

TABLE 39

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
All institutions	-	3,147,841	3,159,520	3,185,923	3,281,251	612,890	1,159,627	1,136,259	372,475
U. California, San Diego	1	186,827	159,294	180,626	201,331	33,205	36,871	131,255	0
Woods Hole Oceanographic Institution	2	132,686	143,179	145,169	143,240	0	0	143,240	0
U. Washington, Seattle	3	118,763	122,167	123,301	135,307	50,737	15,129	65,008	4,433
U. Colorado Boulder	4	128,164	136,586	121,624	119,824	32,942	13,006	2,017	71,859
Texas A&M U., College Station and Health Science Center	5	115,183	115,394	113,459	107,894	5,637	14,392	79,758	8,107
U. Oklahoma, Norman and Health Science Center	6	47,554	63,159	71,836	84,812	75,531	9,281	0	0
Columbia U. in the City of New York	7	84,745	80,240	75,900	78,288	9,965	29,922	38,401	0
Arizona State U.	8	53,751	82,299	83,703	73,544	0	73,544	0	0
U. Alaska, Fairbanks	9	67,711	65,850	69,346	72,609	7,277	34,852	24,396	6,084
U. Hawaii, Manoa	10	90,909	78,170	82,955	71,468	3,840	16,072	49,627	1,929
Colorado State U., Fort Collins	11	122,150	116,804	85,500	67,642	43,063	22,187	3	2,389
Johns Hopkins U. <sup>a</sup>	12	35,624	34,663	42,585	65,556	10,436	26,228	16,698	12,194
U. Wisconsin-Madison	13	52,105	50,280	58,701	65,000	40,482	15,574	0	8,944
U. Texas, Austin	14	64,052	55,302	51,155	61,145	38	47,519	11,098	2,490
U. Maryland <sup>b</sup>	15	na	na	52,823	58,099	28,448	26,350	2,551	750
U. New Hampshire	16	51,592	52,678	48,149	51,661	23,179	6,146	22,336	0
U. Miami	17	63,018	50,321	48,427	50,684	31,048	0	18,881	755
U. Maryland Center for Environmental Science	18	46,312	42,675	43,867	43,554	80	3,719	38,546	1,209
Harvard U.	19	37,409	42,697	43,664	43,505	5,791	10,816	25	26,873
California Institute of Technology	20	33,138	32,030	37,101	43,338	2,539	33,000	114	7,685
U. Rhode Island	21	49,241	47,018	50,513	42,634	0	13,990	19,534	9,110
U. California, Los Angeles	22	35,266	38,361	38,106	41,594	8,368	25,136	0	8,090
Pennsylvania State U., University Park and Hershey Medical Center	23	44,378	50,302	46,390	41,590	19,239	18,116	4,235	0
U. California, Santa Barbara	24	30,714	33,665	35,554	40,396	0	15,783	24,517	96
Oregon State U.	25	45,970	48,616	40,030	39,215	1,848	5,693	22,241	9,433
William & Mary	26	34,067	33,109	32,425	33,084	0	924	32,160	0

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Massachusetts Institute of Technology	27	47,798	41,824	34,015	32,718	8,892	11,897	8,738	3,191
Louisiana State U., Baton Rouge	28	29,452	31,488	31,853	32,283	0	4,269	20,469	7,545
U. Arizona	29	29,723	28,947	31,075	31,148	5,223	22,911	2,390	624
U. California, Davis	30	25,750	27,316	29,166	30,153	3,131	3,248	4,860	18,914
U. Southern Mississippi	31	23,802	18,864	29,968	29,843	0	4,695	9,920	15,228
U. California, Santa Cruz	32	22,218	24,348	26,570	29,389	0	7,332	15,676	6,381
North Carolina State U.	33	19,596	19,819	21,691	27,010	6,860	0	6,576	13,574
Rutgers, State U. New Jersey, New Brunswick	34	25,429	19,173	18,036	25,634	3,068	394	21,523	649
SUNY, Stony Brook U.	35	28,092	25,646	26,282	25,334	172	6,255	18,756	151
U. South Florida, Tampa	36	27,289	26,509	25,127	24,670	0	6,424	18,246	0
U. Maine	37	25,031	22,741	25,039	24,051	0	7,773	16,252	26
Princeton U.	38	25,660	28,636	24,755	23,819	8,301	8,028	4,200	3,290
Desert Research Institute	39	26,941	24,601	23,991	22,889	5,832	17,057	0	0
Florida State U.	40	19,668	20,650	18,343	20,816	5,296	3,047	10,749	1,724
U. Georgia	41	24,163	22,530	23,281	20,493	0	4,006	16,487	0
Stanford U.	42	16,079	18,036	17,624	20,216	0	12,021	2,713	5,482
U. Utah	43	11,668	12,580	27,848	20,011	7,124	12,887	0	0
U. Southern California	44	15,855	16,323	16,850	19,983	0	11,575	5,953	2,455
U. North Carolina, Chapel Hill	45	19,991	19,136	16,922	19,242	0	7,973	6,765	4,504
U. Florida	46	15,350	16,846	17,186	17,740	0	9,403	7,451	886
U. Delaware	47	21,126	20,689	18,346	17,697	0	4,140	9,841	3,716
Mississippi State U.	48	7,270	8,947	10,928	17,335	1,479	12,770	2,970	116
U. Alabama, Huntsville	49	13,866	12,552	16,001	17,304	16,483	664	157	0
Florida International U.	50	10,799	14,800	14,955	16,023	4,262	1,952	9,809	0
SUNY, U. Albany	51	29,115	17,696	15,833	15,523	13,701	1,822	0	0
U. Maryland, Baltimore County	52	22,836	20,275	13,585	15,158	1,988	10,880	1,957	333
U. Nevada, Reno	53	11,868	14,369	14,563	15,077	350	13,839	298	590
U. Michigan, Ann Arbor	54	14,449	14,278	15,705	14,928	0	14,928	0	0
U. Minnesota, Twin Cities	55	14,204	14,248	14,391	14,715	0	14,715	0	0

