10,820	10,707	10,386	12,195	0	5,601	0	3,180	3,414
U. Texas M. D. Anderson Cancer Center	86	8,114	8,179	8,306	11,861	0	0	0	11,861	0
U. Connecticut	87	8,124	7,346	8,473	11,828	0	6,103	0	5,725	0
U. Oklahoma, Norman and Health Science Center	88	11,446	8,751	11,218	11,345	0	7,361	0	3,984	0
West Virginia U.	89	8,805	8,900	8,912	11,286	2,327	3,148	0	5,811	0
Syracuse U.	90	7,140	8,073	8,255	11,176	0	3,413	0	7,763	0
U. Texas, Dallas	91	9,295	9,314	9,735	11,068	4,176	3,019	0	3,867	6
Georgia State U.	92	13,754	10,035	10,406	10,931	2,689	4,782	0	3,460	0
U. Texas, Arlington	93	8,422	8,778	11,568	10,808	0	2,466	0	8,342	0
Brandeis U.	94	7,218	6,779	9,444	10,317	4,325	3,148	533	2,311	0
U. New Mexico	95	7,146	6,179	8,996	10,132	1,176	2,707	0	6,249	0
SUNY, U. Buffalo	96	7,195	8,075	8,088	9,997	0	7,601	0	2,396	0
U. Southern Mississippi	97	8,527	11,564	11,417	9,823	0	9,325	0	0	498
Boston C.	98	7,098	8,597	9,471	9,802	0	6,854	0	2,948	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	99	7,751	9,181	10,411	9,680	0	4,589	0	5,091	0
U. Alaska, Fairbanks	100	9,919	11,116	9,045	9,443	8,834	73	0	244	292
Rochester Institute of Technology	101	7,787	8,426	9,087	9,434	0	560	0	3,363	5,511
Auburn U., Auburn	102	6,866	6,649	7,721	9,293	772	2,635	205	5,600	81
U. Houston	103	6,336	6,931	8,607	9,287	293	4,355	531	3,424	684
CUNY, City C.	104	7,007	7,213	9,999	9,283	0	5,331	0	3,952	0

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Kansas State U.	105	8,746	9,082	9,933	9,127	0	1,805	0	7,322	0
U. Toledo	106	5,136	7,627	9,009	8,941	905	2,384	0	5,644	8
U. Mississippi	107	7,993	7,712	7,655	8,722	0	1,997	0	6,725	0
New Jersey Institute of Technology	108	8,354	8,145	8,524	8,613	6,369	1,039	0	1,205	0
Tufts U.	109	6,118	8,268	9,794	8,160	524	5,982	859	560	235
Clemson U.	110	6,157	6,037	7,828	8,075	0	2,897	0	5,178	0
U. Alabama, Tuscaloosa	111	4,720	4,913	5,722	7,960	271	5,109	0	2,580	0
North Dakota State U.	112	2,853	6,937	6,438	7,949	0	2,365	5,450	134	0
Georgetown U.	113	7,424	8,304	10,109	7,924	0	2,355	0	5,503	66
U. Missouri, Columbia	114	7,654	6,710	6,664	7,860	0	5,281	0	2,579	0
U. Nevada, Reno	115	4,702	4,912	5,829	7,666	0	3,850	434	3,382	0
Xavier U. Louisiana	116	7,077	8,325	7,504	7,608	0	7,608	0	0	0
New Mexico State U.	117	18,373	14,524	7,819	7,413	4,224	848	0	1,541	800
California State U., Northridge	118	4,750	6,665	6,308	7,252	415	1,056	0	1,348	4,433
U. Kentucky	119	6,785	7,061	7,897	7,162	0	4,205	0	2,957	0
Air Force Institute of Technology	120	4,973	8,037	8,136	7,070	0	0	0	7,070	0
Oregon State U.	121	4,523	4,453	5,326	7,052	162	1,505	545	4,827	13
New Mexico Institute of Mining and Technology	122	1,348	1,139	1,645	6,995	0	0	0	6,995	0
Jackson State U.	123	9,305	7,625	6,788	6,754	0	4,213	0	2,541	0
SUNY, Binghamton U.	124	7,642	5,541	5,229	6,688	0	5,542	0	1,146	0
U. Montana, Missoula	125	5,428	6,313	5,843	6,654	0	1,762	0	292	4,600
U. Texas, El Paso	126	4,257	4,537	5,077	6,551	0	4,691	0	1,860	0
U. Cincinnati	127	4,041	4,501	5,296	6,422	0	3,743	0	2,679	0
U. Wisconsin-Milwaukee	128	5,010	7,800	7,058	6,420	4,448	1,132	0	840	0
U. Nevada, Las Vegas	129	4,073	4,170	4,861	6,399	617	3,165	0	2,617	0
Embry-Riddle Aeronautical U.	130	1,859	2,482	4,744	6,290	14	0	0	279	5,997
CUNY, Advanced Science Research Center	131	3,018	4,719	7,392	6,092	0	1,940	0	4,152	0
