

TABLE 40

Federally financed 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	-	2,042,291	2,048,266	2,067,199	2,109,065	471,158	696,991	713,086	227,830
U. California, San Diego	1	107,931	88,060	120,294	128,962	18,765	14,448	95,749	0
U. Colorado Boulder	2	126,077	132,846	119,659	116,177	31,353	11,984	1,783	71,057
Woods Hole Oceanographic Institution	3	96,228	110,718	112,979	115,744	0	0	115,744	0
U. Washington, Seattle	4	96,441	96,422	100,000	114,555	47,189	12,992	52,751	1,623
Texas A&M U., College Station and Health Science Center	5	85,959	88,535	86,781	82,072	4,294	5,638	67,625	4,515
U. Oklahoma, Norman and Health Science Center	6	26,948	43,991	54,007	64,742	61,762	2,980	0	0
Johns Hopkins U. ^a	7	32,162	29,412	37,235	59,766	9,821	24,023	15,714	10,208
Colorado State U., Fort Collins	8	103,710	100,566	70,266	55,722	37,459	15,997	0	2,266
Arizona State U.	9	36,248	52,476	59,778	54,650	0	54,650	0	0
U. Alaska, Fairbanks	10	51,687	50,997	50,566	54,408	3,768	28,241	18,397	4,002
Columbia U. in the City of New York	11	70,875	65,302	61,544	54,388	6,728	18,266	29,394	0
U. Maryland ^b	12	na	na	46,763	51,008	27,759	21,932	1,108	209
U. Hawaii, Manoa	13	60,762	55,156	58,526	47,728	2,713	10,979	32,445	1,591
U. New Hampshire	14	40,472	38,709	36,870	41,304	20,334	4,665	16,305	0
U. Miami	15	39,797	36,182	36,297	39,430	29,601	0	9,265	564
U. Wisconsin-Madison	16	38,139	36,826	36,615	35,879	25,417	7,018	0	3,444
Oregon State U.	17	38,438	41,429	34,363	33,730	1,784	5,332	17,775	8,839
Harvard U.	18	23,670	26,892	27,835	28,723	3,995	5,080	0	19,648
U. California, Los Angeles	19	22,572	26,061	24,970	27,134	5,723	20,206	0	1,205
California Institute of Technology	20	22,811	22,753	25,436	27,071	2,155	21,406	114	3,396
U. Rhode Island	21	29,316	28,307	32,874	25,349	0	3,967	15,347	6,035
Pennsylvania State U., University Park and Hershey Medical Center	22	27,849	31,354	28,218	24,605	11,800	9,771	3,034	0
U. Southern Mississippi	23	8,841	9,366	21,324	21,092	0	4,445	6,056	10,591
U. Texas, Austin	24	28,732	23,228	19,745	20,523	0	15,644	3,066	1,813
Massachusetts Institute of Technology	25	32,656	27,772	22,382	20,477	6,726	7,339	4,852	1,560
U. California, Santa Barbara	26	12,659	13,504	14,799	16,190	0	7,424	8,766	0
Princeton U.	27	16,845	17,747	15,933	16,105	7,404	3,621	4,200	880
Rutgers, State U. New Jersey, New Brunswick	28	11,804	14,353	11,993	16,060	1,668	265	13,878	249
Desert Research Institute	29	18,607	17,665	16,557	15,748	3,261	12,487	0	0
U. California, Santa Cruz	30	11,115	11,487	12,725	15,234	0	3,023	7,967	4,244