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Michigan Technological U.	56	13,880	13,885	14,388	13,896	1,604	100	4,153	8,039
San Jose State U.	57	12,216	14,627	12,777	13,747	2,226	159	11,355	7
U. Wyoming	58	10,877	9,473	6,755	12,944	9,925	3,008	0	11
Georgia Institute of Technology	59	11,942	12,380	12,260	12,904	432	12,419	53	0
U. California, Irvine	60	11,305	10,922	11,580	12,705	156	12,549	0	0
Texas A&M U.-Corpus Christi	61	15,697	14,719	13,494	11,900	602	1,074	4,797	5,427
U. Hawaii, system office	62	ne	11,022	10,531	11,853	11,853	0	0	0
Nova Southeastern U.	63	8,692	7,857	8,878	11,436	0	0	11,436	0
U. Massachusetts, Dartmouth	64	10,591	11,084	11,550	10,917	0	2	10,915	0
U. Pittsburgh, Pittsburgh	65	13,116	12,405	13,185	10,875	0	2,622	0	8,253
U. California, Riverside	66	9,611	9,880	10,774	10,855	0	3,680	0	7,175
George Mason U.	67	12,256	11,977	11,598	10,679	3,931	4,485	1,962	301
U. Kansas	68	12,792	11,329	10,594	10,485	605	8,718	549	613
Purdue U., West Lafayette	69	6,031	6,013	7,119	10,166	8,750	0	0	1,416
U. California, Berkeley	70	9,783	11,473	9,429	9,845	34	9,811	0	0
Duke U.	71	11,054	11,171	11,077	9,675	0	2,130	7,545	0
West Virginia U.	72	7,546	7,266	10,049	9,625	0	8,020	0	1,605
Washington State U.	73	10,529	8,441	10,109	9,440	117	2,516	179	6,628
U. Houston	74	6,124	8,002	10,516	9,437	1,992	6,790	435	220
U. Connecticut	75	9,289	10,356	10,974	9,186	0	920	8,266	0
Ohio State U.	76	9,090	9,286	9,030	9,158	0	9,158	0	0
U. Chicago	77	8,850	9,652	9,370	9,090	0	9,090	0	0
Colorado School of Mines	78	10,340	8,380	8,238	8,916	0	7,679	0	1,237
Texas Tech U.	79	6,750	6,583	8,213	8,913	465	5,095	0	3,353
Boston U.	80	6,807	7,105	8,701	8,573	0	8,571	2	0
U. South Carolina, Columbia	81	3,389	1,781	988	8,374	0	233	8,141	0
Cornell U.	82	5,152	6,568	6,531	8,145	1,192	6,874	79	0
Indiana U., Bloomington	83	3,758	5,528	7,220	7,962	2,746	1,653	0	3,563
Montana Technological U.	84	7,222	7,162	7,235	7,825	0	7,825	0	0
Northern Arizona U.	85	4,380	9,714	7,984	7,408	133	4,778	48	2,449
Texas State U.	86	3,211	5,402	7,349	7,357	6	2,792	0	4,559
U. Alaska, Anchorage	87	3,302	5,101	5,186	7,339	215	5,068	1,103	953

