

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					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	-	3,281,649	3,295,235	3,652,936	4,032,534	723,727	1,488,300		1,365,092	455,415
U. California, San Diego	1	201,331	185,870	187,175	245,278	0	54,139		191,139	0
Woods Hole Oceanographic Institution	2	143,240	160,059	166,020	194,513	36,812	89,488		53,776	14,437
U. Washington, Seattle	3	135,307	128,033	152,187	162,612	63,322	12,991		75,026	11,273
U. Colorado Boulder	4	119,824	118,876	129,830	140,081	26,474	19,149		2,931	91,527
Texas A&M U., College Station and Health Science Center	5	107,894	106,932	122,622	125,114	7,010	11,463		101,588	5,053
U. Alaska, Fairbanks	6	72,609	95,711	121,905	111,890	13,684	64,913		32,857	436
U. New Hampshire	7	51,661	55,523	86,032	99,189	32,874	8,503		57,812	0
U. Hawaii, Manoa	8	71,468	73,176	78,404	88,512	3,031	19,070		61,690	4,721
Columbia U. in the City of New York	9	78,288	77,515	79,949	88,243	12,850	35,378		40,015	0
U. Maryland ^a	10	58,099	61,660	78,455	87,557	8,322	62,124		2,202	14,909
U. Oklahoma, Norman and Health Science Center	11	84,812	91,101	89,076	83,345	71,803	11,495		0	47
U. Wisconsin-Madison	12	65,000	65,814	68,178	77,933	46,930	18,251		0	12,752
U. Texas, Austin	13	61,145	54,009	55,612	76,120	45	58,701		12,897	4,477
Johns Hopkins U. ^b	14	65,556	79,257	96,789	72,538	11,587	29,977		23,174	7,800
U. Miami	15	50,684	50,826	59,693	61,748	37,213	0		23,451	1,084
U. Rhode Island	16	42,634	52,469	54,685	61,366	17	10,374		38,572	12,403
Arizona State U.	17	73,544	68,116	67,062	59,803	294	59,430		79	0
Colorado State U., Fort Collins	18	67,642	60,073	53,708	59,772	49,496	9,357		102	817
Oregon State U.	19	39,215	43,111	46,982	57,207	1,964	14,826		26,728	13,689
U. California, Los Angeles	20	41,594	41,818	45,869	52,655	12,177	30,675		0	9,803
California Institute of Technology	21	43,338	43,295	57,033	47,263	0	43,235		0	4,028
U. Arizona	22	31,148	32,088	33,859	44,173	10,888	29,232		2,755	1,298
William & Mary	23	33,084	34,838	38,810	43,485	0	855		42,630	0
U. Maryland Center for Environmental Science	24	43,554	40,621	42,407	42,880	72	3,712		38,656	440
Louisiana State U., Baton Rouge	25	32,283	28,763	33,440	41,171	0	6,907		23,523	10,741
U. California, Santa Cruz	26	29,389	31,217	35,788	39,967	0	9,302		21,214	9,451
SUNY, Stony Brook U.	27	25,334	26,694	33,444	39,762	71	6,815		32,750	126
U. California, Santa Barbara	28	40,396	37,222	43,416	38,926	0	2,319		36,396	211
U. California, Davis	29	30,153	30,603	32,940	38,078	4,805	3,690		5,376	24,207
Rutgers, State U. New Jersey, New Brunswick	30	25,634	24,326	27,807	35,546	0	7,022		27,289	1,235
Stanford U.	31	20,216	21,216	30,947	35,299	0	21,971		4,292	9,036