U. Miami	132	4,172	4,482	5,415	5,934	0	1,971	0	3,963	0
Old Dominion U.	133	4,601	4,475	5,033	5,894	0	2,362	0	3,532	0
George Mason U.	134	4,656	3,561	5,050	5,856	3,077	1,022	1,253	447	57
Mississippi State U.	135	2,267	2,399	4,142	5,802	17	1,498	2,363	1,924	0
Howard U.	136	4,381	4,733	4,953	5,764	1,633	3,694	0	437	0
George Washington U.	137	5,366	4,872	5,637	5,740	0	1,853	0	3,887	0
San Diego State U.	138	2,992	2,931	4,613	5,712	421	4,438	0	853	0
William & Mary	139	4,428	4,140	4,946	5,641	0	561	0	5,080	0

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U. North Dakota	140	739	703	1,540	5,282	0	1,335	0	3,947	0
Rensselaer Polytechnic Institute	141	4,184	4,033	4,338	5,155	0	4,013	0	1,142	0
North Carolina Central U.	142	2,888	2,990	4,596	5,092	0	382	0	4,710	0
U. Texas, San Antonio	143	4,702	5,338	5,547	5,045	0	2,356	0	2,689	0
Northern Illinois U.	144	3,713	3,668	4,712	4,986	0	1,903	0	3,083	0
Boise State U.	145	2,678	4,976	4,686	4,961	132	774	3,613	442	0
U. Georgia	146	4,815	4,936	4,090	4,938	448	3,667	0	823	0
U. North Carolina, Charlotte	147	2,878	2,577	2,574	4,854	0	2,426	0	2,428	0
U. Akron	148	4,238	4,026	4,811	4,844	0	4,844	0	0	0
U. California, Merced	149	4,891	2,865	4,363	4,779	0	1,783	0	2,586	410
Delaware State U.	150	1,595	1,833	3,172	4,727	101	1,015	6	3,605	0
Kent State U.	151	3,715	3,843	3,722	4,710	160	1,204	748	2,421	177
U. Puerto Rico, Rio Piedras	152	3,427	4,104	4,386	4,606	80	3,052	0	1,474	0
Texas Tech U.	153	4,217	4,067	4,026	4,550	0	2,401	288	1,861	0
Northern Arizona U.	154	3,147	3,885	3,894	4,508	2,881	46	111	718	752
Case Western Reserve U.	155	7,203	7,538	7,764	4,507	176	2,419	0	1,912	0
CUNY, Hunter C.	156	3,552	4,840	4,191	4,500	0	3,048	0	1,303	149
Baylor U.	157	2,110	2,661	3,708	4,451	25	2,792	393	1,241	0
U. South Florida ^d	158	5,306	4,803	5,335	4,431	0	2,324	0	1,777	330
Brigham Young U., Provo	159	4,133	4,414	5,323	4,348	0	1,783	0	2,565	0
U. North Carolina, Greensboro	160	2,612	2,761	4,149	4,306	0	2,553	1,753	0	0
U. Alabama, Birmingham	161	3,934	4,292	3,395	4,247	0	1,511	4	2,732	0
Utah State U.	162	3,982	3,395	3,837	4,246	0	2,046	0	2,200	0
Tulane U.	163	3,343	3,041	3,091	4,173	0	1,990	0	2,183	0
Ohio U.	164	3,467	4,143	4,370	4,116	0	360	0	3,756	0
Lehigh U.	165	2,166	2,534	3,322	4,084	0	1,757	0	2,327	0
Naval Postgraduate School	166	8,513	5,658	4,668	4,038	0	647	88	2,580	723
Oklahoma State U., Stillwater	167	2,870	2,640	3,379	3,955	0	2,020	0	1,935	0
Texas State U.	168	1,798	2,774	2,960	3,905	0	2,938	0	967	0
Hampton U.	169	3,142	3,409	4,282	3,898	0	342	0	3,556	0
California State U., Los Angeles	170	4,255	4,085	4,910	3,807	0	3,516	0	291	0
SUNY, U. Albany	171	3,917	3,663	2,984	3,759	0	3,039	0	720	0
Virginia Commonwealth U.	172	2,194	2,348	2,560	3,547	0	2,408	0	1,139	0
Miami U.	173	408	2,638	2,078	3,444	0	2,978	0	209	257
American U.	174	3,401	3,136	3,078	3,433	0	342	0	3,091	0

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South Dakota School of Mines and Technology	175	1,384	1,504	2,305	3,214	0	1,399	0	1,815	0
Morgan State U.	176	393	759	2,225	3,173	0	745	0	2,384	44
U. North Texas, Denton	177	2,329	2,696	3,134	3,162	0	2,115	0	1,047	0
North Carolina A&T State U.	178	1,163	1,125	1,996	3,084	0	1,616	0	1,468	0
U. Rhode Island	179	2,579	2,203	2,698	3,062	0	2,057	0	155	850