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U. Wisconsin-Milwaukee	88	7,236	7,681	6,442	7,288	8	929	6,351	0
U. New Mexico	89	8,233	7,775	7,329	6,924	227	6,671	0	26
U. North Dakota	90	5,793	4,056	6,713	6,781	5,832	949	0	0
New Mexico Institute of Mining and Technology	91	5,733	5,610	6,791	6,729	0	6,729	0	0
U. Oregon	92	3,166	3,785	4,871	6,704	0	6,101	603	0
Naval Postgraduate School	93	7,020	7,227	6,339	6,566	2,087	978	2,862	639
U. Nevada, Las Vegas	94	4,280	4,253	4,526	6,342	188	5,458	0	696
U. Illinois, Urbana-Champaign	95	6,303	7,272	6,868	6,281	3,619	2,662	0	0
Southern Methodist U.	96	6,620	5,941	6,954	6,100	0	6,100	0	0
U. Virginia, Charlottesville	97	5,916	4,785	5,352	6,040	125	0	0	5,915
Brown U.	98	3,540	4,306	4,310	5,954	98	1,901	193	3,762
Yale U.	99	6,448	7,613	6,995	5,916	0	5,916	0	0
U. Montana, Missoula	100	3,068	5,035	6,376	5,878	0	2,668	3,210	0
Florida A&M U.	101	2,942	3,701	5,282	5,844	0	0	5,140	704
Boston C.	102	6,058	5,533	5,130	5,836	4,786	1,050	0	0
U. Toledo	103	5,178	4,189	5,659	5,748	0	5,239	0	509
Montana State U., Bozeman	104	5,757	5,125	5,618	5,603	0	3,893	0	1,710
Washington U., Saint Louis	105	6,642	5,045	5,676	5,509	0	5,509	0	0
U. Memphis	106	4,132	4,629	4,117	5,493	0	5,493	0	0
U. Puerto Rico, Mayaguez	107	6,403	5,475	5,676	5,487	0	517	4,970	0
Michigan State U.	108	3,277	3,779	5,244	5,435	0	5,199	0	236
U. Louisiana, Lafayette	109	4,333	3,290	3,957	5,426	0	4,367	1,059	0
New Mexico State U.	110	3,856	4,939	3,908	5,381	135	2,500	0	2,746
U. Tennessee, Knoxville <sup>c</sup>	111	4,722	5,752	5,557	5,322	0	3,641	0	1,681
Dartmouth C. and Dartmouth Hitchcock Medical Center	112	4,904	4,771	4,359	5,241	0	5,241	0	0
U. North Carolina, Wilmington	113	4,558	4,511	5,193	5,206	0	244	4,688	274
Rice U.	114	5,491	3,958	4,341	5,152	0	5,152	0	0
U. South Alabama	115	4,020	4,186	4,222	5,011	0	90	4,921	0
U. Idaho	116	5,241	5,244	5,923	4,933	137	4,725	0	71
Tulane U.	117	3,409	3,753	4,317	4,825	0	4,825	0	0

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East Carolina U.	118	738	4,433	3,684	4,586	0	823	3,763	0
Iowa State U.	119	3,178	3,659	3,917	4,538	0	4,538	0	0
San Francisco State U.	120	4,197	3,233	4,297	4,450	172	388	3,890	0
U. Massachusetts, Amherst	121	3,966	5,215	6,569	4,265	1,437	2,828	0	0
Old Dominion U.	122	5,214	5,151	4,907	4,166	0	0	4,166	0
Northeastern U.	123	4,082	4,296	4,603	4,039	0	429	3,610	0
U. Central Florida	124	7,400	5,039	4,486	4,008	3,991	17	0	0
Western Washington U.	125	2,931	3,802	3,822	3,897	0	2,473	1,424	0
U. Massachusetts, Boston	126	6,587	6,451	5,249	3,848	98	1,370	2,364	16
U. Puerto Rico, Rio Piedras	127	2,203	2,192	2,537	3,754	0	3,754	0	0
SUNY, U. Buffalo	128	4,212	4,479	3,533	3,739	0	3,739	0	0
Boise State U.	129	4,814	5,633	3,536	3,660	110	3,409	123	18
U. of the Virgin Islands	130	420	542	830	3,639	0	296	3,343	0
Stevens Institute of Technology	131	5,324	3,931	3,365	3,527	699	0	351	2,477
U. Arkansas, Fayetteville	132	3,792	4,287	4,449	3,499	0	3,135	0	364
Auburn U., Auburn	133	3,820	2,171	2,690	3,460	62	2,513	0	885
Hampton U.	134	4,080	4,022	3,779	3,454	3,003	0	359	92
U. Maryland, Eastern Shore	134	5,287	2,775	4,369	3,454	0	0	3,454	0
U. Texas, El Paso	136	2,948	2,566	3,168	3,426	0	3,392	0	34
Morgan State U.	137	4,984	4,372	3,955	3,384	0	3,384	0	0
Tarleton State U.	138	4,059	4,903	3,504	3,188	0	599	0	2,589
U. Rochester	139	2,696	2,702	2,765	3,104	0	3,104	0	0
Virginia Polytechnic Institute and State U.	140	4,503	3,867	4,185	3,068	61	3,007	0	0
U. Alabama, Tuscaloosa	141	828	895	1,000	3,062	0	3,062	0	0
Syracuse U.	142	3,940	3,766	3,913	3,060	0	3,060	0	0
U. Kentucky	143	2,608	2,385	2,331	2,966	0	2,966	0	0
U. California, Merced	144	2,459	3,165	2,916	2,943	0	2,943	0	0
U. Nebraska, Lincoln	144	4,374	4,014	3,639	2,943	0	2,943	0	0
Grand Valley State U.	146	3,089	3,124	2,818	2,887	0	18	0	2,869
Oklahoma State U., Stillwater	147	2,889	4,546	2,613	2,870	0	2,870	0	0
Rensselaer Polytechnic Institute	148	1,873	2,601	1,931	2,837	0	2,837	0	0
Stockton U.	149	ne	2,171	2,484	2,789	0	403	2,295	91
U. Vermont	150	141	446	772	2,716	1,508	937	233	38

