

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
United States	108,681,008	3,617,348	4,032,534	62,204,360	1,060,700	6,944,769	1,637,829	3,615,227	1,194,804	17,468,446	6,904,991
Public	71,001,044	2,194,296	3,221,273	38,574,747	579,196	4,443,444	1,237,096	2,403,419	925,742	12,463,140	4,958,691
Private	37,679,964	1,423,052	811,261	23,629,613	481,504	2,501,325	400,733	1,211,808	269,062	5,005,306	1,946,300
Alabama	1,579,469	76,492	58,784	952,050	9,550	62,399	25,954	21,792	4,615	256,611	111,222
Public	1,553,844	75,569	58,784	933,861	8,934	60,258	25,954	21,787	4,143	253,349	111,205
Alabama A&M U.	15,588	557	0	9,197	118	1,143	310	447	0	3,018	798
Alabama State U.	3,229	255	0	2,579	141	0	0	0	0	14	240
Auburn U., Auburn	349,273	6,337	5,277	147,192	4,229	19,616	3,763	4,507	3,879	108,344	46,129
Troy U.	3,785	0	133	373	0	2,538	12	24	0	47	658
U. Alabama, Birmingham	780,479	1,013	0	721,450	169	5,624	11,715	782	0	28,505	11,221
U. Alabama, Huntsville	163,428	47,962	24,941	3,100	775	19,243	405	1,910	0	55,164	9,928
U. Alabama, Tuscaloosa	184,880	18,813	16,822	23,853	2,918	11,124	5,690	13,350	264	51,029	41,017
U. South Alabama	53,182	632	11,611	26,117	584	970	4,059	767	0	7,228	1,214
Private	25,625	923	0	18,189	616	2,141	0	5	472	3,262	17
Tuskegee U.	25,625	923	0	18,189	616	2,141	0	5	472	3,262	17
Alaska	241,536	387	116,787	48,907	338	14,078	3	6,968	18,089	33,181	2,798
Public	239,713	387	115,052	48,900	338	14,078	3	6,968	18,089	33,181	2,717
U. Alaska, Anchorage	19,850	165	2,790	9,605	0	505	0	2,384	1,440	1,878	1,083
U. Alaska, Fairbanks	218,041	222	111,890	38,729	338	13,507	3	4,498	16,108	31,211	1,535
U. Alaska, Southeast	1,822	0	372	566	0	66	0	86	541	92	99
Private	1,823	0	1,735	7	0	0	0	0	0	0	81
Alaska Pacific U.	1,823	0	1,735	7	0	0	0	0	0	0	81
Arizona	1,939,790	56,383	109,494	752,985	10,350	240,438	27,797	121,133	45,284	374,824	201,102
Public	1,939,790	56,383	109,494	752,985	10,350	240,438	27,797	121,133	45,284	374,824	201,102
Arizona State U.	903,779	33,267	59,803	179,408	2,786	59,230	17,382	93,071	30,565	265,026	163,241
Dine C.	3,054	0	0	2,551	0	0	0	0	0	147	356
Northern Arizona U.	77,533	4,797	5,518	48,110	34	7,952	196	520	1,472	5,880	3,054
U. Arizona	955,424	18,319	44,173	522,916	7,530	173,256	10,219	27,542	13,247	103,771	34,451
Arkansas	457,800	10,943	3,062	320,699	903	21,128	2,121	7,782	6,171	52,589	32,402
Public	457,800	10,943	3,062	320,699	903	21,128	2,121	7,782	6,171	52,589	32,402
Arkansas State U., Jonesboro	7,323	120	0	5,853	0	342	41	193	0	660	114
U. Arkansas for Medical Sciences	209,409	0	0	209,409	0	0	0	0	0	0	0
U. Arkansas, Fayetteville	221,525	7,865	2,987	96,316	896	19,209	2,080	7,479	5,694	49,645	29,354

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Arkansas, Little Rock	8,685	2,804	0	1,821	0	452	0	85	0	2,063	1,460
U. Arkansas, Pine Bluff	7,766	0	0	6,081	0	726	0	0	477	0	482
U. Central Arkansas	3,092	154	75	1,219	7	399	0	25	0	221	992
California	13,473,649	336,818	608,912	8,492,797	81,157	1,121,307	171,363	448,026	252,153	1,355,078	606,038
Public	9,596,502	169,561	502,552	5,946,565	67,941	754,161	138,334	320,416	237,921	1,033,384	425,667
California Polytechnic State U., San Luis Obispo	35,830	186	1,768	10,928	2,996	5,010	21	463	0	9,181	5,277
California State Polytechnic U., Humboldt	18,800	39	1,264	6,526	32	1,038	4	2,072	735	5,920	1,170
California State Polytechnic U., Pomona	10,722	432	4	4,204	106	1,453	19	93	50	1,673	2,688
California State U., Bakersfield	6,409	0	194	661	1,353	202	23	446	0	711	2,819
California State U., Channel Islands	3,992	149	82	1,854	536	357	7	197	609	0	201
California State U., Chico	5,984	3	485	2,734	25	396	0	110	0	1,465	766
California State U., Dominguez Hills	5,558	440	95	845	82	1,128	759	1,419	0	27	763
California State U., East Bay	21,312	136	671	2,537	180	999	418	936	0	155	15,280
California State U., Fresno	11,411	219	221	6,128	909	1,295	186	401	0	1,450	602
California State U., Fullerton	25,811	1,299	902	5,538	887	2,331	918	2,253	1,397	1,355	8,931