Missouri U. of Science and Technology	180	4,591	2,652	2,838	3,055	0	2,300	0	755	0
Clark Atlanta U.	181	1,422	1,407	2,379	2,956	0	2,826	0	130	0
Saint Louis U.	182	1,302	1,237	2,088	2,955	0	2,955	0	0	0
California State U., San Bernardino	183	1,448	1,809	2,413	2,947	0	1,951	40	956	0
U. New Hampshire	184	3,335	2,355	2,402	2,846	0	1,045	389	1,412	0
Rutgers, State U. New Jersey, Newark	185	1,436	2,020	2,906	2,839	0	2,320	0	519	0
U. Maine	186	1,868	2,289	2,278	2,820	0	0	0	2,820	0
Morehouse C.	187	1,517	1,831	2,393	2,813	0	390	0	354	2,069
Worcester Polytechnic Institute	188	1,603	2,171	1,869	2,787	0	1,408	0	1,379	0
Southern Methodist U.	189	2,855	3,420	3,652	2,774	0	1,050	0	1,724	0
Rockefeller U.	190	2,882	3,581	2,185	2,713	0	2,534	0	179	0
San Jose State U.	191	2,035	2,129	2,376	2,663	0	1,180	0	1,167	316
CUNY, Lehman C.	192	2,021	1,964	2,487	2,603	537	2,066	0	0	0
California State U., Long Beach	193	2,502	2,574	2,698	2,589	435	2,122	32	0	0
Illinois Institute of Technology	194	2,734	2,909	3,072	2,552	0	131	0	2,421	0
Indiana U.-Purdue U., Indianapolis	195	1,374	1,871	1,998	2,535	0	1,527	0	1,008	0
Troy U.	196	1,216	1,094	1,910	2,525	0	0	2,525	0	0
CUNY, Brooklyn C.	197	845	1,297	1,779	2,491	0	2,115	0	376	0
U. Wyoming	198	1,206	1,748	1,541	2,469	362	1,036	54	983	34
U. South Dakota	199	1,968	1,754	1,877	2,467	0	1,158	0	1,309	0
Oakland U.	200	1,852	2,062	2,522	2,411	0	1,135	0	1,276	0
South Dakota State U.	201	1,058	1,448	1,312	2,403	0	2,295	0	108	0
Stevens Institute of Technology	202	1,648	1,500	1,257	2,206	0	735	267	1,204	0
Florida A&M U.	203	1,366	1,344	1,874	2,169	0	83	0	2,086	0
U. Texas Rio Grande Valley	203	2,215	1,083	1,299	2,169	873	67	114	1,115	0
Tuskegee U.	205	166	169	1,910	2,135	0	40	1,944	151	0
Rowan U.	206	407	1,404	1,309	2,031	52	1,655	0	322	2
Western Washington U.	207	989	1,321	1,629	2,021	269	1,506	246	0	0
Central Michigan U.	208	2,044	1,814	2,053	1,960	432	34	69	1,425	0
U.S. Naval Academy	209	2,096	1,499	1,515	1,959	0	807	0	1,152	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Massachusetts, Boston	210	2,239	2,420	1,793	1,925	0	1,498	0	427	0
Fisk U.	211	212	1,525	1,693	1,879	0	80	437	1,362	0
U. Puerto Rico, Mayaguez	212	904	687	1,280	1,857	0	1,214	95	548	0
Florida Atlantic U.	213	1,317	1,135	1,498	1,837	195	1,076	0	566	0
U. Vermont	214	2,710	2,061	2,302	1,828	0	1,201	0	627	0
U. Colorado Denver ^e	215	na	1,561	1,798	1,809	0	1,301	0	508	0
Illinois State U.	216	511	923	1,219	1,711	0	1,020	0	691	0
Texas Southern U.	217	1,069	1,036	874	1,673	0	996	0	416	261
U.S. Air Force Academy	218	2,714	2,348	2,175	1,669	1,094	0	0	575	0
Wichita State U.	219	912	853	1,037	1,658	0	1,048	0	610	0
Clarkson U.	220	767	422	1,636	1,653	0	935	0	150	568
Villanova U.	221	1,658	1,412	1,467	1,634	499	430	0	705	0
Drexel U.	222	1,582	1,429	1,597	1,615	0	433	0	1,182	0
U. Puerto Rico, Humacao	223	922	899	1,014	1,600	217	420	867	96	0
Michigan Technological U.	224	1,282	1,248	1,659	1,591	0	977	0	614	0
Wesleyan U.	225	1,540	1,429	1,542	1,567	303	822	0	442	0
Chicago State U.	226	ne	ne	1,339	1,534	0	531	0	1,003	0
California Polytechnic State U., San Luis Obispo	227	1,202	932	1,347	1,523	0	451	0	1,072	0
Chapman U.	228	1,655	936	1,434	1,511	0	510	0	112	889
Barnard C.	229	805	1,246	1,411	1,485	795	690	0	0	0
