

TABLE 41
Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					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	-	2,048,305	2,067,239	2,109,698	2,145,163	484,265	772,157	640,634	248,107
Woods Hole Oceanographic Institution	1	110,718	112,979	115,744	129,085	33,059 i	49,318 i	37,492 i	9,216 i
U. Colorado Boulder	2	132,846	119,659	116,177	116,175	29,237	12,356	2,419	72,163
U. California, San Diego	3	88,060	120,294	128,962	107,137	2,362	14,859	89,916	0
U. Washington, Seattle	4	96,422	100,000	114,555	105,493	50,597	7,721	45,092	2,083
Texas A&M U., College Station and Health Science Center	5	88,535	86,781	82,072	81,667	4,295	5,675	67,764	3,933
U. Alaska, Fairbanks	6	50,997	50,566	54,408	76,984	5,466	48,100	23,361	57
Johns Hopkins U. ^a	7	29,412	37,235	59,766	73,509	10,746	31,584	23,026	8,153
U. Oklahoma, Norman and Health Science Center	8	43,991	54,007	64,742	69,382	67,046	2,336	0	0
U. Maryland ^b	9	na	46,763	51,008	55,924	14,228	37,953	888	2,855
Columbia U. in the City of New York	10	65,302	61,544	54,388	53,955	6,151	17,050	30,754	0
Arizona State U.	11	52,476	59,778	54,650	49,889	0	49,889	0	0
Colorado State U., Fort Collins	12	100,566	70,266	55,722	46,601	35,927	9,046	0	1,628
U. Hawaii, Manoa	13	55,156	58,526	47,728	45,399	2,264	9,527	32,329	1,279
U. New Hampshire	14	38,709	36,870	41,304	44,691	24,076	4,373	16,242	0
U. Miami	15	36,182	36,297	39,430	44,559	33,401	0	10,460	698
Oregon State U.	16	41,429	34,363	33,730	37,629	1,618	6,085	15,674	14,252
U. Wisconsin-Madison	17	36,826	36,615	35,879	35,050	24,419	7,127	0	3,504
U. Rhode Island	18	28,307	32,874	25,349	33,815	0	2,928	24,263	6,624
U. California, Los Angeles	19	26,061	24,970	27,134	31,060	6,441	23,382	0	1,237
U. Utah	20	7,255	15,150	11,112	30,710	0	27,390	0	3,320
California Institute of Technology	21	22,753	25,436	27,071	25,067	1,480	20,764	196	2,627
Harvard U.	22	26,892	27,835	28,723	24,827	3,362	3,770	739	16,956
Princeton U.	23	17,747	15,933	16,105	21,115	11,928	3,226	386	5,575
U. Texas, Austin	24	23,228	19,745	20,523	20,837	0	15,667	3,403	1,767
Massachusetts Institute of Technology	25	27,772	22,382	20,477	20,764	6,199	8,112	5,153	1,300
U. Southern Mississippi	26	9,366	21,324	21,092	20,411	0	4,892	3,451	12,068
Pennsylvania State U., University Park and Hershey Medical Center	27	31,354	28,218	24,605	20,062	7,858	10,023	2,181	0
Desert Research Institute	28	17,665	16,557	15,748	16,608	3,363	13,245	0	0