California State U., Long Beach	21,458	542	514	7,345	534	2,993	2,056	1,113	365	3,160	2,836
California State U., Los Angeles	10,186	499	236	1,272	10	4,354	249	648	0	2,149	769
California State U., Monterey Bay	10,678	1,294	3,299	5,232	204	349	0	148	0	23	129
California State U., Northridge	23,093	329	1,969	7,147	480	8,180	676	597	242	2,209	1,264
California State U., Sacramento	28,027	212	850	1,182	112	630	176	2,511	6,623	11,433	4,298
California State U., San Bernardino	13,152	1,228	239	1,559	462	3,067	3,229	349	208	1,108	1,703
California State U., San Marcos	11,443	640	229	2,102	52	1,109	894	140	4,551	937	789
California State U., Stanislaus	2,305	125	2	813	281	203	364	441	0	0	76
Naval Postgraduate School	77,364	9,987	11,189	529	2,375	4,107	365	8,103	7,577	27,413	5,719
San Diego State U.	158,013	2,902	2,911	46,665	4,198	10,039	23,094	7,749	8,999	16,138	35,318
San Francisco State U.	34,466	2,172	3,055	14,372	1,155	2,867	1,912	3,053	1,561	1,967	2,352
San Jose State U.	83,406	570	16,140	6,431	1,522	5,800	16,798	4,400	0	9,496	22,249
Sonoma State U.	4,625	0	2,019	744	724	145	68	134	84	67	640
U. California, Berkeley	1,076,754	15,434	11,609	290,429	11,060	234,242	20,253	87,836	109,018	209,311	87,562
U. California, Davis	962,399	6,959	38,078	682,290	4,722	36,471	4,171	38,849	10,491	124,470	15,898
U. California, Irvine	609,614	26,089	11,236	369,735	8,818	43,790	14,662	13,104	457	84,902	36,821
U. California, Los Angeles	1,721,665	19,118	52,655	1,222,724	11,947	61,410	20,440	86,049	58,077	113,969	75,276
U. California, Merced	62,279	1,864	3,811	10,265	1,650	6,930	365	4,460	4,708	21,052	7,174

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Colorado	2,084,784	34,831	215,173	1,075,561	10,747	225,362	32,208	41,264	17,239	336,018	96,381
Public	2,028,802	34,243	214,899	1,067,551	10,499	222,830	23,956	33,538	17,155	332,406	71,725
Colorado School of Mines	104,297	3,677	13,053	1,960	969	18,977	46	1,088	345	61,175	3,007
Colorado State U., Fort Collins	498,073	4,521	59,772	313,226	3,310	19,169	3,362	13,333	14,204	52,539	14,637
Colorado State U., Pueblo	1,624	158	0	1,395	0	0	0	63	0	8	0
Fort Lewis C.	3,372	24	35	1,054	0	725	0	0	0	628	906
U. Colorado Anschutz Medical Campus	686,026	0	183	676,151	0	521	1,487	394	0	842	6,448
U. Colorado Boulder	651,924	21,212	140,081	61,853	4,116	179,084	16,643	16,815	1,576	175,118	35,426
U. Colorado Colorado Springs	7,012	2,705	227	566	86	377	325	310	0	1,144	1,272
U. Colorado Denver	22,530	573	893	5,291	1,613	1,924	1,218	432	16	4,511	6,059
U. Northern Colorado	9,064	88	602	1,925	371	374	875	985	0	0	3,844
U.S. Air Force Academy	44,880	1,285	53	4,130	34	1,679	0	118	1,014	36,441	126
Private	55,982	588	274	8,010	248	2,532	8,252	7,726	84	3,612	24,656
Colorado C.	2,498	77	164	263	142	283	69	703	0	0	797
U. Denver	53,484	511	110	7,747	106	2,249	8,183	7,023	84	3,612	23,859
Connecticut	1,757,255	20,234	21,077	1,383,044	8,236	82,805	44,568	32,932	4,464	114,613	45,282
Public	401,244	7,342	12,383	224,016	3,112	16,416	31,387	10,048	3,503	72,977	20,060
Central Connecticut State U.	934	27	10	95	40	82	21	219	0	172	268
Eastern Connecticut State U.	1,449	65	30	83	117	7	158	34	3	0	952
Southern Connecticut State U.	8,007	196	372	1,275	14	893	319	462	381	0	4,095
U. Connecticut	390,165	6,946	11,951	222,563	2,934	15,372	30,889	9,126	3,119	72,672	14,593
U.S. Coast Guard Academy	689	108	20	0	7	62	0	207	0	133	152
Private	1,356,011	12,892	8,694	1,159,028	5,124	66,389	13,181	22,884	961	41,636	25,222
Connecticut C.	1,440	66	0	518	0	144	189	35	0	0	488
Fairfield U.	1,484	92	6	131	118	76	92	64	47	225	633
Hartford International U. for Religion and Peace	1,485	0	0	0	0	0	0	0	0	0	1,485
Sacred Heart U.	4,733	436	0	931	166	161	102	595	0	0	2,342
Trinity C., Hartford	4,099	160	0	749	226	271	314	817	0	71	1,491
U. Hartford	1,533	15	0	115	48	32	33	174	0	1,067	49
U. New Haven	3,602	992	132	404	1	131	231	1,453	0	120	138
Wesleyan U.	10,828	0	963	1,998	659	2,538	1,193	250	85	0	3,142