Wake Forest U.	230	1,499	1,470	1,310	1,482	0	383	0	1,099	0
CUNY, Queens C.	231	1,041	1,475	1,488	1,455	0	1,148	0	307	0
U. Denver	232	3,373	2,532	2,877	1,452	67	981	79	325	0
U. Louisville	233	1,446	1,406	1,481	1,382	76	1,002	37	96	171
James Madison U.	234	531	919	1,195	1,367	157	817	0	204	189
Florida Institute of Technology	235	2,109	2,448	951	1,343	299	203	0	725	116
U. South Carolina, Columbia	236	2,264	1,467	1,401	1,336	0	0	0	1,336	0
California State Polytechnic U., Pomona	237	1,393	1,105	1,229	1,329	1,123	205	0	1	0
Creighton U.	238	806 i	881 i	1,234 i	1,302 i	0 i	458 i	0 i	844 i	0 i
Texas A&M U.-Corpus Christi	239	1,250	808	1,169	1,297	0	49	0	0	1,248
Prairie View A&M U.	240	489	807	1,881	1,287	0	687	470	130	0
Portland State U.	241	1,937	1,462	1,762	1,285	0	1,255	0	30	0
U. Idaho	242	771	831	1,224	1,265	823	152	92	198	0
Southern Illinois U., Carbondale	243	1,270	1,081	1,027	1,263	58	729	0	445	31
East Carolina U.	244	1,135	1,387	1,216	1,260	0	1,004	0	256	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Marquette U.	245	1,649	2,614	1,620	1,259	0	1,053	0	206	0
Marshall U.	246	99	155	1,068	1,229	0	1,206	0	23	0
Christopher Newport U.	247	571	546	690	1,220	0	20	0	1,200	0
Loyola U., Chicago	248	610	716	1,253	1,188	0	990	0	198	0
California State U., Fresno	249	868	1,192	1,984	1,180	0	1,035	0	145	0
U. North Carolina, Wilmington	250	336	419	615	1,178	0	85	0	0	1,093
Bowling Green State U.	251	1,331	1,402	1,145	1,173	0	744	110	319	0
San Francisco State U.	252	1,206 i	1,218	1,106	1,151	238	350	0	563	0
U. of the Virgin Islands	253	908	1,069	1,130	1,130	0	0	0	0	1,130
CUNY, C. Staten Island	254	770	478	955	1,114	0	1,022	0	92	0
U. Memphis	255	1,100	1,309	1,018	1,096	98	762	78	158	0
Norfolk State U.	256	726	763	1,051	1,051	0	0	0	1,051	0
Haverford C.	257	2,259	2,216	2,070	1,024	278	131	401	214	0
California State U., Fullerton	258	1,003	1,058	1,108	989	549	120	102	218	0
Alabama A&M U.	259	481 i	596 i	739 i	978 i	0 i	442 i	0 i	536 i	0 i
California State U., San Marcos	260	1,667	1,060	981	976	0	0	0	677	299
Montclair State U.	261	263	466	845	956	47	823	0	86	0
SUNY, Geneseo	262	624	888	1,108	955	0	240	0	715	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	263	844	838	741	945	0	363	0	582	0
Seton Hall U.	264	401	396	722	939	0	708	0	231	0
U. West Florida	265	1,049	1,014	1,012	904	0	0	0	0	904
California State U., Dominguez Hills	266	393	317	1,019	892	0	0	0	892	0
U. North Carolina, Asheville	267	687	443	672	864	153	155	0	7	549
Ball State U.	268	315	449	497	857	0	815	0	42	0
Abilene Christian U.	269	ne	712	905	836	0	0	0	836	0
Furman U.	269	358	523	768	836	0	835	0	1	0
Middle Tennessee State U.	271	412	1,769	945	833	26	702	0	105	0
U. Northern Iowa	272	796	894	848	831	0	666	0	165	0
U. New Orleans	273	782	1,171	771	825	0	426	0	399	0
Western Kentucky U.	274	1,072	717	1,058	820	0	302	0	518	0
U. South Alabama	275	363	499	479	816	0	638	0	178	0
U. Washington, Bothell	276	156	681	1,152	808	0	0	0	766	42
U. Missouri, Kansas City	277	1,102	1,104	969	800	179	319	0	302	0
Texas Christian U.	278	388	321	356	776	91	274	0	411	0
Spelman C.	279	713	523	410	774	0	640	0	134	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Wellesley C.	280	251	286	157	764	42	722	0	0	0
Amherst C.	281	892	476	797	755	120	165	0	470	0