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U. California, Santa Barbara	29	13,504	14,799	16,190	16,253	0	8,606	7,645	2
U. California, Santa Cruz	30	11,487	12,725	15,234	15,976	0	2,801	8,629	4,546
U. Alabama, Huntsville	31	10,004	12,920	14,123	14,376	13,971	390	15	0
U. Arizona	32	13,117	13,372	13,625	13,788	2,522	10,068	924	274
U. Maryland, Baltimore County	33	14,629	10,807	12,497	12,883	1,520	9,905	872	586
North Carolina State U.	34	12,401	12,946	13,202	12,866	5,722	0	1,345	5,799
Rutgers, State U. New Jersey, New Brunswick	35	14,353	11,993	16,060	12,836	939	44	11,666	187
SUNY, Stony Brook U.	36	11,179	11,996	10,824	12,214	0	4,350	7,862	2
William & Mary	37	14,448	14,272	12,158	12,138	0	216	11,922	0
George Mason U.	38	10,804	9,912	9,390	11,636	4,782	6,110	427	317
U. Delaware	39	12,351	10,066	10,785	11,596	0	2,557	4,817	4,222
U. North Carolina, Chapel Hill	40	11,903	11,158	12,873	11,575	0	3,800	3,512	4,263
Mississippi State U.	41	5,817	7,793	13,635	11,429	580	8,482	2,252	115
U. Hawaii, system office	42	11,020	10,531	11,673	11,375	11,360	0	15	0
U. South Florida ^c	43	10,896	10,880	10,327	9,935	0	2,108	7,827	0
Michigan Technological U.	44	8,473	8,715	8,015	9,646	1,370	4	3,662	4,610
Florida International U.	45	8,001	7,987	9,463	9,569	2,049	540	6,980	0
U. California, Irvine	46	8,857	9,510	9,301	9,271	0	9,271	0	0
U. Maine	47	10,472	9,385	9,064	8,996	0	1,392	7,603	1
Stanford U.	48	8,710	7,690	8,906	8,901	0	6,732	1,475	694
U. Wyoming	49	5,959	5,473	10,107	8,601	6,287	2,289	0	25
U. Minnesota, Twin Cities	50	7,622	8,058	7,624	8,548	0	8,548	0	0
U. Chicago	51	8,644	8,639	8,514	8,384	0	8,384	0	0
U. Florida	52	10,165	9,497	8,484	8,334	0	6,235	2,099	0
U. Southern California	53	10,908	10,664	9,079	8,192	0	6,639	1,553	0
U. Michigan, Ann Arbor	54	7,281	8,070	8,059	7,910	0	7,910	0	0
Florida State U.	55	8,332	8,123	8,871	7,904	1,247	1,221	4,872	564
Georgia Institute of Technology	56	8,340	7,822	7,862	7,744	0	7,516	228	0
Louisiana State U., Baton Rouge	57	7,956	7,883	8,178	7,740	0	1,011	5,607	1,122

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U. Connecticut	58	5,866	6,674	7,020	7,650	0	490	7,160	0
U. Pittsburgh, Pittsburgh	59	8,521	8,568	7,374	7,431	0	1,359	0	6,072
U. Maryland Center for Environmental Science	60	7,064	8,301	8,462	7,217	0	124	6,872	221
U. Georgia	61	6,109	6,855	6,304	7,051	0	289	6,762	0
San Jose State U.	62	10,336	8,618	7,847	6,871	1,807	123	4,941	0
SUNY, U. Albany	63	8,969	6,728	6,953	6,809	5,847	962	0	0
New Mexico Institute of Mining and Technology	64	5,010	6,235	6,328	6,427	0	6,427	0	0
Naval Postgraduate School	65	5,993	5,268	6,300	6,195	1,824	644	3,346	381
U. New Mexico	66	6,957	6,674	6,249	6,164	373	5,791	0	0
Boston U.	67	5,287	5,898	6,447	6,053	0	6,053	0	0
U. Nevada, Reno	68	6,940	6,263	6,910	6,038	114	5,171	221	532
U. California, Davis	69	6,596	6,459	7,014	5,881	1,210	1,032	415	3,224
Ohio State U.	70	6,182	6,216	6,489	5,685	0	5,685	0	0
Washington U., Saint Louis	71	4,750	5,192	5,000	5,585	0	5,585	0	0
Boston C.	72	4,067	3,209	3,871	5,459	4,788	671	0	0
Duke U.	73	6,987	7,079	6,194	5,406	0	1,049	4,357	0
U. Oregon	74	3,286	4,038	5,073	5,371	0	4,929	442	0
Brown U.	75	2,166	2,488	3,436	5,321	0	1,234	189	3,898
Florida A&M U.	76	3,458	4,945	5,329	5,255	0	0	4,848	407
U. of the Virgin Islands	77	542	713	2,990	5,241	0	88	4,248	905
U. California, Berkeley	78	6,670	5,638	5,816	5,198	0	5,198	0	0
Nova Southeastern U.	79	3,210	3,515	5,381	5,135	0	0	5,135	0
Washington State U.	80	4,276	4,767	5,323	5,103	0	523	0	4,580
U. Guam	81	2,382	2,620	2,585	5,001	0	216	4,673	112
Northern Arizona U.	82	7,751	6,805	5,975	4,968	96	3,506	32	1,334
U. Illinois, Urbana-Champaign	83	6,121	5,967	5,419	4,965	3,526	1,439	0	0
Cornell U.	84	5,072	4,796	6,428	4,852	910	3,847	95	0
U. California, Riverside	85	4,555	4,237	4,821	4,764	0	1,847	0	2,917
U. Alaska, Anchorage	86	4,355	4,476	6,432	4,761	256	3,940	522	43