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(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					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 State U.	32	27,010	25,579	30,854	34,922	11,464	140	7,457	15,861	
U. Maryland, Baltimore County	33	15,158	15,087	20,378	34,435	25,829	3,998	4,275	333	
U. North Carolina, Chapel Hill	34	19,242	16,879	23,339	34,095	0	6,770	20,908	6,417	
Princeton U.	35	23,819	29,203	29,942	33,668	16,488	8,817	0	8,363	
Pennsylvania State U., University Park and Hershey Medical Center	36	41,590	31,930	35,715	33,406	13,193	16,417	3,796	0	
Harvard U.	37	43,505	38,756	38,984	30,302	7,192	10,324	367	12,419	
Florida International U.	38	16,023	16,584	18,793	29,061	8,661	4,172	16,228	0	
Massachusetts Institute of Technology	39	32,718	30,961	29,992	28,790	11,107	9,244	4,540	3,899	
U. Southern Mississippi	40	29,843	26,110	27,927	28,664	0	7,896	5,443	15,325	
Desert Research Institute	41	22,889	22,791	24,804	27,742	7,405	20,052	0	285	
U. Maine	42	24,874	24,778	25,600	27,518	175	9,057	18,285	1	
U. Delaware	43	17,697	18,173	33,416	26,658	0	4,817	11,565	10,276	
U. Georgia	44	20,493	17,846	19,938	25,512	0	5,712	19,800	0	
U. Alabama, Huntsville	45	17,304	17,960	23,111	24,941	22,060	2,767	114	0	
U. South Florida ^c	46	24,670	19,373	22,129	24,544	406	6,979	17,159	0	
U. Illinois, Urbana-Champaign	47	6,281	5,521	6,575	23,906	7,695	16,211	0	0	
U. Wyoming	48	12,944	11,251	19,400	21,692	6,957	14,471	188	76	
U. Southern California	49	19,983	14,323	22,308	20,785	0	10,697	10,088	0	
Florida State U.	50	20,816	16,252	17,014	20,511	4,957	3,594	10,260	1,700	
U. Florida	51	17,740	16,189	18,734	19,578	0	11,811	7,767	0	
U. Michigan, Ann Arbor	52	14,928	15,080	15,865	19,164	0	19,164	0	0	
U. Nevada, Reno	53	15,077	19,030	20,831	19,059	514	17,197	769	579	
George Mason U.	54	10,679	12,577	14,205	17,068	7,549	8,533	680	306	
U. Minnesota, Twin Cities	55	14,715	13,634	13,095	16,935	0	16,935	0	0	
U. Alabama, Tuscaloosa	56	3,062	4,302	5,895	16,822	0	14,248	2,574	0	
Michigan Technological U.	57	13,896	16,272	19,663	16,557	4,329	134	9,053	3,041	
Mississippi State U.	58	17,335	15,520	16,607	16,521	1,566	7,435	7,352	168	
New Mexico Institute of Mining and Technology	58	6,729	7,309	15,847	16,521	0	16,521	0	0	
U. Massachusetts, Dartmouth	60	10,917	12,196	13,329	16,141	0	0	16,141	0	
San Jose State U.	61	13,747	14,857	16,303	16,140	2,300	769	12,385	686	
U. Kansas	62	10,485	11,923	13,717	15,975	950	15,025	0	0	
Texas A&M U.-Corpus Christi	63	11,900	12,296	14,478	15,556	684	1,761	9,784	3,327	

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(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					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
SUNY, U. Albany	64	15,523	15,605	15,821	15,430	13,485	1,945	0	0
U. Hawaii, system office	65	11,853	11,591	12,125	13,598	13,401	0	0	197
U. Pittsburgh, Pittsburgh	66	10,875	9,952	11,232	13,409	0	3,517	0	9,892
Brown U.	67	5,954	7,954	9,945	13,244	577	2,468	126	10,073
Georgia Institute of Technology	68	12,904	13,998	14,771	13,138	458	12,226	454	0
Colorado School of Mines	69	8,916	5,713	9,411	13,053	50	12,253	273	477
U. California, Riverside	70	10,855	10,303	11,310	12,654	0	3,330	0	9,324
U. Houston	71	9,437	9,292	10,320	12,509	7,620	4,063	434	392
Nova Southeastern U.	72	11,436	10,973	11,526	12,274	0	26	12,248	0
U. Connecticut	73	9,186	10,483	11,254	11,951	0	1,775	10,176	0
Texas Tech U.	74	8,913	9,282	11,018	11,667	614	7,038	0	4,015
U. South Alabama	75	5,011	4,466	4,841	11,611	0	285	11,326	0
U. California, Berkeley	76	9,845	7,857	8,644	11,609	10	11,599	0	0
Montana Technological U.	77	7,825	8,222	8,666	11,289	0	11,289	0	0
U. California, Irvine	78	12,705	13,034	11,555	11,236	133	11,103	0	0
Naval Postgraduate School	79	6,566	6,591	5,148	11,189	6,620	273	4,013	283
U. Utah	80	20,011	47,024	9,233	11,126	5,647	5,479	0	0
Washington State U.	81	9,440	8,946	10,772	10,521	163	1,919	0	8,439
Boston U.	82	8,573	7,876	9,399	10,080	0	10,070	10	0
U. Chicago	83	9,090	8,854	10,117	10,053	0	10,053	0	0
Duke U.	84	9,675	7,310	8,178	9,796	0	1,742	8,054	0
Ohio State U.	85	9,158	7,979	9,228	9,777	0	9,777	0	0
Boston C.	86	5,836	7,414	9,912	9,394	7,055	2,339	0	0
U. South Carolina, Columbia	87	9,378	9,609	8,202	9,266	0	120	9,146	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	88	5,241	4,607	8,933	9,202	0	9,202	0	0
Purdue U., West Lafayette	89	10,166	7,578	8,127	9,201	9,201	0	0	0
U. Wisconsin-Milwaukee	90	7,288	7,385	9,026	9,007	2,127	709	6,171	0
U. of the Virgin Islands	91	3,639	6,508	8,729	8,729	0	278	6,000	2,451
Morgan State U.	92	3,384	3,298	5,672	8,663	0	8,663	0	0
U. Oregon	93	6,704	6,060	5,895	8,392	0	6,556	1,836	0
U. North Carolina, Wilmington	94	5,206	4,311	6,351	7,843	0	92	7,043	708
U. Guam	95	2,696	5,047	6,937	7,715	0	514	6,960	241