Yale U.	1,326,807	11,131	7,593	1,154,182	3,906	63,036	11,027	19,496	829	40,153	15,454
Delaware	461,627	13,609	28,109	110,310	7,204	62,149	12,849	27,132	13,262	162,313	24,690

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	461,627	13,609	28,109	110,310	7,204	62,149	12,849	27,132	13,262	162,313	24,690
Delaware State U.	33,499	1,071	1,451	20,808	803	5,666	473	787	1,296	419	725
U. Delaware	428,128	12,538	26,658	89,502	6,401	56,483	12,376	26,345	11,966	161,894	23,965
District of Columbia	925,418	39,874	2,379	440,837	6,991	66,946	12,810	109,392	20,556	47,222	178,411
Public	10,439	494	146	507	227	7	284	2,001	145	3,342	3,286
National Defense U.	2,494	143	0	400	0	0	0	1,951	0	0	0
U. of the District of Columbia	7,945	351	146	107	227	7	284	50	145	3,342	3,286
Private	914,979	39,380	2,233	440,330	6,764	66,939	12,526	107,391	20,411	43,880	175,125
American U.	76,041	733	1,082	1,584	1,501	4,853	1,266	18,962	5,880	0	40,180
Catholic U. of America	47,022	118	0	1,689	202	32,191	1,232	935	0	3,217	7,438
Gallaudet U.	9,894	2,868	36	3,261	102	308	521	2,028	0	0	770
George Washington U.	360,260	9,922	1,115	186,518	1,737	8,736	5,528	38,480	11,498	29,442	67,284
Georgetown U.	337,006	18,504	0	198,724	2,853	13,835	2,003	45,315	3,033	0	52,739
Howard U.	84,756	7,235	0	48,554	369	7,016	1,976	1,671	0	11,221	6,714
Florida	3,518,895	126,116	189,845	1,845,274	24,673	237,168	119,445	117,604	23,990	465,713	369,067
Public	2,914,461	116,508	110,676	1,417,400	21,821	220,354	98,077	112,955	22,322	438,776	355,572
Florida A&M U.	65,159	220	5,377	31,768	33	2,201	120	467	0	9,530	15,443
Florida Atlantic U.	77,593	4,999	890	35,633	1,112	3,509	2,749	1,089	0	17,629	9,983
Florida Gulf Coast U.	24,899	3	3,744	2,748	77	376	50	285	0	221	17,395
Florida International U.	306,434	22,726	29,061	71,169	3,628	31,704	41,054	21,873	3,554	56,199	25,466
Florida Polytechnic U.	2,260	486	0	0	30	7	0	75	0	1,404	258
Florida State U.	414,463	10,374	20,511	75,107	8,048	78,948	19,078	25,182	6,239	67,635	103,341
New C. Florida	1,080	99	21	720	43	40	14	38	0	32	73
U. Central Florida	247,259	30,129	6,932	39,523	2,971	45,916	9,837	8,249	6,424	68,340	28,938
U. Florida	1,250,201	20,449	19,578	922,704	2,928	43,930	15,487	17,586	4,575	150,126	52,838
U. North Florida	23,269	861	9	2,718	27	1,544	1,744	1,011	0	4,313	11,042
U. South Florida	461,390	18,841	24,544	232,123	2,902	10,460	7,605	33,891	1,490	62,025	67,509
U. West Florida	40,454	7,321	9	3,187	22	1,719	339	3,209	40	1,322	23,286
Private	604,434	9,608	79,169	427,874	2,852	16,814	21,368	4,649	1,668	26,937	13,495
Embry-Riddle Aeronautical U.	27,451	2,014	2,085	636	681	6,884	0	135	0	13,774	1,242
Florida Institute of Technology	16,859	3,416	3,062	1,682	210	2,408	819	0	0	5,021	241
Nova Southeastern U.	50,173	1,022	12,274	26,746	268	359	2,278	2,439	1,366	108	3,313
U. Miami	509,951	3,156	61,748	398,810	1,693	7,163	18,271	2,075	302	8,034	8,699

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Georgia	3,663,637	224,850	45,666	1,707,328	25,995	116,499	54,311	96,329	10,158	1,157,958	224,543
Public	2,445,990	218,386	42,141	635,599	21,960	76,995	48,344	90,342	8,383	1,098,146	205,694
Albany State U.	1,932	57	0	158	60	111	0	169	188	1,177	12
Augusta U.	139,121	896	0	134,668	136	187	177	94	0	0	2,963
Fort Valley State U.	15,536	0	70	15,331	17	118	0	0	0	0	0
Georgia Institute of Technology	1,405,080	198,783	13,138	42,645	9,953	39,186	4,464	7,944	0	1,061,402	27,565
Georgia Southern U.	40,026	1,032	884	7,695	1,542	6,163	1,027	4,880	50	4,200	12,553
Georgia State U.	237,493	6,583	1,883	84,391	2,428	19,102	12,584	37,953	0	0	72,569
Kennesaw State U.	32,497	4,916	0	7,045	876	323	15	426	0	3,445	15,451
Savannah State U.	1,706	0	522	318	0	85	0	74	205	502	0
U. Georgia	570,956	5,970	25,512	343,271	6,927	11,502	30,072	38,671	7,940	27,420	73,671
U. North Georgia	1,643	149	132	77	21	218	5	131	0	0	910
Private	1,217,647	6,464	3,525	1,071,729	4,035	39,504	5,967	5,987	1,775	59,812	18,849