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U. Kansas	87	4,879	3,873	4,622	4,531	644	3,887	0	0
Texas Tech U.	88	2,326	2,843	3,340	4,463	162	3,061	0	1,240
U. Maryland, Eastern Shore	89	2,775	4,369	3,454	4,182	0	0	4,182	0
U. Massachusetts, Dartmouth	90	2,393	2,297	2,680	4,040	0	0	4,040	0
Purdue U., West Lafayette	91	3,140	3,042	4,079	3,938	3,938	0	0	0
Southern Methodist U.	92	3,324	4,100	4,026	3,893	0	3,893	0	0
U. Louisiana, Lafayette	93	872	1,089	1,050	3,772	0	2,944	828	0
Colorado School of Mines	94	4,025	4,981	4,424	3,708	0	3,562	0	146
Montana State U., Bozeman	95	4,787	4,215	3,123	3,609	0	2,598	0	1,011
U. Virginia, Charlottesville	96	2,870	3,896	4,059	3,582	0	0	0	3,582
U. Houston	97	2,588	2,213	2,948	3,418	1,277	1,348	331	462
U. Montana, Missoula	98	2,393	2,967	3,195	3,391	0	1,859	1,532	0
U. Toledo	99	2,773	3,474	3,227	3,371	0	3,371	0	0
U. Arkansas, Fayetteville	100	2,464	3,009	2,460	3,326	0	3,326	0	0
Morgan State U.	101	4,372	3,955	3,351	3,298	0	3,298	0	0
U. South Carolina, Columbia	102	1,079	983	3,889	3,288	0	0	3,288	0
New Mexico State U.	103	3,752	2,797	3,870	3,286	16	878	0	2,392
U. Nevada, Las Vegas	104	2,578	2,543	3,541	3,096	392	2,505	0	199
Texas A&M U.-Corpus Christi	105	5,216	4,273	3,609	3,075	316	306	1,592	861
Michigan State U.	106	2,386	2,983	2,792	3,071	0	3,071	0	0
Hampton U.	107	4,022	3,779	3,454	2,881	2,212	0	661	8
U. North Dakota	108	1,958	3,056	3,730	2,794	2,559	235	0	0
Iowa State U.	109	1,568	1,776	2,890	2,725	0	2,725	0	0
U. Puerto Rico, Rio Piedras	110	1,664	1,932	3,108	2,639	0	2,639	0	0
U. Tennessee, Knoxville ^d	111	2,611	3,160	2,644	2,558	0	1,876	0	682
Yale U.	112	3,142	3,053	2,704	2,553	0	2,553	0	0
Rice U.	113	1,995	1,929	2,747	2,546	0	2,546	0	0
Indiana U., Bloomington	114	1,692	1,630	1,602	2,420	1,303	773	0	344
Northeastern U.	115	2,665	3,174	2,235	2,358	0	1,000	1,358	0