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U. Alabama, Huntsville	31	9,957	10,004	12,920	14,123	13,390	577	156	0
Mississippi State U.	32	5,184	5,817	7,793	13,635	289	10,979	2,260	107
U. Arizona	33	13,967	13,117	13,372	13,625	1,967	10,393	1,068	197
North Carolina State U.	34	14,270	12,401	12,946	13,202	6,178	0	1,107	5,917
U. North Carolina, Chapel Hill	35	12,952	11,903	11,158	12,873	0	5,687	3,247	3,939
U. Maryland, Baltimore County	36	15,821	14,629	10,807	12,497	1,907	9,704	562	324
William & Mary	37	14,248	14,448	14,272	12,158	0	397	11,761	0
U. Hawaii, system office	38	ne	11,020	10,531	11,673	11,673	0	0	0
U. Utah	39	5,696	7,255	15,150	11,112	3,911	7,201	0	0
SUNY, Stony Brook U.	40	13,576	11,179	11,996	10,824	0	4,223	6,601	0
U. Delaware	41	13,435	12,351	10,066	10,785	0	2,972	5,281	2,532
U. South Florida, Tampa	42	11,313	10,896	10,880	10,327	0	2,203	8,124	0
U. Wyoming	43	10,112	5,959	5,473	10,107	8,622	1,474	0	11
Florida International U.	44	3,502	8,001	7,987	9,463	2,098	644	6,721	0
George Mason U.	45	10,192	10,804	9,912	9,390	3,276	4,034	1,799	281
U. California, Irvine	46	8,557	8,857	9,510	9,301	0	9,301	0	0
U. Southern California	47	12,250	10,908	10,664	9,079	0	7,569	1,510	0
U. Maine	48	10,917	10,472	9,385	9,064	0	1,623	7,436	5
Stanford U.	49	7,247	8,710	7,690	8,906	0	6,823	1,389	694
Florida State U.	50	9,068	8,332	8,123	8,871	1,526	987	5,176	1,182
U. Chicago	51	7,125	8,644	8,639	8,514	0	8,514	0	0
U. Florida	52	8,741	10,165	9,497	8,484	0	6,666	1,476	342
U. Maryland Center for Environmental Science	53	9,805	7,064	8,301	8,462	0	252	7,535	675
Louisiana State U., Baton Rouge	54	6,967	7,956	7,883	8,178	0	1,218	5,188	1,772
U. Michigan, Ann Arbor	55	7,018	7,281	8,070	8,059	0	8,059	0	0
Michigan Technological U.	56	7,868	8,473	8,715	8,015	1,322	0	2,225	4,468
Georgia Institute of Technology	57	8,038	8,340	7,822	7,862	0	7,862	0	0
San Jose State U.	58	8,697	10,336	8,618	7,847	1,855	156	5,836	0
U. Minnesota, Twin Cities	59	7,797	7,622	8,058	7,624	0	7,624	0	0
U. Pittsburgh, Pittsburgh	60	9,002	8,521	8,568	7,374	0	1,222	0	6,152
U. Connecticut	61	5,272	5,866	6,674	7,020	0	744	6,276	0
U. California, Davis	62	7,610	6,596	6,459	7,014	1,093	2,135	532	3,254
SUNY, U. Albany	63	20,856	8,969	6,728	6,953	6,031	922	0	0
U. Nevada, Reno	64	6,677	6,940	6,263	6,910	216	5,958	222	514
Ohio State U.	65	5,966	6,182	6,216	6,489	0	6,489	0	0
Boston U.	66	4,460	5,287	5,898	6,447	0	6,447	0	0
U. Alaska, Anchorage	67	2,666	4,355	4,476	6,432	206	4,537	854	835
Cornell U.	68	4,297	5,072	4,796	6,428	926	5,474	28	0