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Tulane U.	96	4,825	4,217	4,967	7,662	0	7,662	0	0	
Yale U.	97	5,916	7,021	6,411	7,593	0	7,593	0	0	
Michigan State U.	98	5,435	5,695	6,532	7,557	0	7,339	0	218	
U. New Mexico	99	6,924	6,727	7,336	7,551	337	7,120	94	0	
Texas State U.	100	7,357	7,338	8,853	7,467	0	2,246	0	5,221	
U. North Dakota	101	6,781	6,234	6,874	7,444	6,852	592	0	0	
Saint Louis U.	102	1,174	2,264	3,879	7,307	476	6,831	0	0	
U. Virginia, Charlottesville	103	6,040	5,356	6,392	7,041	0	0	0	7,041	
Washington U., Saint Louis	104	5,509	6,083	6,678	6,986	0	6,986	0	0	
U. Central Florida	105	4,008	3,951	5,319	6,932	6,932	0	0	0	
Indiana U., Bloomington	106	8,053	7,960	9,084	6,894	3,689	1,542	293	1,370	
East Carolina U.	107	4,586	4,564	4,751	6,772	0	2,172	4,600	0	
SUNY, U. Buffalo	108	3,739	4,912	4,848	6,700	125	6,529	44	2	
Rice U.	109	5,152	4,786	4,738	6,249	0	6,249	0	0	
Montana State U., Bozeman	110	5,603	5,468	5,246	6,124	0	4,322	0	1,802	
U. Toledo	111	5,748	5,309	5,367	6,117	0	6,024	0	93	
Virginia Polytechnic Institute and State U.	112	3,068	3,534	4,652	6,047	140	5,696	36	175	
U. Montana, Missoula	113	5,878	6,212	5,818	5,945	7	1,960	3,978	0	
U. Nevada, Las Vegas	114	6,342	6,082	5,393	5,803	97	5,204	0	502	
Cornell U.	115	8,145	6,589	6,463	5,762	29	5,446	287	0	
Southern Methodist U.	116	6,100	5,367	4,956	5,716	0	5,716	0	0	
Northern Arizona U.	117	7,408	6,790	5,396	5,518	198	3,889	0	1,431	
Florida A&M U.	118	5,844	5,633	6,499	5,377	0	0	4,862	515	
U. Idaho	119	4,933	4,803	5,991	5,351	231	5,060	0	60	
Auburn U., Auburn	120	3,460	4,008	4,791	5,277	174	3,505	240	1,358	
Northeastern U.	121	4,039	4,044	5,122	5,205	0	840	4,365	0	
Iowa State U.	122	4,538	5,650	4,897	5,103	0	5,103	0	0	
West Virginia U.	123	9,625	3,965	5,177	5,036	0	3,819	0	1,217	
U. Louisiana, Lafayette	124	5,426	6,277	4,439	4,887	0	2,970	892	1,025	
U. Massachusetts, Amherst	125	4,265	3,582	4,378	4,835	0	4,835	0	0	
U. Texas, San Antonio	126	2,354	3,429	4,787	4,765	0	2,632	0	2,133	
U. Texas, El Paso	127	3,426	3,757	4,565	4,729	0	4,719	0	10	