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SUNY, U. Buffalo	116	2,925	2,286	2,537	2,325	0	2,325	0	0
U. Wisconsin-Milwaukee	117	2,142	1,903	1,862	2,323	885	0	1,438	0
U. Washington, Tacoma	118	985	1,443	1,861	2,290	0	0	2,290	0
Boise State U.	119	4,272	2,556	2,730	2,250	54	2,090	72	34
U. Rochester	120	2,082	2,112	2,392	2,207	0	2,207	0	0
Texas State U.	121	2,932	3,137	2,870	2,168	2	1,531	0	635
U. Massachusetts, Amherst	122	2,936	4,021	2,803	2,117	0	2,117	0	0
Old Dominion U.	123	3,590	3,290	2,793	2,096	0	0	2,096	0
Tulane U.	124	1,574	1,478	1,796	2,074	0	2,074	0	0
U. Texas, San Antonio	125	788	617	991	2,037	0	850	0	1,187
U. Puerto Rico, Mayaguez	126	4,246	3,975	3,896	2,014	0	542	1,472	0
U. California, Merced	127	1,404	1,391	1,783	1,948	61	276	0	1,611
U. Idaho	128	2,588	2,451	1,662	1,924	91	1,757	0	76
U. South Alabama	129	1,188	1,499	2,048	1,883	0	209	1,674	0
Emory U.	130	1,145	801	684	1,856	0	0	0	1,856
U. Vermont	131	399	606	1,471	1,824	1,197	627	0	0
U. Massachusetts, Lowell	132	971	1,218	1,399	1,789	947	842	0	0
San Francisco State U.	133	875	1,442	1,755	1,773	0	98	1,564	111
West Virginia U.	134	3,992	6,255	6,352	1,749	0	1,749	0	0
Virginia Polytechnic Institute and State U.	135	2,218	2,251	1,619	1,732	145	1,587	0	0
Auburn U., Auburn	136	1,424	1,026	1,003	1,675	0	699	0	976
U. Kentucky	137	644	862	1,466	1,652	0	1,652	0	0
U. Memphis	138	1,938	1,605	1,887	1,590	0	1,590	0	0
Rutgers, State U. New Jersey, Newark	139	2,295	2,921	1,372	1,587	0	1,587	0	0
U. Texas, El Paso	140	1,662	1,550	1,251	1,512	0	1,512	0	0
Portland State U.	141	1,764	1,895	1,784	1,510	228	1,029	249	4
U. Central Florida	142	1,590	1,654	1,768	1,498	1,498	0	0	0
Bowling Green State U.	143	269	640	1,330	1,495	0	226	1,269	0
CUNY, City C.	144	1,902	2,103	1,578	1,460	0	1,460	0	0

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Sonoma State U.	145	ne	ne	529	1,412	0	467	19	926
Florida Gulf Coast U.	146	408	615	1,344	1,329	252	0	1,077	0
Florida Institute of Technology	147	761	612	780	1,326	690	208	428	0
U. North Carolina, Wilmington	148	1,019	1,398	1,369	1,318	0	23	1,295	0
Rensselaer Polytechnic Institute	149	1,165	1,111	1,673	1,299	0	1,299	0	0
U. Mississippi	150	696	614	617	1,220	336	312	572	0
East Carolina U.	151	406	851	1,051	1,198	0	231	967	0
U. Hawaii, Hilo	152	731	796	871	1,157	0	702	455	0
Idaho State U.	153	1,891	710	1,248	1,136	0	671	0	465
Ohio U.	154	294	351	677	1,120	32	1,088	0	0
San Diego State U.	155	1,986	1,433	1,093	1,091	0	223	554	314
Dartmouth C. and Dartmouth Hitchcock Medical Center	156	1,376	1,234	1,203	1,085	0	1,085	0	0
Northwest Indian C.	157	466	1,043	1,033	1,084	301	305	477	1
Syracuse U.	158	1,611	1,616	1,334	1,073	0	1,073	0	0
Central Washington U.	159	1,317	1,650	1,161	1,066	0	1,066	0	0
Montana Technological U.	160	892	788	725	1,056	0	1,056	0	0
Western Washington U.	161	936	1,153	760	1,041	0	613	428	0
U. Massachusetts, Boston	162	3,753	2,573	1,478	984	0	598	386	0
California Polytechnic State U., San Luis Obispo	163	1,257	1,089	963	973	0	0	973	0
Lehigh U.	164	841	1,004	1,258	939	0	939	0	0
C. Charleston	165	1,095	1,064	857	918	200	245	473	0
CUNY, Advanced Science Research Center	166	997	3	56	877	0	113	764	0
Vanderbilt U. and Vanderbilt U. Medical Center	167	1,858	838	966	852	0	852	0	0
U. North Texas, Denton	168	587	428	873	847	0	847	0	0
California State U., Monterey Bay	169	637	785	867	837	0	35	676	126
SUNY, Buffalo State	170	626	819	821	834	0	208	0	626
U. Alabama, Tuscaloosa	171	519	499	1,168	822	0	822	0	0
Savannah State U.	172	591	633	728	815	0	146	527	142
Oklahoma State U., Stillwater	173	940	554	763	801	0	801	0	0