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West Virginia U.	69	4,172	3,992	6,255	6,352	0	5,742	0	610
New Mexico Institute of Mining and Technology	70	5,012	5,010	6,235	6,328	0	6,328	0	0
U. Georgia	71	8,053	6,109	6,855	6,304	0	322	5,982	0
Naval Postgraduate School	72	6,176	5,993	5,268	6,300	2,024	782	2,855	639
U. New Mexico	73	7,393	6,957	6,674	6,249	227	6,002	0	20
Duke U.	74	7,792	6,987	7,079	6,194	0	1,603	4,591	0
Northern Arizona U.	75	3,673	7,751	6,805	5,975	133	3,803	37	2,002
U. California, Berkeley	76	6,627	6,670	5,638	5,816	0	5,816	0	0
U. Illinois, Urbana-Champaign	77	5,591	6,121	5,967	5,419	3,265	2,154	0	0
Nova Southeastern U.	78	3,394	3,210	3,515	5,381	0	0	5,381	0
Florida A&M U.	79	2,766	3,458	4,945	5,329	0	0	4,765	564
Washington State U.	80	5,318	4,276	4,767	5,323	26	1,567	0	3,730
U. Oregon	81	2,460	3,286	4,038	5,073	0	4,487	586	0
Washington U., Saint Louis	82	6,269	4,750	5,192	5,000	0	5,000	0	0
U. California, Riverside	83	5,160	4,555	4,237	4,821	0	2,359	0	2,462
U. Kansas	84	7,205	4,879	3,873	4,622	570	3,268	213	571
Colorado School of Mines	85	4,075	4,025	4,981	4,424	0	3,961	0	463
Purdue U., West Lafayette	86	3,128	3,140	3,042	4,079	4,079	0	0	0
U. Virginia, Charlottesville	87	3,264	2,870	3,896	4,059	0	0	0	4,059
Southern Methodist U.	88	3,627	3,324	4,100	4,026	0	4,026	0	0
U. Puerto Rico, Mayaguez	89	4,339	4,246	3,975	3,896	0	485	3,411	0
U. South Carolina, Columbia	90	1,754	1,079	983	3,889	0	0	3,889	0
Boston C.	91	4,494	4,067	3,209	3,871	3,352	519	0	0
New Mexico State U.	92	2,465	3,752	2,797	3,870	22	1,397	0	2,451
U. North Dakota	93	3,947	1,958	3,056	3,730	3,220	510	0	0
Texas A&M U.-Corpus Christi	94	5,153	5,216	4,273	3,609	338	476	1,598	1,197
U. Nevada, Las Vegas	95	2,788	2,578	2,543	3,541	174	3,031	0	336
Hampton U.	96	4,080	4,022	3,779	3,454	3,003	0	359	92
U. Maryland, Eastern Shore	96	5,266	2,775	4,369	3,454	0	0	3,454	0
Brown U.	98	2,192	2,166	2,488	3,436	75	917	192	2,252
Morgan State U.	99	4,984	4,372	3,955	3,351	0	3,351	0	0
Texas Tech U.	100	2,537	2,326	2,843	3,340	207	2,623	0	510
U. Toledo	101	3,154	2,773	3,474	3,227	0	3,227	0	0
U. Montana, Missoula	102	1,610	2,393	2,967	3,195	0	1,818	1,377	0

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Montana State U., Bozeman	103	4,188	4,787	4,215	3,123	0	2,019	0	1,104
U. Puerto Rico, Rio Piedras	104	2,091	1,664	1,932	3,108	0	3,108	0	0
U. of the Virgin Islands	105	374	542	713	2,990	0	113	2,877	0
U. Houston	106	1,808	2,588	2,213	2,948	214	2,113	429	192
Iowa State U.	107	1,365	1,568	1,776	2,890	0	2,890	0	0
Texas State U.	108	844	2,932	3,137	2,870	6	1,889	0	975
Stevens Institute of Technology	109	5,006	3,756	3,202	2,846	183	0	212	2,451
U. Massachusetts, Amherst	110	2,568	2,936	4,021	2,803	0	2,803	0	0
Old Dominion U.	111	3,720	3,590	3,290	2,793	0	0	2,793	0
Michigan State U.	112	1,663	2,386	2,983	2,792	0	2,792	0	0
Rice U.	113	2,916	1,995	1,929	2,747	0	2,747	0	0
Boise State U.	114	3,600	4,272	2,556	2,730	109	2,501	108	12
Yale U.	115	3,727	3,142	3,053	2,704	0	2,704	0	0
U. Massachusetts, Dartmouth	116	3,068	2,393	2,297	2,680	0	0	2,680	0
U. Tennessee, Knoxville ^c	117	2,489	2,611	3,160	2,644	0	2,076	0	568
U. Guam	118	2,442	2,382	2,620	2,585	0	302	2,183	100
SUNY, U. Buffalo	119	2,682	2,925	2,286	2,537	0	2,537	0	0
U. Arkansas, Fayetteville	120	2,352	2,464	3,009	2,460	0	2,460	0	0
U. Rochester	121	2,257	2,082	2,112	2,392	0	2,392	0	0
Northeastern U.	122	2,260	2,665	3,174	2,235	0	429	1,806	0
U. South Alabama	123	945	1,188	1,499	2,048	0	58	1,990	0
U. Memphis	124	1,194	1,938	1,605	1,887	0	1,887	0	0
U. Wisconsin-Milwaukee	125	2,424	2,142	1,903	1,862	0	544	1,318	0
U. Washington, Tacoma	126	635	985	1,443	1,861	0	0	1,861	0
Tulane U.	127	1,521	1,574	1,478	1,796	0	1,796	0	0
Portland State U.	128	1,566	1,764	1,895	1,784	74	1,570	135	5
U. California, Merced	129	1,130	1,404	1,391	1,783	0	1,783	0	0
U. Central Florida	130	3,378	1,590	1,654	1,768	1,768	0	0	0
Rensselaer Polytechnic Institute	131	992	1,165	1,111	1,673	0	1,673	0	0
U. Idaho	132	2,604	2,588	2,451	1,662	115	1,476	0	71
Virginia Polytechnic Institute and State U.	133	2,302	2,218	2,251	1,619	48	1,571	0	0
U. Minnesota, Duluth	134	886	979	1,993	1,609	0	1,609	0	0
Indiana U., Bloomington	135	1,603	1,692	1,630	1,597	1,070	520	0	7
CUNY, City C.	136	1,249	1,902	2,103	1,578	0	1,578	0	0
California State U., Northridge	137	1,766	1,697	1,393	1,514	0	447	595	472
San Francisco State U.	138	1,741	875	1,442	1,501	0	109	1,392	0
U. Massachusetts, Boston	139	3,692	3,753	2,573	1,478	40	807	631	0