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U. Guam	151	2,578	2,548	2,753	2,696	0	355	2,241	100
U. Minnesota, Duluth	152	1,166	1,245	3,466	2,480	0	2,480	0	0
U. Iowa	153	2,434	2,113	2,088	2,441	0	1,196	0	1,245
U. Texas, San Antonio	154	1,018	1,087	1,178	2,354	0	1,873	0	481
Florida Institute of Technology	155	1,815	2,559	2,096	2,310	18	0	2,292	0
San Diego State U.	156	3,091	2,978	2,582	2,234	0	1,322	517	395
Portland State U.	157	1,999	2,094	2,090	2,212	226	1,810	171	5
Baylor U.	158	2,070	2,573	2,685	2,185	275	1,343	345	222
U. Massachusetts, Lowell	159	787	1,938	1,977	2,177	1,038	1,139	0	0
California State U., Northridge	160	1,993	1,859	1,832	2,158	0	467	625	1,066
U. Washington, Tacoma	161	746	1,452	1,827	2,089	0	0	2,089	0
U. North Texas, Denton	162	698	747	1,444	2,064	0	2,064	0	0
Temple U.	163	1,229	1,721	1,559	2,044	0	2,044	0	0
Southern Illinois U., Edwardsville	164	1,496	1,987	1,383	1,979	0	1,623	0	356
Vanderbilt U. and Vanderbilt U. Medical Center	165	3,608	3,355	1,586	1,919	0	1,919	0	0
SUNY, Binghamton U.	166	1,884	2,108	2,026	1,916	196	1,658	0	62
Bowling Green State U.	167	657	723	1,112	1,903	0	473	1,430	0
Clark U.	168	909	1,052	1,787	1,890	0	1,781	109	0
Idaho State U.	169	2,963	2,913	1,447	1,792	0	941	0	851
U. Texas Rio Grande Valley	170	1,122	1,280	2,049	1,769	0	27	1,640	102
U. Pennsylvania	171	1,935	1,266	2,455	1,760	0	1,760	0	0
CUNY, City C.	172	1,438	2,113	2,459	1,699	0	1,699	0	0
Ohio U.	173	2,232	1,400	1,618	1,697	134	1,563	0	0
Coastal Carolina U.	174	1,617	1,301	1,573	1,690	573	0	1,117	0
Florida Gulf Coast U.	175	555	1,032	877	1,654	0	0	1,654	0
Monmouth U.	176	ne	ne	1,082	1,621	0	0	1,621	0
U. New Orleans	177	2,488	2,356	1,778	1,585	0	1,585	0	0
Central Washington U.	178	2,143	1,779	2,110	1,525	0	1,525	0	0
Lehigh U.	179	1,144	1,166	1,191	1,510	0	1,421	0	89
Rutgers, State U. New Jersey, Newark	180	2,525	3,312	3,313	1,485	0	1,485	0	0
Kansas State U.	181	2,184	2,574	2,337	1,479	0	1,479	0	0
Humboldt State U.	182	4,584	2,660	1,490	1,464	253	365	797	49