Texas A&M U.-Commerce	282	746	834	891	753	0	96	0	657	0
Trinity U.	283	604	586	620	721	40	535	0	146	0
U. Arkansas, Pine Bluff	284	418	895	296	716	0	716	0	0	0
Fort Lewis C.	285	435	786	733	693	0	60	619	14	0
California State U., East Bay	286	444	543	580	683	188	0	0	495	0
U. San Diego	287	837	658	443	680	0	283	0	397	0
Occidental C.	288	340	522	583	660	0	580	0	80	0
CUNY, Graduate Center	289	435	518	0	659	0	0	0	10	649
CUNY, John Jay C. of Criminal Justice	290	405	235	618	651	0	383	0	0	268
SUNY, C. of Environmental Science and Forestry	291	136	303	443	645	231	400	0	0	14
Southern Illinois U., Edwardsville	292	231	315	361	635	0	259	0	376	0
U. North Florida	293	374	352	436	630	0	322	0	308	0
West Chester U. Pennsylvania	294	73	135	252	620	50	392	0	178	0
Tougaloo C.	295	361	359	537	608	0	385	0	223	0
Hope C.	296	648	1,276	947	601	0	442	0	159	0
Swarthmore C.	297	366	655	486	600	106	348	0	146	0
U. Wisconsin-Eau Claire	298	456	641	438	585	20	474	91	0	0
Wright State U.	299	1,369	1,268	1,011	582	0	18	0	564	0
Cleveland State U.	300	716	313	394	580	0	357	0	223	0
Clark U.	301	747	717	719	579	0	285	0	294	0
Middlebury C.	302	388	644	547	569	0	274	0	295	0
Reed C.	303	150	159	492	557	0	353	0	204	0
Winston-Salem State U.	304	496	871	786	551	0	551	0	0	0
Southern Connecticut State U.	305	579	333	232	548	511	0	0	37	0
Macalester C.	306	149	335	505	547	40	507	0	0	0
CUNY, New York City C. of Technology	307	200	319	710	543	0	44	0	499	0
South Carolina State U.	308	414	456	498	541	0	0	0	541	0
Franklin and Marshall C.	309	350	415	508	529	55	383	0	91	0
Louisiana Tech U.	310	323	378	392	528	0	205	0	323	0
Pomona C.	311	490	263	522	523	60	308	0	155	0
U. Massachusetts, Dartmouth	312	275	485	437	520	0	485	0	35	0
C. Charleston	313	573	847	474	514	180	0	266	68	0
Santa Clara U.	314	445	454	535	509	0	307	0	202	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Missouri, Saint Louis	315	1,229	1,007	683	504	101	329	0	74	0
Appalachian State U.	316	172	171	434	497	0	337	0	160	0
Duquesne U.	317	664	426	441	494	0	410	0	84	0
Idaho State U.	318	889	1,034	647	482	0	245	0	237	0
Utah Valley U.	319	ne	ne	494	471	0	240	0	231	0
Tennessee Technological U.	320	914	672	446	467	0	216	0	251	0
Bucknell U.	321	604	i 592	929	462	31	220	0	211	0
C. New Jersey	322	354	351	840	455	0	270	0	185	0
Bowdoin C.	323	184	252	328	447	0	258	0	169	20
U. Nebraska, Omaha	324	0	47	99	446	0	0	0	446	0
Kenyon C.	325	194	ne	279	438	0	0	0	438	0
U. Tulsa	326	114	125	531	433	0	199	0	234	0
Bryn Mawr C.	327	388	325	636	432	0	112	0	320	0
Eastern Kentucky U.	328	61	115	ne	423	0	273	0	150	0
U. Arkansas, Little Rock	328	828	590	284	423	0	361	0	62	0
Saint Joseph's U.	330	0	0	456	422	0	422	0	0	0
California State U., Sacramento	331	196	130	213	419	0	254	0	165	0
Yeshiva U.	331	286	253	682	419	0	0	0	419	0
Grinnell C.	333	410	124	43	412	51	361	0	0	0
Murray State U.	334	155	141	240	410	0	401	0	9	0
U.S. Military Academy	335	814	338	178	408	0	19	389	0	0
East Tennessee State U.	336	315	134	192	397	296	101	0	0	0
Southern U. and A&M C., Baton Rouge	337	466	292	186	395	0	112	0	283	0
Calvin U.	338	245	i 245	i 246	393	29	178	0	0	186
U. Richmond	339	286	280	346	392	0	270	0	122	0
Colgate U.	340	248	259	686	389	14	103	0	272	0
Sam Houston State U.	341	414	298	189	387	0	246	0	141	0
Towson U.	342	187	300	493	386	20	196	0	170	0