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U. Vermont	140	134	399	606	1,471	891	347	233	0
U. Kentucky	141	957	644	862	1,466	0	1,466	0	0
U. Massachusetts, Lowell	142	385	971	1,218	1,399	821	578	0	0
Rutgers, State U. New Jersey, Newark	143	1,876	2,295	2,921	1,372	0	1,372	0	0
U. North Carolina, Wilmington	144	1,315	1,019	1,398	1,369	0	47	1,322	0
Florida Gulf Coast U.	145	58	408	615	1,344	0	0	1,344	0
Syracuse U.	146	2,002	1,611	1,616	1,334	0	1,334	0	0
U. Nebraska, Lincoln	147	2,469	2,305	2,140	1,331	0	1,331	0	0
Bowling Green State U.	148	343	269	640	1,330	0	247	1,083	0
Lehigh U.	149	888	841	1,004	1,258	0	1,258	0	0
U. Texas, El Paso	150	1,475	1,662	1,550	1,251	0	1,251	0	0
Idaho State U.	151	2,461	1,891	710	1,248	0	627	0	621
Dartmouth C. and Dartmouth Hitchcock Medical Center	152	1,626	1,376	1,234	1,203	0	1,203	0	0
U. Alabama, Tuscaloosa	153	384	519	499	1,168	0	1,168	0	0
Central Washington U.	154	1,699	1,317	1,650	1,161	0	1,161	0	0
San Diego State U.	155	2,386	1,986	1,433	1,093	0	363	433	297
East Carolina U.	156	514	406	851	1,051	0	506	545	0
U. Louisiana, Lafayette	157	1,704	872	1,089	1,050	0	704	346	0
Northwest Indian C.	158	ne	466	1,043	1,033	287	291	455	0
Auburn U., Auburn	159	2,037	1,424	1,026	1,003	52	467	0	484
Coastal Carolina U.	160	808	710	862	998	573	0	425	0
U. Texas, San Antonio	161	569	788	617	991	0	510	0	481
Vanderbilt U. and Vanderbilt U. Medical Center	162	1,949	1,858	838	966	0	966	0	0
California Polytechnic State U., San Luis Obispo	163	774	1,257	1,089	963	0	0	963	0
U. Missouri, Columbia	164	1,328	854	1,252	924	0	900	0	24
U. New Orleans	165	1,941	1,708	969	897	0	897	0	0
U. North Texas, Denton	166	514	587	428	873	0	873	0	0
Miami U.	167	391	761	521	872	0	872	0	0
U. Pennsylvania	167	1,387	776	1,255	872	0	872	0	0
U. Hawaii, Hilo	169	498	731	796	871	100	380	391	0
California State U., Monterey Bay	170	538	637	785	867	0	301	502	64
C. Charleston	171	1,149	1,095	1,064	857	117	423	317	0
SUNY, Buffalo State	172	474	626	819	821	0	210	0	611
Embry-Riddle Aeronautical U.	173	179	418	307	807	807	0	0	0