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Western Michigan U. and Homer Stryker M.D. School of Medicine	183	1,575	1,278	1,546	1,402	0	1,402	0	0
Miami U.	184	514	1,241	1,031	1,354	0	1,354	0	0
Northwestern U.	185	1,821	1,627	1,547	1,351	0	1,351	0	0
CUNY, Hunter C.	186	794	1,297	1,147	1,339	0	1,339	0	0
Embry-Riddle Aeronautical U.	187	189	1,475	818	1,336	1,336	0	0	0
California State U., Monterey Bay	188	740	922	1,327	1,281	0	630	587	64
Indiana U.-Purdue U., Indianapolis	189	1,164	1,266	926	1,277	0	1,277	0	0
Montclair State U.	190	1,024	1,128	1,685	1,262	0	982	259	21
SUNY, C. of Environmental Science and Forestry	191	1,264	1,131	554	1,211	207	771	174	59
Alaska Pacific U.	192	781	1,210	1,406	1,196	0	0	1,114	82
Florida Atlantic U.	193	405	1,017	1,149	1,186	284	4	0	898
Saint Louis U.	194	1,453	1,161	1,281	1,174	0	1,174	0	0
U. Cincinnati	195	1,377	1,439	1,143	1,171	0	1,171	0	0
U. Mississippi	196	1,678	1,797	1,726	1,151	88	453	610	0
Heidelberg U.	197	408	911	1,222	1,125	0	0	1,125	0
California Polytechnic State U., San Luis Obispo	198	882	1,410	1,362	1,105	0	0	1,105	0
Georgia State U.	199	971	1,070	1,268	1,104	0	1,104	0	0
Occidental C.	200	133	573	817	1,086	0	89	997	0
Emory U.	201	1,391	1,675	1,237	1,075	0	0	0	1,075
C. Charleston	202	1,424	1,365	1,212	1,048	117	593	338	0
Northwest Indian C.	203	ne	466	1,043	1,033	287	291	455	0
California State U., East Bay	204	ne	ne	ne	1,029	0	1,029	0	0
U. Illinois, Chicago	205	650	653	701	1,021	0	1,021	0	0
U. North Carolina, Charlotte	206	207	366	1,111	1,009	0	1,009	0	0
U. Missouri, Columbia	207	1,481	1,005	1,335	988	0	964	0	24
Rockefeller U.	208	1,086	1,052	974	986	0	0	0	986
Kent State U.	209	940	1,022	942	958	199	692	3	64
U. New England	210	1,526	1,092	1,405	936	0	0	936	0
South Dakota State U.	211	5,600	3,991	1,933	904	0	904	0	0
SUNY, Buffalo State	212	960	915	1,050	895	0	234	0	661
U. Hawaii, Hilo	213	528	785	842	894	104	381	409	0
Salisbury U.	214	1,165	1,274	1,334	891	0	786	0	105
U. Texas, Arlington	215	1,385	1,275	1,289	877	0	877	0	0

TABLE 39

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. West Florida	216	42	189	138	875	0	875	0	0
Carleton C.	217	304	292	1,607	863	0	863	0	0
U. Texas, Dallas	218	920	938	907	856	0	856	0	0
Texas A&M U.-Kingsville	219	1,417	1,368	942	849	18	0	0	831
Southern Illinois U., Carbondale	220	1,182	1,271	1,354	848	9	345	0	494
Western Kentucky U.	221	1,270	1,175	979	842	18	823	0	1
California State U., Sacramento	222	798	934	909	839	0	839	0	0
Villanova U.	223	437	824	809	826	64	762	0	0
SUNY, C. Plattsburgh	224	521	476	850	824	10	0	814	0
Wesleyan U.	225	294	512	444	821	0	821	0	0
CUNY, Queens C.	226	541	414	427	817	0	817	0	0
Illinois State U.	227	546	474	809	791	0	791	0	0
U.S. Naval Academy	228	531	1,110	1,079	775	0	0	775	0
James Madison U.	229	745	678	1,003	753	0	658	0	95
Air Force Institute of Technology	230	2,365	1,792	967	742	742	0	0	0
Roger Williams U.	231	753	913	700	730	0	0	616	114
Savannah State U.	232	479	591	633	728	0	247	328	153
Georgia Southern U.	233	476	259	774	719	44	147	528	0
Towson U.	234	528	650	653	709	0	709	0	0
U. Alabama, Birmingham	235	1,496	1,199	870	701	701	0	0	0
Central Michigan U.	236	501	644	661	677	121	404	149	3
Delaware State U.	237	980	956	633	654	161	0	493	0
CUNY, Brooklyn C.	238	784	625	631	645	0	528	117	0
American U.	239	396	511	482	642	0	0	0	642
Bowdoin C.	240	301	562	507	635	0	63	572	0
Skidmore C.	241	103	495	762	632	0	577	0	55
U. Colorado Denver and Anschutz Medical Campus	242	477	3,256	2,200	612	582	30	0	0
Austin Peay State U.	243	131	56	14	596	0	596	0	0
Duquesne U.	244	109	77	84	584	0	584	0	0
William Paterson U.	245	216	156	299	579	0	579	0	0
Sonoma State U.	246	ne	ne	ne	571	0	38	72	461
North Dakota State U.	247	612	296	714	553	0	553	0	0
Northern Illinois U.	247	290	568	395	553	0	354	0	199
New School	249	6	330	800	537	0	44	0	493
St. Edward's U.	250	1,583	440	1,077	528	418	10	0	100
CUNY, York C.	251	ne	ne	85	527	0	527	0	0
Case Western Reserve U.	252	877	789	591	523	0	523	0	0