Andrews U.	343	191	174	ne	377	377	0	0	0	0
Oberlin C.	343	262	190	ne	377	15	238	0	124	0
U. Minnesota, Duluth	345	303	337	315	376	0	114	0	262	0
Tennessee State U.	346	137	0	i 0	369	0	23	0	346	0
Skidmore C.	347	250	557	318	367	0	353	0	14	0
U. Dayton	348	849	820	680	361	0	18	136	207	0
Smith C.	349	264	334	315	359	11	188	0	160	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023												
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec							
Carleton C.	350	248	230	245	358	i	16	i	229	i	0	i	113	i	0	i	
Harvey Mudd C.	350	297	257	399	358		0		121		0		237		0		
Central State U.	352	6	67	954	352		0		270		0		82		0		
Lafayette C.	352	299	231	407	352		0		84		0		268		0		
Pennsylvania State U., Behrend	354	31	138	78	350		0		20		231		99		0		
U. Wisconsin-River Falls	355	258	60	ne	348		0		286		0		62		0		
CUNY, Baruch C.	356	296	253	330	347		0		0		0		347		0		
Claflin U.	357	258	129	102	340		0		320		0		20		0		
Georgia Southern U.	357	607	580	393	340		36		270		0		34		0		
U. Nebraska, Kearney	357	142	130	131	340		0		130		0		210		0		
Eastern Michigan U.	360	126	98	173	338		151		165		22		0		0		
U. Central Arkansas	361	490	375	273	337		5		325		0		7		0		
California State U., Monterey Bay	362	0	57	431	333		0		333		0		0		0		
C. Wooster	363	126	271	i	391		0		221		0		108		0		
Davidson C.	363	157	245	317	329		0		192		0		137		0		
Rhode Island C.	365	356	320	441	326		0		0		0		0		326		
Butler U.	366	ne	ne	105	317		0		317		0		0		0		
U. Alaska, Anchorage	367	154	1,010	315	310		166		116		0		28		0		
Williams C.	368	253	i	268	i	273	i	309	i	174	i	0	i	101	i	0	i
U. of the Incarnate Word	369	176	298	407	300		0		97		0		203		0		
Colby C.	370	299	184	197	294		96		156		0		42		0		
St. John's U., New York	371	325	304	418	280		0		280		0		0		0		
Gustavus Adolphus C.	372	ne	ne	ne	279		0		279		0		0		0		
Texas A&M International U.	372	38	101	186	279		0		101		125		53		0		
U. Colorado Anschutz Medical Campus ^e	372	na	344	353	279		0		0		0		279		0		
SUNY, C. Plattsburgh	375	110	107	26	270		0		0		0		270		0		
U. Guam	376	0	86	131	266		171		0		0		0		95		
Winthrop U.	377	231	316	350	264		0		264		0		0		0		
Vassar C.	378	160	138	61	259		170		89		0		0		0		
Mount Holyoke C.	379	471	434	322	256		95		0		0		161		0		
Northern Kentucky U.	380	514	401	633	255		0		199		0		56		0		
Grand Valley State U.	381	350	172	248	253		0		253		0		0		0		
Central Washington U.	382	255	213	517	251		0		52		0		199		0		
Providence C.	383	372	67	ne	248		20		228		0		0		0		
Lamar U.	384	20	49	30	244		0		57		0		187		0		

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Southeastern Louisiana U.	385	179	145	263	242	0	153	0	89	0
U. Colorado Colorado Springs	386	69	131	314	240	0	142	0	97	1
Kennesaw State U.	387	558	427	381	234	0	0	0	50	184
Whitman C.	387	241	ne	194	234	0	234	0	0	0
Indiana U., South Bend	389	ne	256	ne	232	0	14	0	218	0
California State U., Chico	390	150	166	155	230	0	0	0	230	0
Ursinus C.	391	ne	ne	ne	227	0	85	0	142	0
SUNY, Oswego	392	182	228	377	222	0	222	0	0	0
U. Central Oklahoma	392	651 i	683 i	200 i	222 i	0 i	123 i	0 i	99 i	0 i
Arkansas State U., Jonesboro	394	753	537	706	221	0	221	0	0	0
U. Louisiana, Lafayette	395	208	3,392	194	215	75	70	0	70	0
Fordham U.	396	294	251	642	212	0	212	0	0	0
Ithaca C.	397	301	246	205	206	0	150	0	56	0