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Florida Institute of Technology	174	244	761	612	780	15	0	765	0
Saint Louis U.	175	599	571	733	774	0	774	0	0
U.S. Naval Academy	176	531	1,110	1,074	771	0	0	771	0
Oklahoma State U., Stillwater	177	669	940	554	763	0	763	0	0
Western Washington U.	178	953	936	1,153	760	0	274	486	0
U. Texas Rio Grande Valley	179	861	926	1,060	745	0	22	705	18
Northwestern U.	180	1,020	1,021	1,003	730	0	730	0	0
Savannah State U.	181	479	591	633	728	0	247	328	153
Montana Technological U.	182	687	892	788	725	0	725	0	0
California State U., Sacramento	183	630	737	802	716	0	716	0	0
Emory U.	184	1,056	1,145	801	684	0	0	0	684
U. New England	185	1,233	749	1,080	681	0	0	681	0
Indiana U.-Purdue U., Indianapolis	186	903	731	518	679	0	679	0	0
Ohio U.	187	648	294	351	677	33	644	0	0
U. Iowa	188	968	669	636	673	0	666	0	7
Carleton C.	189	175	230	1,330	670	0	670	0	0
Towson U.	190	486	526	542	667	0	667	0	0
U. North Carolina, Charlotte	191	127	198	422	666	0	666	0	0
Occidental C.	192	41	321	480	630	0	87	543	0
Kansas State U.	193	1,751	1,653	1,259	627	0	627	0	0
U. Mississippi	194	441	696	614	617	88	70	459	0
South Dakota State U.	195	4,445	2,988	1,485	602	0	602	0	0
Southern Illinois U., Carbondale	196	333	382	557	593	7	92	0	494
Stockton U.	197	ne	107	493	578	0	378	109	91
Skidmore C.	198	94	475	743	577	0	558	0	19
Georgia State U.	199	340	479	681	575	0	575	0	0
U. Colorado Denver and Anschutz Medical Campus	199	208	2,807	2,178	575	545	30	0	0
U. Illinois, Chicago	201	355	426	381	567	0	567	0	0
Wesleyan U.	202	205	397	314	531	0	531	0	0
Sonoma State U.	203	ne	ne	ne	529	0	30	41	458
James Madison U.	204	563	510	317	508	0	508	0	0
Montclair State U.	205	460	510	825	499	0	348	151	0
Baylor U.	206	535	583	607	496	0	279	217	0
Bowdoin C.	207	258	531	356	493	0	60	433	0

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SUNY, C. of Environmental Science and Forestry	207	483	641	483	493	108	241	100	44
California State U., Long Beach	209	123	134	73	492	0	492	0	0
Air Force Institute of Technology	210	1,905	1,534	876	490	490	0	0	0
Case Western Reserve U.	211	835	765	567	478	0	478	0	0
Rockefeller U.	212	443	359	272	466	0	0	0	466
CUNY, York C.	213	ne	ne	85	462	0	462	0	0
Southern Illinois U., Edwardsville	214	488	568	562	461	0	389	0	72
Villanova U.	215	164	502	405	460	64	396	0	0
Humboldt State U.	216	2,398	1,255	376	450	123	183	123	21
Carnegie Mellon U.	217	842	835	791	440	176	0	0	264
Kent State U.	218	345	550	412	439	169	251	0	19
U. Alabama, Birmingham	219	806	812	702	438	438	0	0	0
Tarleton State U.	220	838	272	221	428	0	428	0	0
New School	221	1	325	373	414	0	0	0	414
William Paterson U.	221	77	54	211	414	0	414	0	0
Temple U.	223	454	727	536	410	0	410	0	0
St. Edward's U.	224	1,220	162	807	409	309	0	0	100
California State U., Chico	225	76	83	110	395	0	395	0	0
Illinois State U.	226	159	33	263	394	0	394	0	0
Stonehill C.	227	ne	ne	ne	393	0	0	393	0
SUNY, C. Plattsburgh	228	161	240	488	391	0	0	391	0
Northern Illinois U.	229	269	416	309	375	0	255	0	120
U. Washington, Bothell	230	330	116	310	371	318	0	53	0
Roger Williams U.	231	508	454	300	369	0	0	369	0
Illinois Institute of Technology	232	240	377	236	356	241	115	0	0
U. Dayton	233	49	199	400	352	252	100	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	234	678	581	433	346	0	346	0	0
CUNY, Queens C.	235	417	328	311	322	0	322	0	0
U. Texas, Arlington	235	525	445	547	322	0	322	0	0
U. West Florida	235	0	0	34	322	0	322	0	0
Florida Atlantic U.	238	277	335	387	307	162	0	0	145
Clark U.	239	620	598	410	306	0	197	109	0
U. Cincinnati	240	516	529	339	304	0	304	0	0
Colgate U.	241	395	430	363	295	0	230	0	65
Duquesne U.	242	0	0	12	290	0	290	0	0
Fort Hays State U.	243	ne	ne	316	288	0	251	0	37
Grand Valley State U.	244	524	617	328	287	0	0	0	287