Clark Atlanta U.	10,320	113	0	5,873	845	3,168	0	0	0	114	207
Emory U.	1,094,328	5,494	3,189	998,674	1,840	31,085	4,712	5,560	0	26,414	17,360
Mercer U.	45,247	147	0	8,788	238	1,664	268	115	159	33,284	584
Morehouse C.	5,750	641	0	400	0	2,813	46	0	1,471	0	379
Morehouse School of Medicine	57,125	0	0	57,125	0	0	0	0	0	0	0
Spelman C.	4,877	69	336	869	1,112	774	941	312	145	0	319
Hawaii	339,716	24,004	104,978	140,981	599	25,883	603	3,243	6,205	29,058	4,162
Public	336,803	23,864	104,404	138,785	599	25,883	603	3,243	6,205	29,058	4,159
U. Hawaii, Hilo	8,112	286	1,981	4,929	6	268	0	337	291	0	14
U. Hawaii, Manoa	313,143	22,818	88,512	133,335	593	25,554	603	2,906	5,914	29,058	3,850
U. Hawaii, Maui C.	1,376	186	313	521	0	61	0	0	0	0	295
U. Hawaii, system office	14,172	574	13,598	0	0	0	0	0	0	0	0
Private	2,913	140	574	2,196	0	0	0	0	0	0	3
Hawaii Pacific U.	2,913	140	574	2,196	0	0	0	0	0	0	3
Idaho	206,438	10,385	11,499	112,377	1,528	12,074	731	6,592	5,061	35,752	10,439
Public	206,438	10,385	11,499	112,377	1,528	12,074	731	6,592	5,061	35,752	10,439
Boise State U.	52,989	3,449	4,255	12,924	646	7,828	324	2,564	973	17,088	2,938
Idaho State U.	17,548	1,596	1,893	5,984	70	1,225	43	183	826	5,435	293
U. Idaho	135,901	5,340	5,351	93,469	812	3,021	364	3,845	3,262	13,229	7,208
Illinois	3,476,127	174,381	42,498	2,082,300	20,269	308,452	41,358	93,832	54,491	489,572	168,974

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	1,468,622	115,638	29,883	657,166	11,365	127,467	21,738	32,814	32,311	334,362	105,878
Chicago State U.	3,756	8	0	1,984	0	1,534	0	230	0	0	0
Illinois State U.	32,961	353	620	5,174	255	2,138	54	1,093	0	0	23,274
Northeastern Illinois U.	2,262	481	44	1,271	0	0	0	11	0	0	455
Northern Illinois U.	29,134	1,297	1,540	2,809	114	6,765	893	5,104	0	4,565	6,047
Southern Illinois U., Carbondale	58,291	893	2,121	38,745	133	2,547	1,348	3,644	1,618	3,183	4,059
Southern Illinois U., Edwardsville	21,927	129	321	12,048	0	955	104	212	361	6,427	1,370
U. Illinois, Chicago	492,936	12,543	1,331	347,162	5,823	28,674	4,041	11,499	12,958	46,820	22,085
U. Illinois, Springfield	2,508	0	0	3	0	0	64	930	21	0	1,490
U. Illinois, Urbana-Champaign	821,023	99,934	23,906	245,437	5,040	84,748	15,234	9,883	17,353	272,650	46,838
Western Illinois U.	3,824	0	0	2,533	0	106	0	208	0	717	260
Private	2,007,505	58,743	12,615	1,425,134	8,904	180,985	19,620	61,018	22,180	155,210	63,096
DePaul U.	13,267	1,399	456	3,609	168	16	267	544	0	106	6,702
Erikson Institute	2,414	0	0	0	0	0	0	0	0	0	2,414
Illinois Institute of Technology	33,021	3,514	94	12,293	412	3,038	0	14	158	13,311	187
Loyola U., Chicago	52,445	973	0	44,733	82	1,796	1,343	1,578	0	151	1,789
Midwestern U.	12,725	0	0	12,725	0	0	0	0	0	0	0
Northwestern U.	1,114,269	13,831	1,795	816,739	2,311	97,816	3,316	23,363	22,022	93,785	39,291
Rosalind Franklin U. of Medicine and Science	11,629	0	0	11,116	0	0	513	0	0	0	0
Rush U.	132,394	0	0	128,200	0	0	4,194	0	0	0	0
Toyota Technological Institute, Chicago	4,636	4,636	0	0	0	0	0	0	0	0	0
U. Chicago	628,302	34,390	10,053	395,289	5,931	78,200	9,445	34,694	0	47,857	12,443
Wheaton C., Wheaton	2,403	0	217	430	0	119	542	825	0	0	270
Indiana	2,146,500	109,198	17,830	978,750	13,106	156,335	33,599	97,366	36,112	511,997	192,207
Public	1,810,152	86,028	17,830	940,923	7,284	96,508	27,002	81,233	18,478	398,144	136,722
Ball State U.	11,650	56	0	5,898	100	1,277	446	570	0	32	3,271
Indiana State U.	1,327	0	137	461	0	16	0	0	0	59	654
Indiana U., Bloomington	853,056	47,950	6,894	623,240	3,010	30,417	16,940	44,795	12,069	25,104	42,637
Indiana U., South Bend	1,593	5	0	141	0	392	177	34	324	0	520
Indiana U.-Purdue U., Indianapolis	87,648	6,191	1,598	27,536	601	3,382	3,439	18,507	2,959	9,390	14,045
Purdue U., Fort Wayne	2,804	0	0	438	458	99	151	231	229	192	1,006
Purdue U., Northwest	7,504	510	0	1,035	0	302	10	0	261	3,078	2,308
Purdue U., West Lafayette	844,570	31,316	9,201	282,174	3,115	60,623	5,839	17,096	2,636	360,289	72,281

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	336,348	23,170	0	37,827	5,822	59,827	6,597	16,133	17,634	113,853	55,485