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Northwestern U.	174	1,021	1,003	730	782	0	782	0	0
Southern Illinois U., Carbondale	175	382	557	593	772	5	157	0	610
Carleton C.	176	230	1,330	670	759	0	759	0	0
U. Pennsylvania	177	776	1,255	872	749	0	749	0	0
U. Missouri, Columbia	178	854	1,252	924	729	0	729	0	0
Pennsylvania State U., Behrend	179	657	899	104	706	6	21	679	0
California State U., Sacramento	180	737	802	716	700	0	700	0	0
Utah State U.	181	1,514	642	67	690	224	466	0	0
Georgia State U.	182	479	681	575	682	0	682	0	0
U. New Orleans	183	1,708	969	897	680	0	680	0	0
Northern Illinois U.	184	416	309	375	676	0	564	0	112
West Texas A&M U.	184	75	326	62	676	676	0	0	0
California State U., Northridge	186	1,697	1,393	1,514	663	0	315	148	200
U. Nebraska, Lincoln	187	2,305	2,140	1,331	640	0	640	0	0
Florida Atlantic U.	188	335	387	307	638	187	0	0	451
U.S. Naval Academy	189	1,110	1,074	771	613	0	0	613	0
U. Texas Rio Grande Valley	190	926	1,060	745	605	0	14	527	64
South Dakota State U.	191	2,988	1,485	602	604	0	604	0	0
Indiana U.-Purdue U., Indianapolis	192	731	518	679	583	0	583	0	0
Colgate U.	193	430	363	295	580	0	379	0	201
Embry-Riddle Aeronautical U.	194	418	307	807	575	575	0	0	0
U. North Carolina, Charlotte	195	198	422	666	573	0	573	0	0
U. Illinois, Chicago	196	426	381	567	553	0	553	0	0
SUNY, C. of Environmental Science and Forestry	197	641	483	493	551	73	275	115	88
Southern Illinois U., Edwardsville	198	568	562	461	546	0	402	0	144
Occidental C.	199	321	480	630	510	0	69	441	0
Coastal Carolina U.	200	710	862	998	509	462	24	23	0
Montclair State U.	201	510	825	499	508	0	365	129	14
Miami U.	202	761	521	872	496	0	496	0	0

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American U.	203	198	215	216	493	0	0	0	493
Case Western Reserve U.	203	765	567	478	493	0	493	0	0
Towson U.	205	526	542	667	481	0	481	0	0
CUNY, York C.	206	ne	85	462	472	256	216	0	0
Roger Williams U.	207	454	300	369	466	0	0	466	0
U. Dayton	208	199	400	352	461	311	150	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	209	581	433	346	453	0	453	0	0
Temple U.	210	727	536	410	449	0	449	0	0
Kansas State U.	211	1,653	1,259	627	444	0	444	0	0
Tarleton State U.	212	272	221	428	431	0	431	0	0
California State U., Chico	213	83	110	395	414	0	414	0	0
Middlebury C.	214	241	256	239	413	0	304	0	109
U. New England	215	749	1,080	681	411	0	0	411	0
Baylor U.	216	583	607	496	408	91	184	133	0
SUNY, C. Plattsburgh	217	240	488	391	400	0	7	393	0
Illinois State U.	218	33	263	394	381	0	381	0	0
California State U., Fresno	219	48	10	116	371	0	371	0	0
Carnegie Mellon U.	220	835	791	440	360	277	0	83	0
St. Edward's U.	221	162	807	409	359	300	0	0	59
U. Iowa	222	669	636	673	348	0	338	0	10
Humboldt State U.	223	1,255	376	450	334	243	12	73	6
Rockefeller U.	223	359	272	466	334	0	0	0	334
Grand Valley State U.	225	617	328	287	331	0	0	0	331
U. Washington, Bothell	225	116	310	371	331	327	4	0	0
U. Colorado Denver ^e	227	na	na	na	330	330	0	0	0
Wesleyan U.	228	397	314	531	322	0	322	0	0
Central Michigan U.	229	79	86	177	316	114	76	126	0
Tennessee State U.	230	0	0	297	314	0	314	0	0
Bowdoin C.	231	531	356	493	310	0	13	297	0