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U. Vermont	128	2,716	3,237	4,278	4,650	3,052	940	0	658	
New Mexico State U.	129	5,381	5,067	4,830	4,514	338	2,270	0	1,906	
Old Dominion U.	130	4,166	3,775	3,787	4,434	0	0	4,259	175	
U. Memphis	131	5,493	4,089	4,298	4,386	8	4,322	0	56	
U. Massachusetts, Boston	132	3,848	2,960	3,666	4,352	0	2,184	2,150	18	
Boise State U.	133	3,660	3,129	2,927	4,255	71	3,391	0	793	
Oklahoma State U., Stillwater	134	2,870	3,119	3,663	4,254	0	4,250	4	0	
Baylor U.	135	2,185	2,731	3,569	4,243	2,501	1,518	148	76	
U. Washington, Tacoma	136	2,089	2,838	3,535	3,991	0	0	3,991	0	
U. Wisconsin-Superior	137	30	11	28	3,952	0	0	3,952	0	
U. Tennessee, Knoxville	138	5,322	5,062	2,609	3,939	0	3,119	0	820	
U. California, Merced	139	2,943	3,849	4,454	3,811	283	2,082	38	1,408	
Florida Gulf Coast U.	140	1,654	2,475	2,791	3,744	51	86	3,516	91	
Vanderbilt U. and Vanderbilt U. Medical Center	141	1,919	1,861	1,737	3,637	0	3,637	0	0	
Syracuse U.	142	3,060	3,005	2,463	3,549	0	3,449	0	100	
U. Kentucky	143	2,966	3,356	2,948	3,438	0	3,438	0	0	
U. Iowa	144	2,441	1,971	3,663	3,415	0	1,504	0	1,911	
U. Maryland, Eastern Shore	145	3,454	4,182	3,778	3,388	0	0	3,388	0	
U. Nebraska, Lincoln and Medical Center ^d	146	na	na	na	3,364	0	3,364	0	0	
California State U., Monterey Bay	147	1,281	1,953	2,702	3,299	54	275	2,628	342	
Emory U.	148	1,075	2,217	2,792	3,189	0	0	0	3,189	
Rutgers, State U. New Jersey, Newark	149	1,485	1,873	2,487	3,154	0	3,154	0	0	
U. Rochester	150	3,104	2,536	2,724	3,103	0	3,103	0	0	
Florida Institute of Technology	151	2,310	3,254	1,985	3,062	1,697	65	1,245	55	
San Francisco State U.	152	3,759	3,975	4,988	3,055	399	606	1,896	154	
Western Michigan U. and Homer Stryker M.D. School of Medicine	153	1,402	1,660	2,077	3,043	0	3,043	0	0	
Western Washington U.	154	3,897	3,379	3,298	3,008	0	1,804	1,204	0	
Grand Valley State U.	155	2,887	2,803	2,928	2,990	0	5	0	2,985	
U. Arkansas, Fayetteville	156	3,499	5,686	5,333	2,987	107	211	0	2,669	
San Diego State U.	157	2,234	2,158	2,900	2,911	0	1,445	1,015	451	
U. Alaska, Anchorage	158	7,339	5,735	5,286	2,790	280	680	1,830	0	
U. Texas Rio Grande Valley	159	1,769	1,649	1,981	2,766	0	360	2,277	129	

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Salisbury U.	160	891	988	882	2,719	0	877	0	1,842
U. Puerto Rico, Rio Piedras	161	3,754	3,409	2,586	2,644	0	2,344	300	0
U. North Carolina, Charlotte	162	1,009	1,054	1,077	2,523	631	1,892	0	0
Ohio U.	163	1,697	2,183	2,847	2,475	34	2,441	0	0
Utah State U.	164	511	2,146	2,173	2,460	1,148	1,312	0	0
Montclair State U.	165	1,262	1,815	2,393	2,352	0	1,844	391	117
U. Pennsylvania	166	1,760	1,929	1,856	2,293	0	2,293	0	0
U. Mississippi	167	1,151	1,306	1,614	2,219	9	1,847	335	28
Coastal Carolina U.	168	1,690	1,415	1,573	2,214	240	154	1,820	0
C. Charleston	169	1,048	1,156	2,470	2,157	142	1,441	451	123
Portland State U.	170	2,212	1,818	1,826	2,147	660	1,383	104	0
Southern Illinois U., Carbondale	171	848	1,643	1,522	2,121	0	1,137	0	984
Embry-Riddle Aeronautical U.	172	1,336	1,200	1,823	2,085	2,085	0	0	0
Bowling Green State U.	173	1,903	1,875	1,679	2,062	0	530	1,532	0
Central Washington U.	174	1,525	1,204	1,394	2,043	0	2,043	0	0
Tarleton State U.	175	3,188	3,745	2,594	2,037	0	994	0	1,043
Sonoma State U.	176	571	1,617	1,938	2,019	0	47	338	1,634
Tufts U.	177	472	377	982	2,008	0	1,963	7	38
U. Hawaii, Hilo	178	894	1,195	1,770	1,981	0	845	1,093	43
U. Puerto Rico, Mayaguez	179	5,487	2,014	4,127	1,976	0	790	1,186	0
California State U., Northridge	180	2,158	731	1,181	1,969	0	1,235	317	417
Rensselaer Polytechnic Institute	181	2,837	1,868	2,214	1,961	0	1,961	0	0
Idaho State U.	182	1,792	1,627	2,092	1,893	0	1,400	0	493
Georgia State U.	183	1,104	1,500	2,276	1,883	0	1,883	0	0
Hampton U.	184	3,454	2,881	2,576	1,880	952	0	925	3
Monmouth U.	185	1,621	1,492	1,572	1,838	0	0	1,838	0
Northwestern U.	186	1,351	1,342	1,443	1,795	0	1,795	0	0
Carleton C.	187	863	900	1,374	1,775	0	1,775	0	0
California Polytechnic State U., San Luis Obispo	188	1,105	1,106	2,006	1,768	0	0	1,768	0
SUNY, C. of Environmental Science and Forestry	189	1,211	995	1,896	1,743	58	1,224	165	296
Alaska Pacific U.	190	1,196	1,005	1,548	1,735	0	43	1,367	325
U. Missouri, Columbia	191	988	1,249	1,575	1,728	0	1,728	0	0