Albion C.	398	272	231 i	217 i	203	203	0	0	0	0
Long Island U.	399	51	123	172	201	0	136	0	65	0
Seattle U.	400	58	79	126	198	0	0	0	198	0
Norwich U.	401	ne	ne	ne	196	0	196	0	0	0
U. Puerto Rico, Cayey	402	185	127	59	194	0	0	0	194	0
Claremont McKenna C.	403	144	136	385	191	0	82	0	109	0
New York Institute of Technology	404	0	3	101	190	0	0	0	190	0
Gallaudet U.	405	0	92	59	184	0	0	0	184	0
Fayetteville State U.	406	260	147	165	183 i	0 i	0 i	0 i	0 i	183 i
West Texas A&M U.	406	166	169	218	183	0	183	0	0	0
U. Hawaii, Hilo	408	214	64	270	180	0	62	0	118	0
U. Houston-Clear Lake	409	377	208	86	178	0	0	0	0	178
Florida Gulf Coast U.	410	344	106	166	177	0	177	0	0	0
SUNY, C. Brockport	410	41	54	179	177	50	27	0	100	0
Purdue U., Northwest	412	168	102	160	175	0	175	0	0	0
CUNY, York C.	413	510	186	152	172	0	172	0	0	0
Hobart and William Smith Colleges	413	132	104	195	172	0	10	0	162	0
California State U., Stanislaus	415	0	60	101	171	0	99	0	72	0
Indiana U. Pennsylvania	415	268	255	313	171	0	0	0	171	0
U. Michigan, Dearborn	417	26	6	22	169	0	0	0	0	169
Dillard U.	418	662	252	155	163	0	0	0	163	0
U. Louisiana, Monroe	418	55	10	125	163	0	163	0	0	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Willamette U.	420	66	83	56	161	0	114	0	47	0
Coastal Carolina U.	421	0	60	111	155	0	0	0	155	0
Colorado C.	422	15	4	211	148	0	0	0	148	0
Drake U.	423	ne	200	211	146	0	0	0	146	0
Virginia State U.	424	0	0	80	144	0	144	0	0	0
Trinity C., Hartford	425	5	86	85	143	0	143	0	0	0
Benedict C.	426	146	ne	ne	142	0	142	0	0	0
Gettysburg C.	427	109	ne	ne	140	0	137	0	3	0
Lewis and Clark C.	428	494	110	193	139	0	139	0	0	0
Ferris State U.	429	ne	ne	ne	134	0	117	0	17	0
U. Maryland Center for Environmental Science	430	174	256	141	132	0	56	0	76	0
Roger Williams U.	431	98	0	44	131	3	35	0	93	0
Loyola Marymount U.	432	140	104	99	124	0	124	0	0	0
Texas A&M U.-Kingsville	433	108	87	60	119	0	76	43	0	0
Fort Valley State U.	434	72	76	83	118	0	118	0	0	0
U. Wisconsin-Oshkosh	435	224 i	222	327	117	0	98	0	19	0
U. Wisconsin-La Crosse	436	205	323	74	114	0	46	0	68	0
Black Hills State U.	437	91	103	95	113	0	0	0	113	0
U. New Haven	437	142	216	120	113	0	0	113	0	0
U. Tennessee, Chattanooga	437	0	0	0	113	0	113	0	0	0
Union C., Schenectady	437	222	122	107	113	60	53	0	0	0
Albany State U.	441	54	102	ne	108	0	108	0	0	0
Canisius U.	441	ne	173	159	108	0	0	0	0	108
Western Illinois U.	443	60	63	84	106	0	67	0	39	0
Salisbury U.	444	21	148	40	102	0	102	0	0	0
U. Wisconsin-Stevens Point	444	85	14	87	102	0	102	0	0	0
California State U., Bakersfield	446	29	159	105	98	0	98	0	0	0
Austin Peay State U.	447	13	50	63	94	0	0	0	94	0
Bates C.	447	318	227	127	94	57	37	0	0	0
Langston U.	447	109	26	46	94	0	0	0	0	94
U. Wisconsin-Green Bay	447	72 i	66 i	80 i	94 i	0 i	42 i	0 i	52 i	0 i
Pennsylvania State U., Harrisburg	451	0	0	7	91	0	91	0	0	0
U. of the Pacific	452	307	223	152	88	37	51	0	0	0
U. Puget Sound	453	174	ne	60	86	0	86	0	0	0
Savannah State U.	454	50	34	53	85	0	85	0	0	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Augusta U.	455	0	0	187	82	0	82	0	0	0
Missouri State U.	456	380	258	159	81	81	0	0	0	0
Wheaton C., Wheaton	456	66	54	ne	81	0	81	0	0	0
Manhattan C.	458	71	112	140	79	0	79	0	0	0
Eastern Washington U.	459	66	62	118	75	0	75	0	0	0
U. Texas, Tyler	459	0	0	0	75	0	75	0	0	0
Youngstown State U.	461	327	321	356	73	21	52	0	0	0