TABLE 41
Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2021 geosciences, atmospheric sciences, and ocean sciences: FYs 2018–21 and by subfield for FY 2021

(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					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
William Paterson U.	232	54	211	414	309	0	309	0	0
Heidelberg U.	233	162	159	188	308	0	0	308	0
U. Cincinnati	234	529	339	304	303	0	303	0	0
Kent State U.	235	550	412	439	296	25	237	0	34
Howard U.	236	618	248	225	289	0	0	289	0
Brigham Young U., Provo	237	213	260	122	287	0	287	0	0
Western Kentucky U.	238	401	290	254	284	0	284	0	0
Lewis and Clark C.	239	178	201	164	278	27	251	0	0
Saint Louis U.	239	571	733	774	278	0	278	0	0
Clark U.	241	598	410	306	271	0	145	126	0
U. Puerto Rico, Medical Sciences Campus	242	0	29	136	265	0	265	0	0
Wichita State U.	243	15	9	11	255	0	255	0	0
U. Texas, Arlington	244	445	547	322	254	0	254	0	0
Georgia Southern U.	245	93	207	115	253	29	216	8	0
Hawaii Pacific U.	246	268	288	183	252	0	38	214	0
CUNY, Queens C.	247	328	311	322	251	0	251	0	0
Delaware State U.	248	412	155	215	247	0	4	243	0
DePaul U.	249	5	22	76	246	0	246	0	0
Chapman U.	250	225	193	206	242	0	0	0	242
Duquesne U.	251	0	12	290	241	0	241	0	0
Stockton U.	252	107	493	578	239	15	0	224	0
Marshall U.	253	0	100	201	233	0	0	0	233
Western Carolina U.	253	419	320	255	233	0	2	231	0
SUNY, C. Brockport	255	0	239	261	231	0	231	0	0
U. of St. Thomas (MN)	256	0	0	0	222	0	222	0	0
California State U., Long Beach	257	134	73	492	220	0	220	0	0
Illinois Institute of Technology	258	377	236	356	217	102	115	0	0
U. Richmond	258	28	25	43	217	0	217	0	0
Tufts U.	260	592	120	230	215	0	106	109	0

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(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					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. Colorado Anschutz Medical Campus ^e	261	na	na	na	212	212	0	0	0
SUNY, Binghamton U.	262	178	411	196	207	0	207	0	0
Skidmore C.	263	475	743	577	202	0	202	0	0
Virginia Commonwealth U.	264	823	516	280	200	0	0	0	200
U. Minnesota, Duluth	265	979	1,993	1,609	199	0	199	0	0
New Mexico Highlands U.	266	66	ne	189	198	0	198	0	0
Union C., Schenectady	266	550	125	130	198	0	198	0	0
U. Akron	268	147	171	202	194	0	194	0	0
U. Alabama, Birmingham	269	812	702	438	188	188	0	0	0
U. Alaska, Southeast	270	420	254	145	176	0	59	117	0
Air Force Institute of Technology	271	1,534	876	490	175	175	0	0	0
Macalester C.	272	141	310	268	172	97	0	0	75
North Carolina Central U.	273	250	233	264	171	0	171	0	0
U. Louisville	273	187	106	169	171	114	49	8	0
North Dakota State U.	275	198	277	139	164	0	164	0	0
CUNY, Hunter C.	276	265	160	219	162	0	162	0	0
Villanova U.	276	502	405	460	162	0	100	62	0
Alaska Pacific U.	278	117	88	83	158	0	54	24	80
Rowan U.	278	139	308	227	158	0	158	0	0
Barnard C.	280	0	0	45	156	0	152	4	0
U. Tulsa	281	121	39	76	151	0	151	0	0
Long Island U.	282	0	26	15	150	0	150	0	0
Missouri State U.	283	133	33	72	146	2	144	0	0
Appalachian State U.	284	571	266	242	144	1	143	0	0
Colby C.	284	91	122	175	144	0	144	0	0
Providence C.	284	103	166	124	144	0	0	144	0
U. Hawaii, Maui C.	284	ne	ne	ne	144	0	0	144	0
New School	288	325	373	414	143	0	0	0	143
California State U., East Bay	289	ne	ne	63	142	0	142	0	0