Butler U.	1,396	0	0	821	4	406	11	28	0	0	126
Marian U., Indianapolis	3,009	0	0	1,774	43	33	0	9	569	0	581
U. Notre Dame	331,943	23,170	0	35,232	5,775	59,388	6,586	16,096	17,065	113,853	54,778
Iowa	1,102,499	11,105	8,740	659,110	21,432	97,394	13,819	16,605	2,983	198,361	72,950
Public	1,087,521	10,363	8,728	652,257	21,047	95,875	13,785	15,064	2,983	198,361	69,058
Iowa State U.	420,823	6,326	5,103	172,991	19,968	31,219	3,350	8,107	435	140,782	32,542
U. Iowa	662,134	4,037	3,415	478,820	1,074	63,779	10,435	4,172	2,535	57,579	36,288
U. Northern Iowa	4,564	0	210	446	5	877	0	2,785	13	0	228
Private	14,978	742	12	6,853	385	1,519	34	1,541	0	0	3,892
Des Moines U.	3,932	0	12	3,560	0	0	0	246	0	0	114
Drake U.	1,724	7	0	486	86	158	6	14	0	0	967
Grinnell C.	7,597	735	0	1,082	299	1,361	28	1,281	0	0	2,811
Palmer C. of Chiropractic, Davenport	1,725	0	0	1,725	0	0	0	0	0	0	0
Kansas	1,054,041	10,037	16,436	395,732	4,862	34,332	17,328	14,451	20,292	394,519	146,052
Public	1,054,041	10,037	16,436	395,732	4,862	34,332	17,328	14,451	20,292	394,519	146,052
Kansas State U.	217,992	3,858	299	129,457	3,353	12,230	4,857	10,652	8,279	30,352	14,655
Pittsburg State U.	2,979	0	0	430	0	39	0	49	0	2,461	0
U. Kansas	466,222	6,179	15,975	258,443	751	19,261	11,333	2,220	12,013	25,610	114,437
Wichita State U.	366,848	0	162	7,402	758	2,802	1,138	1,530	0	336,096	16,960
Kentucky	756,549	5,188	5,080	572,783	2,340	14,674	12,185	8,639	14,764	90,056	30,840
Public	756,549	5,188	5,080	572,783	2,340	14,674	12,185	8,639	14,764	90,056	30,840
Eastern Kentucky U.	1,446	0	0	458	0	598	8	63	0	69	250
Kentucky State U.	11,591	13	0	11,578	0	0	0	0	0	0	0
Morehead State U.	2,658	0	0	389	0	0	123	5	0	2,141	0
Murray State U.	3,193	0	614	1,908	166	481	0	0	0	0	24
Northern Kentucky U.	3,790	52	0	1,864	155	505	674	182	5	0	353
U. Kentucky	504,005	5,019	3,438	381,193	1,448	8,370	6,526	6,340	14,176	62,529	14,966
U. Louisville	220,568	91	65	171,778	519	3,003	3,767	1,653	583	24,702	14,407
Western Kentucky U.	9,298	13	963	3,615	52	1,717	1,087	396	0	615	840
Louisiana	1,064,385	46,804	54,843	620,505	14,076	60,469	5,437	21,083	14,314	126,384	100,470
Public	788,131	44,552	47,148	402,278	13,085	46,972	2,499	14,469	14,116	119,385	83,627
Grambling State U.	449	112	16	118	0	0	101	0	0	0	102

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Louisiana State U., Baton Rouge	384,268	10,527	41,171	181,370	8,112	36,946	1,077	5,824	12,114	63,779	23,348
Louisiana State U., Health Sciences Center, New Orleans	68,707	0	0	68,707	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	35,624	0	0	35,624	0	0	0	0	0	0	0
Louisiana Tech U.	31,676	2,582	0	3,732	969	2,519	184	604	0	15,078	6,008
Northwestern State U. Louisiana	2,057 i	147 i	0 i	204 i	26 i	0 i	8 i	978 i	0 i	9 i	685 i
Southeastern Louisiana U.	2,858	266	0	1,357	0	427	0	30	0	140	638
Southern U. and A&M C., Agricultural Research and Extension Center	7,764	0	0	7,764	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	5,201	417	0	1,211	100	433	0	40	0	2,338	662
Southern U., New Orleans	1,004	0	0	536	0	0	0	0	0	0	468
U. Louisiana, Lafayette	225,924	27,922	4,887	98,792	3,236	4,358	95	4,916	1,479	35,532	44,707
U. Louisiana, Monroe	2,203	0	127	1,682	0	195	0	169	0	0	30
U. New Orleans	20,396	2,579	947	1,181	642	2,094	1,034	1,908	523	2,509	6,979
Private	276,254	2,252	7,695	218,227	991	13,497	2,938	6,614	198	6,999	16,843
Dillard U.	2,296	0	33	1,498	14	163	0	1	198	85	304
Tulane U.	258,439	1,712	7,662	209,699	977	5,633	2,938	6,522	0	6,779	16,517
Xavier U. Louisiana	15,519	540	0	7,030	0	7,701	0	91	0	135	22
Maine	211,287	4,728	28,836	59,066	996	9,116	974	5,683	16,672	72,641	12,575
Public	194,620	4,309	27,687	47,646	753	7,816	742	4,915	16,672	72,641	11,439
U. Maine	188,690	2,517	27,518	46,999	718	7,816	742	2,212	16,590	72,340	11,238
U. Southern Maine	5,930	1,792	169	647	35	0	0	2,703	82	301	201
Private	16,667	419	1,149	11,420	243	1,300	232	768	0	0	1,136