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					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, City C.	192	1,699	1,600	2,547	1,627	0	1,627	0	0
Occidental C.	193	1,086	1,201	1,416	1,621	0	189	1,432	0
Indiana U.-Purdue U., Indianapolis	194	1,272	938	1,393	1,598	0	1,598	0	0
Carnegie Mellon U.	195	448	364	736	1,549	597	918	25	9
Rowan U.	195	409	397	494	1,549	0	1,549	0	0
Northern Illinois U.	197	553	803	1,320	1,540	204	735	0	601
SUNY, Binghamton U.	197	1,916	1,636	1,789	1,540	0	1,540	0	0
U. Cincinnati	199	1,171	913	993	1,489	0	1,489	0	0
Kent State U.	200	958	1,038	1,088	1,472	131	1,031	139	171
Pennsylvania State U., Behrend	201	250	1,249	1,727	1,466	0	17	1,449	0
Delaware State U.	202	385	377	752	1,451	0	106	1,345	0
Lehigh U.	203	1,510	1,087	1,124	1,439	0	1,408	0	31
U. Massachusetts, Lowell	204	2,177	2,614	2,493	1,436	0	1,436	0	0
Clark U.	205	1,890	1,197	843	1,430	83	1,099	248	0
Brigham Young U., Provo	206	461	853	787	1,351	0	1,351	0	0
U. Illinois, Chicago	207	1,021	943	948	1,331	0	1,331	0	0
Temple U.	208	2,044	2,108	1,498	1,323	0	1,323	0	0
SUNY, Buffalo State U.	209	895	869	1,098	1,276	0	375	0	901
Air Force Institute of Technology	210	742	175	1,025	1,271	1,271	0	0	0
California State Polytechnic U., Humboldt	211	1,464	1,141	863	1,264	0	112	974	178
CUNY, Hunter C.	212	1,339	1,010	1,197	1,258	0	893	0	365
Heidelberg U.	213	1,125	1,725	1,184	1,254	0	0	1,254	0
U. Texas, Arlington	214	877	867	668	1,228	0	1,228	0	0
South Dakota State U.	215	904	801	953	1,193	0	1,193	0	0
George Washington U.	216	436	175	288	1,115	0	408	0	707
American U.	217	642	1,035	1,091	1,082	0	0	0	1,082
SUNY, C. Plattsburgh	218	824	813	905	1,078	0	167	911	0
James Madison U.	219	753	628	870	1,073	0	1,073	0	0
CUNY, Brooklyn C.	220	645	504	222	1,023	0	1,023	0	0
Lincoln U., Jefferson City	221	0	60	28	996	0	0	0	996
Appalachian State U.	222	499	357	987	986	539	447	0	0
Texas Christian U.	223	248	121	307	980	0	740	193	47

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					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. Texas, Dallas	224	856	598	815	973	0	973	0	0
Stockton U.	225	2,789	885	798	964	45	0	919	0
Wesleyan U.	226	821	450	632	963	0	963	0	0
Western Kentucky U.	226	842	1,013	1,142	963	106	857	0	0
Colgate U.	228	453	677	728	960	0	765	0	195
Villanova U.	229	826	443	565	952	0	735	217	0
U. New Orleans	230	1,585	1,244	1,576	947	0	941	6	0
Central Michigan U.	231	677	557	683	933	463	259	201	10
California State U., Fullerton	232	329	229	414	902	0	518	378	6
U. Colorado Denver ^e	233	na	379	650	893	880	13	0	0
Florida Atlantic U.	234	1,186	2,013	1,332	890	377	0	0	513
Georgia Southern U.	235	719	890	642	884	0	357	458	69
Roger Williams U.	236	730	777	506	883	16	0	812	55
CUNY, Graduate Center	237	0	0	3	881	0	538	232	111
California State U., Sacramento	238	839	752	808	850	0	850	0	0
Amherst C.	239	439	567	1,265	845	0	845	0	0
Case Western Reserve U.	240	523	536	634	812	0	812	0	0
Miami U.	241	1,354	1,071	829	768	0	767	0	1
U. Dayton	242	359	465	851	743	534	209	0	0
New York U.	243	401	436	800	732	0	405	327	0
Austin Peay State U.	244	596	611	635	716	0	716	0	0
CUNY, Queens C.	245	817	402	561	680	0	680	0	0
California State U., East Bay	246	1,029	927	816	671	0	671	0	0
U. Minnesota, Duluth	247	2,480	451	528	621	0	621	0	0
Illinois State U.	248	788	591	491	620	0	620	0	0
Murray State U.	249	134	139	249	614	0	614	0	0
U. Northern Colorado	250	296	147	202	602	165	437	0	0
Middlebury C.	251	240	425	513	585	0	274	0	311
Hawaii Pacific U.	252	220	289	947	574	0	0	574	0
CUNY, Advanced Science Research Center	253	104	1,030	365	570	0	533	37	0
U. Scranton	254	ne	ne	ne	561	561	0	0	0
U. North Texas, Denton	255	2,064	1,879	687	538	0	538	0	0