TABLE 40

Federally financed 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
Texas A&M U.-Kingsville	245	94	245	201	284	0	0	0	284
Virginia Commonwealth U.	246	771	823	516	280	0	0	0	280
Macalester C.	247	287	141	310	268	248	0	0	20
North Carolina Central U.	248	350	250	233	264	0	264	0	0
SUNY, C. Brockport	249	107	0	239	261	0	261	0	0
Western Carolina U.	250	553	419	320	255	0	20	235	0
Western Kentucky U.	251	396	401	290	254	0	254	0	0
U. Northern Colorado	252	9	5	72	247	0	247	0	0
George Washington U.	253	641	596	213	243	0	243	0	0
Appalachian State U.	254	834	571	266	242	23	163	56	0
Middlebury C.	255	488	241	256	239	0	239	0	0
Creighton U.	256	0 i	192 i	259 i	238 i	238 i	0 i	0 i	0 i
Tufts U.	257	135	592	120	230	0	210	20	0
Rowan U.	258	70	139	308	227	0	227	0	0
Howard U.	259	1,101	618	248	225	0	0	225	0
CUNY, Hunter C.	260	242	265	160	219	0	219	0	0
American U.	261	58	198	215	216	0	0	0	216
Chapman U.	262	209	225	193	206	0	0	0	206
U. Akron	263	127	147	171	202	0	202	0	0
Marshall U.	264	0	0	100	201	0	0	0	201
Texas Christian U.	265	104	167	178	197	0	197	0	0
SUNY, Binghamton U.	266	378	178	411	196	196	0	0	0
Jackson State U.	267	2,122	1,562	1,794	189	0	0	0	189
New Mexico Highlands U.	267	0	66	ne	189	0	189	0	0
Heidelberg U.	269	408	162	159	188	0	0	188	0
Hawaii Pacific U.	270	245	268	288	183	0	38	0	145
Central Michigan U.	271	95	79	86	177	68	14	95	0
Elizabeth City State U.	272	96	146	ne	176	0	176	0	0
Texas Southern U.	272	176	0	119	176	0	0	0	176
U. Minnesota, Morris	272	147	ne	159	176	0	176	0	0
Colby C.	275	51	91	122	175	0	175	0	0
U. Louisville	276	133	187	106	169	37	132	0	0
Lewis and Clark C.	277	225	178	201	164	70	94	0	0
U. Texas, Dallas	278	104	145	167	163	0	163	0	0
Delaware State U.	279	626	412	155	161 i	161 i	0 i	0 i	0 i
Wellesley C.	280	0	2	154	154	0	154	0	0
U. San Diego	281	1,037	519	150	152	0	0	152	0
U. Missouri, Kansas City	282	285	238	224	151	0	151	0	0
U. Colorado Colorado Springs	283	109	46	68	150	22	13	115	0
California State U., Fullerton	284	156	391	189	145	0	145	0	0
U. Alaska, Southeast	284	487	420	254	145	0	43	102	0