TABLE 39

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
California State U., Long Beach	253	276	209	125	514	0	514	0	0
Utah State U.	254	1,431	1,836	1,150	511	408	103	0	0
Appalachian State U.	255	1,268	945	583	499	238	205	56	0
Loyola Marymount U.	256	297	805	761	489	0	66	0	423
Tufts U.	257	212	1,151	482	472	148	299	20	5
Creighton U.	258	0 i	474 i	539 i	465 i	465 i	0 i	0 i	0 i
Brigham Young U., Provo	259	627	302	567	461	0	461	0	0
Colgate U.	260	520	765	511	453	0	299	0	154
Carnegie Mellon U.	261	1,228	1,599	994	448	182	0	0	266
Amherst C.	262	92	74	169	439	0	439	0	0
George Washington U.	263	821	716	288	436	0	253	0	183
Rowan U.	264	172	481	451	409	0	409	0	0
New York U.	265	468	361	434	401	0	279	122	0
Illinois Institute of Technology	266	269	416	246	398	275	123	0	0
California State U., Chico	267	131	160	140	395	0	395	0	0
Stonehill C.	268	ne	ne	ne	393	0	0	393	0
Macalester C.	269	420	210	427	390	248	122	0	20
U. Washington, Bothell	270	485	116	462	371	318	0	53	0
U. Dayton	271	77	225	428	359	252	107	0	0
Virginia Commonwealth U.	272	1,220	1,196	871	354	0	0	0	354
SUNY, C. Brockport	273	206	85	396	353	0	353	0	0
Long Island U.	274	0	0	40	345	0	345	0	0
California State U., Fullerton	275	364	693	420	329	0	300	29	0
North Carolina Central U.	276	395	287	303	321	0	321	0	0
Oregon Institute of Technology	277	0 i	0 i	358 i	312 i	0 i	256 i	0 i	56 i
U. Missouri, Kansas City	278	582	495	402	308	0	188	0	120
Kean U.	279	ne	ne	ne	301	0	301	0	0
Fort Hays State U.	280	ne	ne	331	298	0	261	0	37
Western Carolina U.	281	637	489	494	297	0	39	258	0
U. Northern Colorado	282	42	74	140	296	0	296	0	0
Wayne State U.	282	235	339	412	296	0	296	0	0
U. Akron	284	244	187	192	285	0	285	0	0
Pomona C.	285	453	131	236	274	0	134	0	140
Bryn Mawr C.	286	401	268	185	260	0	260	0	0
Marshall U.	287	58	39	164	258	0	0	0	258

TABLE 39

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Southern Connecticut State U.	288	267	109	168	253	0	88	165	0
Pennsylvania State U., Behrend	289	1,885	1,034	1,154	250	11	11	228	0
Texas Christian U.	290	204	168	178	248	0	246	2	0
Middlebury C.	291	512	260	270	240	0	240	0	0
SUNY, Geneseo	292	421	301	298	239	0	239	0	0
Franklin and Marshall C.	293	215	355	710	232	0	162	70	0
Haverford C.	294	0	154	229	229	0	27	202	0
U. Minnesota, Morris	295	229	ne	216	227	0	227	0	0
U. Wisconsin-Stevens Point	296	189	201	214	226	0	226	0	0
Howard U.	297	1,101	618	248	225	0	0	225	0
U. Alaska, Southeast	298	526	424	309	222	0	44	178	0
Hawaii Pacific U.	299	371	318	324	220	0	38	37	145
West Texas A&M U.	300	161	191	434	219	130	0	0	89
St. Cloud State U.	301	1	12	13	217	9	208	0	0
U. Tulsa	302	279	223	112	213	0	137	0	76
Chapman U.	303	209	274	231	212	0	0	0	212
Lewis and Clark C.	303	225	195	294	212	91	119	0	2
Wright State U.	305	594	570	312	210	0	210	0	0
CUNY, Baruch C.	306	190	135	79	198	0	30	168	0
Des Moines U.	307	124	162	82	197	0	197	0	0
Williams C.	308	189	180	205	195	0	186	0	9
Colby C.	309	81	122	152	193	0	193	0	0
Jackson State U.	310	2,130	1,562	1,794	189	0	0	0	189
New Mexico Highlands U.	310	0	70	ne	189	0	189	0	0
Texas Southern U.	310	176	0	140	189	13	0	0	176
U. Louisville	313	152	192	197	180	37	143	0	0
Stephen F. Austin State U.	314	216	342	292	177	0	174	0	3
California State U., Bakersfield	315	243	299	262	176	0	176	0	0
Elizabeth City State U.	315	96	146	ne	176	0	176	0	0
U. Colorado Colorado Springs	317	124	55	79	173	26	13	134	0
Eastern Michigan U.	318	397	505	399	172	77	95	0	0
U. Denver	319	99	108	186	168	0	168	0	0
U. San Diego	320	1,122	583	185	163	0	0	163	0
Indiana U. Pennsylvania	321	192	233	497	161	7	154	0	0
Wellesley C.	321	0	30	154	161	1	160	0	0
Providence C.	323	8	103	166	160	0	0	160	0