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(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					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. Minnesota, Morris	290	ne	159	176	140	0	140	0	0
Austin Peay State U.	291	0	0	52	136	0	136	0	0
U. Texas, Dallas	292	145	167	163	128	0	128	0	0
U. Colorado Colorado Springs	293	46	68	150	127	69	58	0	0
James Madison U.	294	510	317	508	125	0	125	0	0
Texas Christian U.	295	167	178	197	121	0	121	0	0
U. Northern Colorado	296	5	72	247	120	0	120	0	0
California State Polytechnic U., Pomona	297	231	202	38	118	0	0	0	118
SUNY, Geneseo	298	153	140	104	115	0	115	0	0
U. Wisconsin-Oshkosh	299	116 i	116 i	115 i	114	0	114	0	0
U. San Francisco	300	276	170	67	113	1	32	0	80
Williams C.	301	146	104	99 i	105 i	0 i	105 i	0 i	0 i
Wright State U.	302	231	161	127	104	0	104	0	0
Central State U.	303	122	163	125	102	0	102	0	0
U. San Diego	304	519	150	152	101	0	0	101	0
Northern Michigan U.	305	62	65	81	100	0	100	0	0
Colorado C.	306	38	58	52	96	0	96	0	0
U. Missouri, Kansas City	306	238	224	151	96	0	96	0	0
Fort Hays State U.	308	ne	316	288	95	0	95	0	0
California State U., Fullerton	309	391	189	145	94	0	58	36	0
U. North Carolina, Asheville	310	352	126	36	93	86	7	0	0
Dillard U.	311	0	0	0	87	0	37	0	50
Monmouth U.	312	ne	91	109	86	0	0	86	0
Sam Houston State U.	313	3	0	0	85	0	85	0	0
U. of the District of Columbia	314	51	84	41	82	0	82	0	0
U. New Haven	315	0	0	104	80	73	0	7	0
Haverford C.	316	106	160	103	79	0	31	48	0
Texas Southern U.	316	0	119	184	79	0	0	0	79
Clarkson U.	318	0	0	21	77	0	47	30	0

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(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					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
Wellesley C.	318	2	154	154	77	17	60	0	0
Wheaton C., Wheaton	320	0	90	116	76	0	76	0	0
Central Connecticut State U.	321	ne	52	85	74	0	74	0	0
Indiana State U.	322	21	137	103	73	0	73	0	0
New York U.	323	164	55	133	71	0	71	0	0
Northeastern Illinois U.	324	150	131	50	68	0	68	0	0
Eastern Michigan U.	325	453	285	18	64	0	42	0	22
Southern Connecticut State U.	326	0	9	1	63	50	13	0	0
Wayne State U.	326	203	154	129	63	0	63	0	0
Kean U.	328	ne	ne	105	61	0	61	0	0
U. Louisiana, Monroe	328	31	307	39	61	61	0	0	0
Lincoln U., Jefferson City	330	0	0	0	60	23	37	0	0
George Washington U.	331	596	213	243	59	0	17	0	42
U. North Georgia	331	20	48	55	59	0	59	0	0
SUNY, Oswego	333	39	42	43	58	5	53	0	0
Salisbury U.	334	78	145	91	57	0	0	0	57
U. Wisconsin-Stevens Point	334	2 i	3 i	3	57	0	57	0	0
Northland C.	336	ne	ne	ne	56 i	0 i	48 i	0 i	8 i
Seattle U.	337	4	37	42	54	0	0	54	0
California State U., San Bernardino	338	38	110	86	51	0	51	0	0
Hofstra U.	339	8	11	3	50	0	50	0	0
U. Wisconsin-Green Bay	340	33 i	49 i	53 i	48 i	0 i	48 i	0 i	0 i
Eastern Washington U.	341	30	30	58	46	0	46	0	0
U. of the Pacific	342	0	0	0	43	0	43	0	0
Pomona C.	343	96	100	103	42	0	42	0	0
Amherst C.	344	0	0	0	41	0	41	0	0
California State U., Bakersfield	345	208	147	118	40	0	40	0	0
Murray State U.	346	30	17	19	35	0	35	0	0
U. Houston-Downtown	346	0	0	82	35	0	0	0	35