TABLE 40

Federally financed 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. Denver	284	46	101	154	145	0	145	0	0
North Dakota State U.	287	96	198	277	139	0	139	0	0
CUNY, Baruch C.	288	35	135	0	137	0	30	107	0
U. Puerto Rico, Medical Sciences Campus	289	0	0	29	136	0	136	0	0
New York U.	290	388	164	55	133	0	133	0	0
Union C., Schenectady	291	285	550	125	130	0	130	0	0
Wayne State U.	292	217	203	154	129	0	129	0	0
Hobart and William Smith Colleges	293	179	ne	83	127	127	0	0	0
Wright State U.	293	297	231	161	127	0	127	0	0
Central State U.	295	45	122	163	125	0	125	0	0
Providence C.	296	8	103	166	124	0	0	124	0
Brigham Young U., Provo	297	366	213	260	122	0	122	0	0
U. South Carolina, Aiken	298	233	43	0	119	0	40	79	0
California State U., Bakersfield	299	215	208	147	118	0	118	0	0
California State U., Fresno	300	83	48	10	116	0	116	0	0
Wheaton C., Wheaton	300	0	0	90	116	0	116	0	0
Georgia Southern U.	302	168	93	207	115	44	46	25	0
Monmouth U.	303	ne	ne	91	109	0	0	109	0
Indiana U. Pennsylvania	304	155	113	481	107	7	100	0	0
Midwestern State U.	304	ne	ne	ne	107	0	107	0	0
Kean U.	306	ne	ne	ne	105	0	105	0	0
Pennsylvania State U., Behrend	307	1,288	657	899	104	8	8	88	0
SUNY, Geneseo	307	273	153	140	104	0	104	0	0
U. New Haven	307	0	0	0	104	97	0	7	0
Haverford C.	310	0	106	160	103	0	27	76	0
Indiana State U.	310	60	21	137	103	0	103	0	0
Pomona C.	310	366	96	100	103	0	103	0	0
Williams C.	313	162	146	104	99	0	99	0	0
U.S. Military Academy	314	215	245	111	98	0	0	0	98
Bates C.	315	108	73	83	91	0	91	0	0
Salisbury U.	315	86	78	145	91	0	0	0	91
Weber State U.	315	ne	ne	ne	91	0	91	0	0
California State U., San Bernardino	318	58	38	110	86	0	86	0	0
Central Connecticut State U.	319	80	ne	52	85	0	85	0	0
Alaska Pacific U.	320	198	117	88	83	0	0	1	82
U. Houston-Downtown	321	0	0	0	82	0	82	0	0
Northern Michigan U.	322	31	62	65	81	0	74	0	7
U. Wisconsin-Oshkosh	323	74	77	76	79	0	79	0	0

TABLE 40

Federally financed 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
DePaul U.	324	0	5	22	76	0	76	0	0
U. Tulsa	324	198	121	39	76	0	0	0	76
Missouri State U.	326	99	133	33	72	0	72	0	0
U. San Francisco	327	180	276	170	67	49	18	0	0
Utah State U.	327	1,038	1,514	642	67	67	0	0	0
Benedict C.	329	439	532	157	66	0	45	21	0
California State U., East Bay	330	ne	ne	ne	63	0	63	0	0
West Texas A&M U.	331	96	75	326	62	62	0	0	0
Eastern Washington U.	332	42	30	30	58	0	58	0	0
CUNY, Advanced Science Research Center	333	406	997	3	56	0	0	56	0
Oregon Institute of Technology	333	0 i	0	75 i	56	0	0	0	56
U. North Georgia	335	65	20	48	55	1	54	0	0
U. Wisconsin-Green Bay	336	44 i	33 i	49 i	53 i	0 i	53 i	0 i	0 i
Austin Peay State U.	337	0	0	0	52	0	52	0	0
Colorado C.	337	131	38	58	52	0	52	0	0
Oberlin C.	339	488	212	144	51	0	51	0	0
Northeastern Illinois U.	340	200	150	131	50	0	50	0	0
Troy U.	341	ne	ne	ne	47	0	0	47	0
Barnard C.	342	0	0	0	45	0	35	10	0
SUNY, Oswego	343	31	39	42	43	0	43	0	0
U. Richmond	343	49	28	25	43	0	43	0	0
Seattle U.	345	0	4	37	42	0	0	42	0
U. of the District of Columbia	346	106	51	84	41	0	41	0	0
CUNY, system office	347	54	100	148	39	39	0	0	0
U. Louisiana, Monroe	347	124	31	307	39	39	0	0	0
California State Polytechnic U., Pomona	349	380	231	202	38	0	8	0	30
U. of Mary Washington	349	ne	18	16	38	0	38	0	0
Clafin U.	351	101	138	259	37	37	0	0	0
Franklin and Marshall C.	351	35	144	442	37	0	0	37	0
U. North Carolina, Asheville	353	419	352	126	36	16	20	0	0
Andrews U.	354	ne	ne	54	35	0	35	0	0
CUNY, Lehman C.	354	29	37	0	35	0	35	0	0
Fort Lewis C.	356	ne	ne	10	34	0	34	0	0
Loyola Marymount U.	357	8	0	25	32	0	32	0	0
U. Wisconsin-Superior	358	ne	32	25	30	0	30	0	0
Claremont McKenna C.	359	88	93	173	29	0	0	29	0
Suffolk U.	360	0 i	ne	ne	28	0	0	28	0
U. Wisconsin-Platteville	360	0 i	ne	28 i	28 i	3 i	20 i	0 i	5 i