Bates C.	2,118	221	118	1,378	11	175	60	73	0	0	82
Bowdoin C.	3,339	125	490	1,258	103	654	53	126	0	0	530
Colby C.	4,454	73	101	2,502	127	456	119	568	0	0	508
U. New England	6,756	0	440	6,282	2	15	0	1	0	0	16
Maryland	5,987,528	414,698	253,285	2,480,423	241,192	501,343	71,830	113,058	85,549	1,704,871	121,279
Public	2,185,943	104,870	180,747	1,215,834	10,838	168,616	63,452	101,722	21,358	211,182	107,324
Bowie State U.	2,612	892	0	1,002	14	0	0	69	0	0	635
Morgan State U.	43,868	1,109	8,663	10,795	356	3,287	286	1,864	0	10,725	6,783
Salisbury U.	14,557	357	2,719	1,962	133	396	39	532	36	3	8,380
St. Mary's C. Maryland	205	0	158	0	0	22	0	0	0	13	12
Towson U.	17,198	2,485	508	3,100	899	1,576	923	2,217	114	0	5,376
U. Baltimore	6,615	353	0	0	0	14	75	3,062	0	0	3,111

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Maryland ^a	1,385,302	80,519	87,557	719,375	6,039	135,422	11,142	72,987	18,057	183,899	70,305
U. Maryland Center for Environmental Science	53,233	0	42,880	9,006	0	132	0	318	150	0	747
U. Maryland, Baltimore County	144,262	17,976	34,435	14,790	2,353	25,604	3,086	20,411	3,001	10,631	11,975
U. Maryland, Eastern Shore	10,730	0	3,388	7,264	0	15	0	0	0	63	0
U.S. Naval Academy	10,920	1,179	439	0	1,044	2,148	0	262	0	5,848	0
Uniformed Services U. of the Health Sciences	496,441	0	0	448,540	0	0	47,901	0	0	0	0
Private	3,801,585	309,828	72,538	1,264,589	230,354	332,727	8,378	11,336	64,191	1,493,689	13,955
Johns Hopkins U. ^b	3,801,585	309,828	72,538	1,264,589	230,354	332,727	8,378	11,336	64,191	1,493,689	13,955
Massachusetts	5,174,742	264,454	310,593	2,103,132	58,559	497,004	84,952	344,163	63,583	1,059,666	388,636
Public	826,455	43,595	26,764	439,972	7,847	54,189	17,391	29,202	1,444	147,952	58,099
Framingham State U.	735	0	0	710	0	5	0	13	0	0	7
U. Massachusetts, Amherst	268,657	30,057	4,835	79,726	3,383	27,580	9,888	8,461	880	82,841	21,006
U. Massachusetts, Boston	70,978	1,944	4,352	12,213	820	3,981	6,030	12,589	564	1,298	27,187
U. Massachusetts, Dartmouth	42,018	3,116	16,141	3,229	2,210	3,547	38	313	0	11,936	1,488
U. Massachusetts, Lowell	117,336	8,478	1,436	17,363	1,434	19,076	1,435	7,826	0	51,877	8,411
U. Massachusetts, Medical School	326,731	0	0	326,731	0	0	0	0	0	0	0
Private	4,348,287	220,859	283,829	1,663,160	50,712	442,815	67,561	314,961	62,139	911,714	330,537
Amherst C.	8,152	312	845	1,485	994	1,728	333	833	524	0	1,098
Babson C.	1,957	0	0	2	55	0	0	470	0	0	1,430
Bentley U.	1,589	8	138	947	0	0	0	47	0	72	377
Boston C.	81,425	1,408	9,394	11,638	1,377	13,121	4,748	11,542	0	592	27,605
Boston U.	773,200	22,142	10,080	486,968	5,008	42,374	26,387	14,027	7,622	111,856	46,736
Brandeis U.	103,653	2,955	0	32,578	2,203	17,131	5,142	25,241	1,038	5,918	11,447
Clark U.	11,539	326	1,430	3,733	15	1,435	613	3,741	0	0	246
Franklin W. Olin C. of Engineering	2,450	0	0	0	0	0	0	0	0	2,312	138
Harvard U.	1,435,218	28,969	30,302	793,236	19,878	134,733	8,218	169,192	12,681	99,830	138,179
Massachusetts Institute of Technology	1,000,081	119,666	28,790	127,959	10,270	180,988	525	55,636	21,825	404,440	49,982
Merrimack C.	1,560	0	0	1,338	16	36	0	59	0	16	95
MGH Institute of Health Professions	7,426	0	0	6,200	0	0	0	0	0	0	1,226
Mount Holyoke C.	2,533	118	119	618	191	347	377	257	0	0	506
New England C. of Optometry	2,491	0	0	2,491	0	0	0	0	0	0	0
Northeastern U.	288,558	28,375	5,205	46,459	1,443	33,512	12,014	11,463	0	119,529	30,558
Smith C.	5,954	659	128	2,023	455	517	357	283	74	567	891

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Suffolk U.	5,164	0	73	31	0	0	1,275	1,031	0	0	2,754
Tufts U.	247,276	4,526	2,008	138,203	4,607	10,498	6,701	17,786	18,361	34,614	9,972
Wellesley C.	6,320	208	420	1,171	644	879	636	923	14	50	1,375
Western New England U.	1,115	76	0	318	35	0	0	0	0	686	0
Williams C.	6,448 i	137 i	384 i	2,592 i	119 i	768 i	235 i	606 i	0 i	0 i	1,607 i
Woods Hole Oceanographic Institution	287,825	0 i	194,513	0	0	0	0	0	0	93,312	0
Worcester Polytechnic Institute	66,353	10,974	0	3,170	3,402	4,748	0	1,824	0	37,920	4,315