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(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					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.S. Air Force Academy	348	0	0	0	34	0	34	0	0
Furman U.	349	99	16	7	33	0	33	0	0
Andrews U.	350	ne	54	35	32	0	32	0	0
Dakota State U.	350	0	0	0	32	0	32	0	0
Indiana U. Pennsylvania	350	113	481	107	32	0	28	0	4
Troy U.	353	ne	ne	47	31	0	0	31	0
U. Denver	353	101	154	145	31	0	31	0	0
U. of Mary Washington	355	18	16	38	29	0	29	0	0
Suffolk U.	356	ne	ne	28	28	0	0	28	0
Bates C.	357	73	83	91	26	0	26	0	0
Claflin U.	357	138	259	37	26	26	0	0	0
Oberlin C.	359	212	144	51	25	0	25	0	0
Fort Lewis C.	360	ne	10	34	24	0	24	0	0
Loyola Marymount U.	360	0	25	32	24	0	24	0	0
Oregon Institute of Technology	360	0	75 i	56	24 i	0 i	0 i	0 i	24 i
California State U., Los Angeles	363	0	0	0	23	0	23	0	0
Mercyhurst U.	363	ne	21 i	22 i	23 i	0 i	18 i	0 i	5 i
Albany State U.	365	0	0	4	22	0	0	0	22
C. Wooster	365	31	12	21	22 i	0 i	22 i	0 i	0 i
Pennsylvania State U., Harrisburg	365	0	5	3	22	11	11	0	0
Tennessee Technological U.	368	20	43	22	21	0	21	0	0
Ithaca C.	369	ne	ne	4	20	0	0	20	0
Hobart and William Smith Colleges	370	ne	83	127	19	19	0	0	0
Fort Valley State U.	371	0	0	0	18	0	18	0	0
Hope C.	371	0	0	0	18	0	18	0	0
Claremont McKenna C.	373	93	173	29	17	0	0	0	17
U. Puerto Rico, Humacao	373	0	0	0	17	0	0	0	17
U. Nebraska, Omaha	375	0	0	0	16	0	16	0	0
Trinity U.	376	27	28	3	14	0	14	0	0

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(Dollars in thousands)

Institution	Rank	2018	2019	2020	2021				
					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, Brooklyn C.	377	118	17	i 18	13	0	13	0	0
St. Olaf C.	377	0	0	0	13	3	0	10	0
U. North Florida	379	0	0	0	11	0	0	0	11
U. Wisconsin-Superior	379	32	25	30	11	0	11	0	0
CUNY, Baruch C.	381	135	0	137	8	0	0	0	8
Sacred Heart U.	381	ne	ne	ne	8	8	0	0	0
Virginia State U.	381	50	157	0	8	8	0	0	0
Morehead State U.	384	17	7	7	7	0	7	0	0
U. Southern Maine	384	0	0	0	7	0	0	7	0
Minnesota State U., Mankato	386	37	0	0	6	0	6	0	0
Smith C.	387	26	38	0	5	0	5	0	0
U. Wisconsin-Eau Claire	387	1	5	4	5	0	5	0	0
Midwestern U.	389	0	0	0	4	0	0	0	4
Eastern Kentucky U.	390	0	0	1	2	0	0	0	2
Kentucky State U.	390	186	0	0	2	0	2	0	0
U.S. Military Academy	390	245	111	98	2	0	2	0	0
Alfred U.	393	0	0	1	1	0	0	0	1
Des Moines U.	393	140	77	1	1	i 0	i 1	i 0	i 0
Gallaudet U.	393	17	33	4	1	0	0	1	0
Indiana U., South Bend	393	0	ne	ne	1	0	0	0	1
U. Wisconsin-La Crosse	393	0	4	6	1	0	1	0	0
All other surveyed institutions	-	55,674	10,339	5,646	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 \$61,402 thousand in federally financed R&D expenditures in geosciences, atmospheric sciences, and ocean sciences in FY 2021.

^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 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.

^d 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.

^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 2021 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.