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					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. Wisconsin-Stevens Point	256	226	368	338	529	0	529	0	0
Savannah State U.	257	728	815	694	522	146	0	296	80
CUNY, York C.	258	527	543	953	518	0	518	0	0
California State U., Long Beach	259	514	226	399	514	0	514	0	0
Franklin and Marshall C.	259	232	119	305	514	0	428	28	58
Towson U.	261	709	481	654	508	0	508	0	0
Bowdoin C.	262	635	328	349	490	0	166	324	0
California State U., Chico	263	395	426	624	485	0	485	0	0
Western Carolina U.	264	297	314	313	484	0	98	386	0
Wright State U.	265	210	163	418	474	0	474	0	0
North Dakota State U.	266	553	680	804	472	0	471	0	1
DePaul U.	267	91	276	88	456	0	413	0	43
Marshall U.	267	258	404	239	456	0	2	0	454
Oregon Institute of Technology	269	312 i	328 i	387 i	444 i	0 i	0 i	0 i	444 i
U. New England	270	936	867	662	440	0	0	415	25
U.S. Naval Academy	271	775	649	550	439	0	0	439	0
Wellesley C.	272	161	86	169	420	0	240	180	0
Skidmore C.	273	632	320	547	394	0	394	0	0
U. Missouri, Kansas City	274	308	190	285	388	0	334	51	3
Williams C.	275	195 i	200 i	337 i	384 i	0 i	384 i	0 i	0 i
Southern Connecticut State U.	276	253	300	386	372	7	12	353	0
U. Alaska, Southeast	276	222	228	493	372	0	283	89	0
Chapman U.	278	212	304	324	364	22	50	0	292
Union C., Schenectady	279	154	252	181	344	26	316	0	2
Bryn Mawr C.	280	260	151	189	337	0	337	0	0
Spelman C.	281	0	0	0	336	336	0	0	0
SUNY, Oswego	282	73	71	64	332	64	268	0	0
Pomona C.	283	274	193	272	328	0	195	0	133
West Texas A&M U.	284	219	688	305	322	313	0	0	9
Southern Illinois U., Edwardsville	285	1,979	2,542	604	321	0	152	0	169
U. Hawaii, Maui C.	286	ne	144	ne	313	0	0	313	0
Johnson C. Smith U.	287	0	0 i	0	308	0	0	308	0

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					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
St. Edward's U.	288	528	478	0	304	304	0	0	0
U. Wisconsin-Eau Claire	289	8	69	135	302	0	302	0	0
Hobart and William Smith Colleges	290	148	23	288	300	298	1	0	1
Kansas State U.	291	1,479	1,130	1,295	299	0	299	0	0
East Tennessee State U.	292	0 i	26 i	18 i	298	0	298	0	0
U. Washington, Bothell	293	371	405	351	293	159	48	31	55
U. South Carolina, Beaufort	294	ne	ne	ne	289	0	0	289	0
South Carolina State U.	295	213 i	234 i	256 i	278	0	278	0	0
U. San Francisco	296	106	204	374	272	150	83	0	39
Hamilton C.	297	15	1	52	270	0	270	0	0
CUNY, Baruch C.	298	198	44	102	269	0	0	269	0
North Carolina Central U.	299	321	294	234	261 i	0 i	221 i	0 i	40 i
U. Akron	299	285	467	659	261	0	261	0	0
Trinity U.	301	56	96	194	257	0	257	0	0
U. Puerto Rico, Medical Sciences Campus	302	136	265	264	250	0	250	0	0
Providence C.	303	160	144	ne	248	17	0	231	0
California State U., San Bernardino	304	87	51	75	239	0	232	7	0
Hofstra U.	304	4	53	410	239	1	7	52	179
New School	304	537	169	192	239	0	0	0	239
Macalester C.	307	390	221	223	238	0	238	0	0
Barnard C.	308	60	164	76	236	209	0	0	27
California State U., Los Angeles	308	0	23	202	236	0	236	0	0
Duquesne U.	308	584	510	886	236	0	236	0	0
California State U., San Marcos	311	47	13	123	229	0	66	163	0
Missouri State U.	312	95	177	337	228	62	166	0	0
U. Colorado Colorado Springs	313	173	141	187	227	133	65	0	29
Vassar C.	314	0	17	51	223	0	223	0	0
California State U., Fresno	315	147	379	7	221	0	221	0	0
U. of the Pacific	315	0	43	53	221	0	221	0	0
Whitman C.	315	23	ne	121	221	0	221	0	0
Wheaton C., Wheaton	318	130	81	ne	217	0	217	0	0
Texas A&M U.-Kingsville	319	849	0	242	215	0	0	0	215