Michigan	3,368,889	53,817	50,850	1,826,174	39,721	324,971	45,085	273,217	33,519	514,887	206,648
Public	3,267,371	53,736	50,683	1,738,664	39,447	322,088	44,943	272,648	33,519	512,386	199,257
Central Michigan U.	25,363	50	933	18,284	46	2,004	201	173	1,932	377	1,363
Eastern Michigan U.	8,363	47	157	3,091	272	446	230	1,039	10	534	2,537
Ferris State U.	1,915	0	0	1,411	252	179	0	0	9	0	64
Grand Valley State U.	6,231	108	2,990	1,401	75	339	74	592	0	239	413
Lake Superior State U.	2,545	0	0	2,477	0	25	0	0	0	43	0
Michigan State U.	844,076	18,855	7,557	377,253	13,271	207,802	14,085	46,373	16,262	86,949	55,669
Michigan Technological U.	103,819	8,624	16,557	11,201	2,076	4,747	826	1,343	974	54,177	3,294
Northern Michigan U.	1,871	30	100	1,080	35	15	149	70	0	0	392
Oakland U.	37,263	4,406	0	11,634	63	10,708	456	68	0	9,138	790
Saginaw Valley State U.	3,143 i	289 i	0 i	2,025 i	0 i	0 i	1 i	222 i	0 i	0 i	606 i
U. Michigan, Ann Arbor	1,925,875	17,076	19,164	1,116,866	21,033	70,259	23,483	217,488	5,664	324,306	110,536
U. Michigan, Dearborn	10,839	8	0	270	416	515	319	193	112	8,414	592
Wayne State U.	250,911	3,578	182	182,874	717	23,226	3,539	1,775	8,448	13,718	12,854
Western Michigan U. and Homer Stryker M.D. School of Medicine	45,157	665	3,043	8,797	1,191	1,823	1,580	3,312	108	14,491	10,147
Private	101,518	81	167	87,510	274	2,883	142	569	0	2,501	7,391
Albion C.	276	0	73	0	0	203	0	0	0	0	0
Andrews U.	1,255	1	21	65	28	380	0	144	0	48	568
Calvin U.	2,555	25 i	30 i	523 i	63 i	536 i	2 i	35 i	0 i	134 i	1,207 i
Hope C.	6,910	49	43	2,289	56	1,652	110	390	0	493	1,828
Lawrence Technological U.	4,632	0	0	0	127	57	0	0	0	816	3,632
U. Detroit Mercy	5,142	6	0	3,885	0	55	30	0	0	1,010	156
Van Andel Research Institute	80,748	0	0	80,748	0	0	0	0	0	0	0
Minnesota	1,365,645	25,174	19,985	972,971	9,158	50,775	35,310	41,408	3,864	149,914	57,086
Public	1,351,673	24,644	17,732	970,029	8,682	48,287	34,511	40,235	3,864	148,768	54,921

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Minnesota State U., Mankato	3,055	143	168	702	58	46	304	124	0	1,166	344
St. Cloud State U.	2,901	25	8	387	0	12	4	401	0	54	2,010
U. Minnesota, Duluth	25,534	257	621	20,530	248	619	473	326	0	1,878	582
U. Minnesota, Twin Cities	1,320,183	24,219	16,935	948,410	8,376	47,610	33,730	39,384	3,864	145,670	51,985
Private	13,972	530	2,253	2,942	476	2,488	799	1,173	0	1,146	2,165
C. of Saint Benedict	1,400 i	26 i	0 i	592 i	18 i	142 i	47 i	150 i	0 i	0 i	425 i
Carleton C.	4,185	299 i	1,775 i	265 i	260 i	390 i	309 i	491 i	0 i	1 i	395 i
Gustavus Adolphus C.	969	0	124	64	13	598	8	14	0	0	148
Macalester C.	1,935	48	238	352	96	682	8	251	0	0	260
Saint John's U.	1,479 i	26 i	0 i	618 i	17 i	142 i	49 i	164 i	0 i	0 i	463 i
St. Olaf C.	1,724	129	111	908	71	196	42	90	0	0	177
U. of St. Thomas (MN)	2,280	2	5	143	1	338	336	13	0	1,145	297
Mississippi	608,155	13,788	47,406	281,536	3,254	48,268	4,650	39,541	4,627	105,384	59,701
Public	605,492	13,682	47,404	280,168	3,149	47,658	4,523	39,471	4,625	105,382	59,430
Alcorn State U.	19,141	0	0	11,432	0	0	0	6,360	0	1,349	0
Jackson State U.	19,457	383	0	6,183	128	7,333	167	559	618	3,214	872
Mississippi State U.	319,684	11,570	16,521	145,647	1,979	13,806	2,421	25,913	3,289	78,080	20,458
U. Mississippi	172,176	1,418	2,219	106,290	1,042	13,565	1,918	4,488	718	11,818	28,700
U. Southern Mississippi	75,034	311	28,664	10,616	0	12,954	17	2,151	0	10,921	9,400
Private	2,663	106	2	1,368	105	610	127	70	2	2	271
Tougaloo C.	2,663 i	106 i	2 i	1,368 i	105 i	610 i	127 i	70 i	2 i	2 i	271 i
Missouri	1,873,279	18,586	17,661	1,456,065	3,479	99,384	17,091	12,445	5,805	142,224	100,539
Public	614,154	11,161	3,368	352,284	1,948	64,337	8,368	7,101	5,627	105,346	54,614
Lincoln U., Jefferson City	8,196	0 i	996 i	6,626 i	0 i	0 i	0 i	237 i	336 i	0 i	1 i
Missouri State U.	14,654	0	228	1,438	0	164	71	120	0	12,633	0
Missouri U. of Science and Technology	61,496	2,948	0	1,359	230	3,747	310	14	886	51,351	651