TABLE 39

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Union C., Schenectady	324	312	625	189	154	0	154	0	0
Hobart and William Smith Colleges	325	218	ne	118	148	137	11	0	0
California State U., Fresno	326	100	113	125	147	0	147	0	0
U. New Haven	327	0	185	152	143	97	0	46	0
U. Northern Iowa	328	174	165	161	142	0	0	0	142
U. Puerto Rico, Medical Sciences Campus	329	0	0	29	136	0	136	0	0
Murray State U.	330	193	181	120	134	0	134	0	0
U. North Georgia	331	134	121	129	133	1	61	0	71
Wheaton C., Wheaton	332	15	49	136	130	0	130	0	0
Central State U.	333	45	122	163	126	0	126	0	0
Midwestern State U.	334	ne	ne	ne	125	0	125	0	0
Loyola U., Chicago	335	13	16	13	121	0	121	0	0
Indiana State U.	336	94	42	199	120	0	120	0	0
Bates C.	337	167	100	119	119	0	119	0	0
U. South Carolina, Aiken	337	233	43	0	119	0	40	79	0
Dickinson C.	339	21	ne	31	106	0	105	0	1
U. San Francisco	339	187	295	194	106	77	29	0	0
CUNY, Advanced Science Research Center	341	446	1,442	3	104	0	2	102	0
Eastern Connecticut State U.	342	123	110	22	101	0	17	84	0
U.S. Military Academy	343	215	245	111	98	0	0	0	98
U. of Mary Washington	344	ne	25	17	97	0	97	0	0
Colorado C.	345	160	58	109	96	0	96	0	0
Missouri State U.	346	99	133	34	95	0	95	0	0
U. Houston-Downtown	347	6	8	27	94	0	94	0	0
U. Wisconsin-Oshkosh	347	88 i	92 i	91 i	94 i	0 i	94 i	0 i	0 i
Oberlin C.	349	500	224	157	93	0	93	0	0
Central Connecticut State U.	350	91	ne	61	91	0	91	0	0
DePaul U.	350	11	27	37	91	0	91	0	0
Northern Michigan U.	350	55	207	155	91	0	84	0	7
Weber State U.	350	ne	ne	ne	91	0	91	0	0
U. Wisconsin-Green Bay	354	78 i	66 i	92 i	90 i	0 i	90 i	0 i	0 i

TABLE 39

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Bucknell U.	355	98 i	102	94	89 i	0 i	89 i	0 i	0 i
California State U., San Bernardino	356	72	40	118	87	0	87	0	0
Albion C.	357	64	80	53	84	0	84	0	0
Louisiana Tech U.	357	84	76	77	84	0	0	0	84
Texas A&M International U.	357	152	232	96	84	0	84	0	0
U. North Carolina, Asheville	357	545	412	128	84	16	68	0	0
SUNY, Oswego	361	39	63	52	73	23	50	0	0
Sam Houston State U.	362	13	31	86	72	0	72	0	0
U. Wisconsin-Platteville	363	0 i	ne	70 i	71 i	5 i	43 i	0 i	23 i
California State Polytechnic U., Pomona	364	393	319	295	68	0	8	0	60
Benedict C.	365	439	532	157	66	0	45	21	0
West Chester U. Pennsylvania	366	87	77	60	65	0	65	0	0
Prairie View A&M U.	367	0	0	57	62	0	5	0	57
U. Richmond	367	75	49	49	62	0	62	0	0
Barnard C.	369	21	24	9	60	0	50	10	0
Tennessee Technological U.	369	27	56	74	60	0	60	0	0
C. Wooster	371	110	103	120	59	0	59	0	0
Clarkson U.	371	0	0	4	59	0	59	0	0
Eastern Washington U.	373	45	45	66	58	0	58	0	0
Fort Lewis C.	374	ne	ne	22	56	0	46	0	10
Trinity U.	374	125	46	113	56	0	56	0	0
Northeastern Illinois U.	376	200	150	131	50	0	50	0	0
Troy U.	377	ne	ne	ne	49	2	0	47	0
Middle Tennessee State U.	378	183	134	500	48	0	9	0	39
California State U., San Marcos	379	0	379	0	47	0	0	0	47
Furman U.	379	132	121	16	47	0	47	0	0
U. Louisiana, Monroe	381	147	33	307	46	39	0	0	7
Andrews U.	382	ne	ne	64	45	0	45	0	0
Wichita State U.	383	82	36	25	44	0	44	0	0
Mercyhurst U.	384	147 i	ne	41 i	42 i	0 i	42 i	0 i	0 i
Seattle U.	384	0	4	37	42	0	0	42	0
U. Southern Maine	384	0	3	41	42	0	0	42	0
U. of the District of Columbia	387	189	102	84	41	0	41	0	0