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					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. North Carolina, Asheville	320	84	260	96	212	90	10	0	112
U. Northern Iowa	321	142	151	129	210	0	0	0	210
Willamette U.	322	4	53	119	197	0	197	0	0
California State U., Bakersfield	323	176	134	69	194	0	194	0	0
U. San Diego	324	163	226	185	190	0	38	152	0
U. Colorado Anschutz Medical Campus ^e	325	na	212	71	183	183	0	0	0
Wayne State U.	326	296	288	193	182	0	182	0	0
Virginia Commonwealth U.	327	354	278	269	180	0	0	0	180
Indiana U. Pennsylvania	328	161	33	234	178	0	172	0	6
Middle Tennessee State U.	328	48	126	229	178	0	178	0	0
U. Nebraska, Omaha	330	18	34	56	177	0	177	0	0
C. Wooster	331	59	137	188	176	0	176	0	0
Furman U.	332	47	78	132	172	0	172	0	0
Lewis and Clark C.	333	212	280	222	171	0	167	0	4
Clarkson U.	334	59	172	112	170	0	100	70	0
U. Southern Maine	335	42	18	64	169	17	21	131	0
Minnesota State U., Mankato	336	1	13	8	168	0	168	0	0
Colorado C.	337	96	114	806	164	0	164	0	0
Central State U.	338	126	102	124	163	0	163	0	0
Wichita State U.	339	44	320	0	162	0	162	0	0
U. Texas of the Permian Basin	340	0	0	77	161	0	161	0	0
St. Mary's C. Maryland	341	ne	ne	ne	158	0	0	158	0
Eastern Michigan U.	342	172	108	139	157	0	107	50	0
Ithaca C.	343	6	114	80	154	135	19	0	0
New Mexico Highlands U.	344	189	81	116	151	0	151	0	0
Rockefeller U.	344	986	660	800	151	0	0	0	151
U. of the District of Columbia	346	41	177	183	146	0	146	0	0
U.S. Military Academy	347	98	2	26	144	0	0	0	144
Bentley U.	348	ne	ne	13	138	0	0	138	0
Indiana State U.	349	120	74	139	137	0	137	0	0
Northeast Ohio Medical U.	349	0	5	6	137	0	137	0	0
U. Tulsa	349	213	202	192	137	0	137	0	0

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					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. Richmond	352	62	218	369	135	0	135	0	0
Troy U.	353	49	31	71	133	0	3	112	18
Stephen F. Austin State U.	354	177	121	62	132	0	132	0	0
U. New Haven	354	143	93	151	132	63	0	69	0
U. North Georgia	354	133	132	137	132	0	132	0	0
Kean U.	357	301	61	53	129	0	0	86	43
Smith C.	358	36	228	120	128	0	128	0	0
U. Louisiana, Monroe	359	46	64	103	127	127	0	0	0
Bucknell U.	360	12 i	10	40	126	0	126	0	0
Gustavus Adolphus C.	361	ne	ne	ne	124	0	124	0	0
U. South Carolina, Aiken	361	119	0	0	124	0	35	89	0
U. Wisconsin-Green Bay	363	90 i	82 i	114 i	121 i	0 i	121 i	0 i	0 i
Mount Holyoke C.	364	0	0	90	119	0	119	0	0
U. Texas, Tyler	364	2	0	0	119	0	24	75	20
Bates C.	366	119	37	65	118	0	118	0	0
William Paterson U.	367	579	487	328	114	6	95	0	13
St. Olaf C.	368	38	71	ne	111	30	2	79	0
U. Denver	369	168	52	96	110	29	62	0	19
Texas A&M International U.	370	84	39	53	106	0	106	0	0
U. Puerto Rico, Humacao	371	0	17	92	105	0	0	0	105
Youngstown State U.	372	2	0	2	104	0	104	0	0
Northland C.	373	ne	78 i	90 i	102 i	0 i	87 i	0 i	15 i
Colby C.	374	193	187	376	101	0	101	0	0
Northern Michigan U.	375	91	101	149	100	0	100	0	0
Utah Valley U.	376	ne	ne	140	96	0	96	0	0
California State U., Dominguez Hills	377	13	8	15	95	0	95	0	0
Illinois Institute of Technology	378	398	224	146	94	14	80	0	0
Haverford C.	379	229 i	145 i	115 i	92 i	0 i	82 i	0 i	10 i
Oberlin C.	380	93	27	ne	88	9	79	0	0
Sam Houston State U.	381	72	124	196	86	0	86	0	0
California State U., Channel Islands	382	0	0	0	82	0	0	0	82
Lafayette C.	383	8	5	13	80	0	80	0	0