U. Scranton	462	ne	ne	ne	68	0	68	0	0	0
Connecticut C.	463	113	97	229	67	0	67	0	0	0
U. Houston-Downtown	464	0	88	7	64	0	0	0	0	64
U. Hawaii, Maui C.	465	ne	0	ne	61	0	0	61	0	0
U. North Georgia	466	0	2	15	59	2	40	0	17	0
Lawrence Technological U.	467	6	48	132	57	0	0	0	57	0
Western Carolina U.	468	118	0	9	55	32	23	0	0	0
California State Polytechnic U., Humboldt	469	76	7	32	54	0	0	0	54	0
U. Northern Colorado	469	19	83	15	54	0	19	0	35	0
Purdue U., Fort Wayne	471	123	82	56	53	0	53	0	0	0
Sacred Heart U.	471	ne	64	ne	53	0	0	0	0	53
U. of Mary Washington	471	54	75	84	53	0	0	0	53	0
Kean U.	474	0	0	1	52	0	52	0	0	0
Virginia Military Institute	475	ne	ne	55	50	0	50	0	0	0
U. Wisconsin-Platteville	476	36 i	37 i	46 i	49 i	0 i	28 i	0 i	21 i	0 i
Hamilton C.	477	3	8	42	47	0	46	0	1	0
SUNY, Buffalo State U.	477	2	0	0	47	0	0	0	47	0
Elon U.	479	0	0	0	44	0	44	0	0	0
U. of St. Thomas (MN)	480	90	70	52	43	0	43	0	0	0
Pittsburg State U.	481	22	24	27	39	0	39	0	0	0
Citadel Military C. South Carolina	482	0	7	82	36	0	25	0	11	0
Pacific U.	483	29	233	367	34	0	0	0	34	0
Minnesota State U., Mankato	484	2	9	29	33	33	0	0	0	0
Monmouth U.	485	0	15	99	31	0	0	0	31	0
Montana Technological U.	485	97	133	309	31	0	31	0	0	0
U. Alaska, Southeast	487	30	47	25	28	28	0	0	0	0
St. Olaf C.	488	13	3	ne	25	0	0	0	25	0
Hofstra U.	489	4	2	538	24	0	24	0	0	0

TABLE 49

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2023 physical sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Wisconsin-Superior	490	0	0	0	23	0	19	4	0	0
U.S. Coast Guard Academy	491	ne	ne	ne	21	0	21	0	0	0
Mercer U.	492	0	0	0	18	0	0	0	18	0
U. Detroit Mercy	492	0	0	0	18	0	18	0	0	0
U. Virginia's C. Wise	492	ne	18	23	18	0	18	0	0	0
Central Connecticut State U.	495	60	41	64	17	0	17	0	0	0
U. Hartford	495	0	0	0	17	0	0	0	17	0
Indiana State U.	497	160	86	115	16	0	0	0	16	0
Pace U.	497	0	0	38	16	0	16	0	0	0
U. Maryland, Eastern Shore	499	1,243	0	0	15	0	0	0	15	0
U. San Francisco	499	0	84	102	15	15	0	0	0	0
California State U., Channel Islands	501	0	73	77	14	0	14	0	0	0
Lincoln U.	501	ne	ne	ne	14	0	0	0	14	0
U. Baltimore	501	45	45	0	14	0	0	0	0	14
C. of Saint Benedict	504	20 i	10 i	11 i	13 i	0 i	8 i	1 i	4 i	0 i
Oregon Health and Science U.	504	0	0	0	13	0	13	0	0	0
New Mexico Highlands U.	506	541	6 i	9 i	12	0	12	0	0	0
Sul Ross State U.	506	0	6 i	9 i	12	0	0	0	0	12
Azusa Pacific U.	508	12	9	6	9	0	9	0	0	0
Fairfield U.	508	100	74	ne	9	0	0	0	9	0
U. Puerto Rico, Ponce	508	ne	ne	ne	9	0	9	0	0	0
Alfred U.	511	7	5	16	8	8	0	0	0	0
Lake Superior State U.	512	ne	ne	0	7	0	7	0	0	0
U. of Health Sciences and Pharmacy in St. Louis	513	0	0	9	3	0	0	0	3	0
Rutgers, State U. New Jersey, Camden	514	0	0	13	2	0	2	0	0	0
Sonoma State U.	515	123	209	28	1	0	1	0	0	0
Texas Woman's U.	515	49	7	4	1	0	0	0	0	1
William Paterson U.	515	0	0	0	1	0	1	0	0	0
All other surveyed institutions	-	21,544	19,293	20,242	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 \$287,981 thousand in federally financed R&D expenditures in physical sciences in FY 2023.

^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 Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^d The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^e The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2023 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.