TABLE 39

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
CUNY, system office	388	54	144	148	39	39	0	0	0
St. Olaf C.	389	8	13	102	38	14	0	24	0
Clafin U.	390	101	138	259	37	37	0	0	0
CUNY, Lehman C.	390	33	37	0	37	0	37	0	0
Saginaw Valley State U.	392	3	30	11	36	0	4	0	32
Smith C.	392	64	69	117	36	0	36	0	0
Calvin U.	394	13	2	37	35 i	0 i	35 i	0 i	0 i
U. Wisconsin-La Crosse	394	34	25	31	35	0	35	0	0
North Carolina Agricultural and Technical State U.	396	230	135	129	31	0	0	0	31
U. Wisconsin-Superior	397	ne	34	25	30	0	30	0	0
Claremont McKenna C.	398	88	93	173	29	0	0	29	0
Suffolk U.	399	0 i	ne	ne	28	0	0	28	0
Gettysburg C.	400	108	130	209	25	0	25	0	0
Whitman C.	401	ne	ne	52	23	0	23	0	0
Sul Ross State U.	402	2	2	0	22	0	22	0	0
Hope C.	403	0	0	0	20	0	20	0	0
U. Central Arkansas	403	5	4	0	20	0	20	0	0
Albany State U.	405	27	288	18	19	15	0	0	4
Dakota State U.	406	0	0	0	18	0	18	0	0
U. Nebraska, Omaha	406	86	113	7	18	0	18	0	0
U. of St. Thomas (MN)	406	85	56	15	18	0	18	0	0
Western Illinois U.	406	96	93	6	18	0	18	0	0
Keene State C.	410	101	ne	39	16	0	0	16	0
Morehead State U.	410	13	22	7	16	0	7	0	9
Hamilton C.	412	87	29	72	15	0	9	0	6
California State U., Dominguez Hills	413	4	13	7	13	0	0	0	13
Brandeis U.	414	0 i	0	0	12	0	0	0	12
C. of Saint Benedict	415	17	12	12 i	11 i	0 i	0 i	0 i	11 i
Gallaudet U.	416	109	56	71	10	4	0	6	0
Saint John's U., Collegeville	416	15	11	11 i	10 i	0 i	0 i	0 i	10 i
U. North Florida	416	128	132	144	10	0	0	0	10
Ball State U.	419	22	91	57	9	0	9	0	0
Lafayette C.	420	30	13	0	8	0	8	0	0
U. Wisconsin-Eau Claire	420	62	1	8	8	0	8	0	0
Ithaca C.	422	ne	ne	ne	6	0	0	4	2

TABLE 39

**Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020**

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Pennsylvania State U., Harrisburg	423	0	0	11	5	2	3	0	0
U. Nebraska, Kearney	423	0	0	0	5	0	5	0	0
U. South Dakota	423	304	78	87	5	0	5	0	0
Eastern Kentucky U.	426	11	21	7	4	0	0	0	4
Hofstra U.	426	20	9	20	4	0	0	0	4
Willamette U.	426	75	43	14	4	0	0	4	0
U. Texas, Tyler	429	8	8	4	2	0	2	0	0
Youngstown State U.	429	6	5	9	2	0	2	0	0
Alfred U.	431	0	0	0	1	0	0	0	1
Biola U.	431	0 i	0 i	0 i	1 i	1 i	0 i	0 i	0 i
California State U., Stanislaus	431	1	0	0	1	0	1	0	0
CUNY, Medgar Evers C.	431	49	0	0	1	0	1	0	0
Fairfield U.	431	0	0	0	1	0	0	1	0
Minnesota State U., Mankato	431	0	62	32	1	0	1	0	0
U. Puget Sound	431	5	ne	ne	1	0	1	0	0
All other surveyed institutions	-	56,382	54,880	4,265	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.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$48,009 thousand imputed for total R&D expenditures in geosciences, atmospheric sciences, and ocean sciences in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> 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.

<sup>c</sup> 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.