TABLE 40

Federally financed 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
North Carolina Agricultural and Technical State U.	362	214	124	118	26	0	0	0	26
Mercyhurst U.	363	147 i	ne	21 i	22 i	0 i	22 i	0 i	0 i
Tennessee Technological U.	363	0	20	43	22	0	22	0	0
Bucknell U.	365	48 i	46	22	21 i	0 i	21 i	0 i	0 i
C. Wooster	365	75	31	12	21	0	21	0	0
Clarkson U.	365	0	0	0	21	0	21	0	0
Murray State U.	368	21	30	17	19	0	19	0	0
Texas A&M International U.	368	89	165	37	19	0	19	0	0
CUNY, Brooklyn C.	370	415	118	17 i	18	0	18	0	0
Eastern Michigan U.	370	389	453	285	18	0	18	0	0
Keene State C.	372	101	ne	39	16	0	0	16	0
Long Island U.	373	0	0	26	15	0	15	0	0
Western Illinois U.	374	96	93	3	14	0	14	0	0
Brandeis U.	375	0	0	0	12	0	0	0	12
Wichita State U.	376	28	15	9	11	0	11	0	0
Furman U.	377	132	99	16	7	0	7	0	0
Morehead State U.	377	13	17	7	7	0	7	0	0
Hamilton C.	379	33	0	3	6	0	0	0	6
U. Wisconsin-La Crosse	379	0	0	4	6	0	6	0	0
Prairie View A&M U.	381	0	0	0	5	0	5	0	0
Albany State U.	382	0	0	0	4	0	0	0	4
Gallaudet U.	382	5	17	33	4	4	0	0	0
Ithaca C.	382	ne	ne	ne	4	0	0	4	0
U. Wisconsin-Eau Claire	382	62	1	5	4	0	4	0	0
Hofstra U.	386	15	8	11	3	0	0	0	3
Pennsylvania State U., Harrisburg	386	0	0	5	3	1	2	0	0
Trinity U.	386	65	27	28	3	0	3	0	0
U. Wisconsin-Stevens Point	386	2 i	2 i	3 i	3	0	3	0	0
Alfred U.	390	0	0	0	1	0	0	0	1
Biola U.	390	0 i	0 i	0 i	1 i	1 i	0 i	0 i	0 i
CUNY, Medgar Evers C.	390	25	0	0	1	0	1	0	0
Des Moines U.	390	110	140	77	1	0	1	0	0
Eastern Kentucky U.	390	0	0	0	1	0	0	0	1
Southern Connecticut State U.	390	151	0	9	1	0	0	1	0
Stephen F. Austin State U.	390	11	18	25	1	0	1	0	0
All other surveyed institutions	-	47,804	45,966	1,844	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 \$45,178 thousand in federally financed R&D expenditures in geosciences, atmospheric sciences, and ocean 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.