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023				
					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
Norwich U.	384	ne	ne	ne	77	0	77	0	0
U. Central Arkansas	385	20	22	0	75	0	75	0	0
Albion C.	386	84	616 i	345 i	73	0	73	0	0
Suffolk U.	386	28	28	14	73	0	73	0	0
Fort Valley State U.	388	0	82	79	70	0	70	0	0
U. Louisville	389	180	185	166	65	36	29	0	0
U. Puget Sound	389	1	ne	42	65	10	2	0	53
West Chester U. Pennsylvania	389	65	55	31	65	0	48	17	0
Northwest Indian C.	392	43 i	52 i	60	64 i	0 i	0 i	64 i	0 i
Fordham U.	393	0	0	0	60	60	0	0	0
Long Island U.	394	345	261	372	59	0	59	0	0
Nevada State C.	394	ne	ne	82	59	0	0	0	59
SUNY, Geneseo	396	239	212	82	55	0	55	0	0
CUNY, C. Staten Island	397	0	0	25	54	0	54	0	0
Clafin U.	398	37	26	105	53	52	1	0	0
U.S. Air Force Academy	398	0	34	120	53	0	7	0	46
Tennessee Technological U.	400	60	24	14	51	0	51	0	0
Virginia State U.	401	0	8	37	45	45	0	0	0
Northeastern Illinois U.	402	50	68	54	44	44	0	0	0
CUNY, Lehman C.	403	37	20	44	43	0	43	0	0
Hope C.	403	20	59	47	43	0	43	0	0
Pennsylvania State U., Harrisburg	405	5	22	6	39	39	0	0	0
U. Wisconsin-La Crosse	405	35	18	35	39	0	39	0	0
Texas A&M U.-San Antonio	407	ne	ne	10	38	0	0	0	38
Eastern Washington U.	408	58	61	17	37	0	37	0	0
Gallaudet U.	409	10	2	0	36	0	36	0	0
Citadel Military C. South Carolina	410	0	0	0	35	8	15	12	0
Fort Lewis C.	410	56	46	3	35	0	2	0	33
Dillard U.	412	0	87	89	33	0	33	0	0
U. North Carolina, Greensboro	413	0	0	135	31	0	31	0	0
Calvin U.	414	21 i	30 i	39 i	30 i	0 i	30 i	0 i	0 i
Eastern Connecticut State U.	414	101	143	8	30	0	18	12	0

TABLE 40

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2023 geosciences, atmospheric sciences, and ocean sciences: FYs 2020–23 and by subfield for FY 2023

(Dollars in thousands)

Institution	Rank	2020	2021	2022	2023					
					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. Houston-Downtown	414	94	52	14	30	0	0	30	0	
U. Missouri, Saint Louis	417	0	0	0	28	4	0	0	24	
U. Wisconsin-Oshkosh	417	126 i	126	43	28	0	28	0	0	
U. of Mary Washington	419	97	54	57	25	0	18	0	7	
Andrews U.	420	45	32	ne	21	0	0	21	0	
New C. Florida	420	ne	ne	ne	21	0	0	21	0	
U.S. Coast Guard Academy	422	ne	ne	ne	20	7	0	13	0	
Grambling State U.	423	0	0	24 i	16	16	0	0	0	
Radford U.	424	ne	ne	ne	14	0	12	0	2	
Loyola Marymount U.	425	489	527	13	13	0	8	0	5	
Des Moines U.	426	197	459 i	600	12	0	12	0	0	
Central Connecticut State U.	427	91	79	5	10	0	10	0	0	
Seattle U.	427	42	54	0	10	0	10	0	0	
U. North Florida	429	10	21	213	9	0	0	0	9	
U. West Florida	429	875	18	92	9	0	9	0	0	
St. Cloud State U.	431	217	128	12	8	0	2	0	6	
Bryant U.	432	ne	ne	ne	7	7	0	0	0	
Fairfield U.	433	1	0	ne	6	6	0	0	0	
Lamar U.	433	0	24	0	6	0	6	0	0	
U. of the Incarnate Word	433	0	0	0	6	0	6	0	0	
U. Virginia's C. Wise	433	ne	0	0	6	0	6	0	0	
U. of St. Thomas (MN)	437	18	222	7	5	0	5	0	0	
California State Polytechnic U., Pomona	438	68	151	13	4	0	4	0	0	
Claremont McKenna C.	438	29	17	4	4	0	0	0	4	
U. Tennessee, Chattanooga	438	0	0	0	4	0	4	0	0	
California State U., Stanislaus	441	1	13	2	2	0	2	0	0	
Prairie View A&M U.	441	62	0	0	2	0	2	0	0	
Tougaloo C.	441	0	0 i	0 i	2 i	1 i	0 i	1 i	0 i	
Alfred U.	444	1	1	1	1	0	0	0	1	
All other surveyed institutions	-	11,586	4,469	3,678	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 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.

^b Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$59,300 thousand imputed for total R&D expenditures in geosciences, atmospheric sciences, and ocean sciences in FY 2023. 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.

^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 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.

^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.