U. Missouri, Columbia	462,435	6,644	1,728	309,601	1,583	57,534	6,593	3,972	2,570	24,365	47,845
U. Missouri, Kansas City	54,565	1,344	388	27,493	0	1,556	714	508	1,640	16,959	3,963
U. Missouri, Saint Louis	12,808	225	28	5,767	135	1,336	680	2,250	195	38	2,154
Private	1,259,125	7,425	14,293	1,103,781	1,531	35,047	8,723	5,344	178	36,878	45,925
Saint Louis U.	85,921	1,566	7,307	56,051	222	4,726	281	2,485	0	3,187	10,096
U. of Health Sciences and Pharmacy in St. Louis	4,343	0	0	4,284	0	59	0	0	0	0	0
Washington U., Saint Louis	1,168,861	5,859	6,986	1,043,446	1,309	30,262	8,442	2,859	178	33,691	35,829

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Montana	382,015	5,195	23,358	163,905	3,831	36,562	1,666	24,169	14,374	73,175	35,780
Public	382,015	5,195	23,358	163,905	3,831	36,562	1,666	24,169	14,374	73,175	35,780
Montana State U., Bozeman	229,682	3,175	6,124	81,492	2,828	27,448	956	1,903	14,374	67,024	24,358
Montana Technological U.	18,375	49	11,289	803	0	83	0	0	0	6,151	0
U. Montana, Missoula	133,958	1,971	5,945	81,610	1,003	9,031	710	22,266	0	0	11,422
Nebraska	680,337	17,568	3,541	444,161	6,651	41,026	17,863	16,185	10,136	78,584	44,622
Public	651,894	16,372	3,541	422,665	6,342	38,929	17,515	14,976	10,136	78,584	42,834
U. Nebraska, Kearney	3,681	111	0	1,862	3	832	61	64	0	0	748
U. Nebraska, Lincoln and Medical Center ^c	617,372	10,348	3,364	413,555	5,687	37,541	17,233	11,621	928	76,802	40,293
U. Nebraska, Omaha	30,841	5,913	177	7,248	652	556	221	3,291	9,208	1,782	1,793
Private	28,443	1,196	0	21,496	309	2,097	348	1,209	0	0	1,788
Creighton U.	28,443	1,196	0	21,496	309	2,097	348	1,209	0	0	1,788
Nevada	325,781	6,737	52,663	123,385	3,966	23,103	7,555	13,890	4,347	55,064	35,071
Public	319,716	6,737	52,663	117,320	3,966	23,103	7,555	13,890	4,347	55,064	35,071
Desert Research Institute	30,716	0	27,742	2,974	0	0	0	0	0	0	0
Nevada State C.	1,744	0	59	995	0	0	286	0	0	0	404
U. Nevada, Las Vegas	98,751	2,120	5,803	36,005	2,558	11,407	2,027	7,566	910	13,866	16,489
U. Nevada, Reno	188,505	4,617	19,059	77,346	1,408	11,696	5,242	6,324	3,437	41,198	18,178
Private	6,065	0	0	6,065	0	0	0	0	0	0	0
Roseman U. of Health Sciences	6,065	0	0	6,065	0	0	0	0	0	0	0
New Hampshire	590,539	19,814	108,391	233,536	12,066	30,319	16,518	39,861	3,097	70,751	56,186
Public	223,683	1,505	99,189	54,290	1,738	5,689	1,110	17,256	0	29,519	13,387
U. New Hampshire	223,683	1,505	99,189	54,290	1,738	5,689	1,110	17,256	0	29,519	13,387
Private	366,856	18,309	9,202	179,246	10,328	24,630	15,408	22,605	3,097	41,232	42,799
Dartmouth C. and Dartmouth Hitchcock Medical Center	366,856	18,309	9,202	179,246	10,328	24,630	15,408	22,605	3,097	41,232	42,799
New Jersey	1,717,387	64,899	79,314	807,039	37,457	173,375	32,244	111,340	3,055	310,092	98,572
Public	1,133,752	29,713	43,808	675,629	20,108	58,166	25,939	27,176	3,055	172,762	77,396
C. New Jersey	2,641	214	0	1,107	66	529	25	209	150	278	63
Kean U.	10,062	1,801	129	1,463	187	502	281	1,843	70	1	3,785
Montclair State U.	38,209	1,332	2,352	5,509	1,684	2,520	6,448	4,747	0	402	13,215
New Jersey Institute of Technology	161,078	12,638	0	24,332	5,475	18,434	0	625	277	90,849	8,448
Rowan U.	47,810	606	1,549	11,750	795	3,480	1,934	1,280	139	19,322	6,955
Rutgers, State U. New Jersey, Camden	9,527	3,577	0	363	2	229	44	3,541	0	0	1,771

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rutgers, State U. New Jersey, New Brunswick	831,719	8,406	35,546	619,096	11,898	28,283	15,490	10,539	2,248	61,910	38,303
Rutgers, State U. New Jersey, Newark	29,787	1,107	3,154	11,575	0	4,188	1,638	3,265	171	0	4,689
Stockton U.	2,386	0	964	313	0	0	0	1,109	0	0	0
William Paterson U.	533	32	114	121	1	1	79	18	0	0	167
Private	583,635	35,186	35,506	131,410	17,349	115,209	6,305	84,164	0	137,330	21,176
Monmouth U.	2,517	38	1,838	337	0	32	0	168	0	0	104
Princeton U.	513,365	29,801	33,668	128,054	16,810	109,961	6,305	83,793	0	87,035	17,938
Seton Hall U.	7,068	350	0	2,862	75	2,375	0	10	0	0	1,396
Stevens Institute of Technology	60,685	4,997	0	157	464	2,841	0	193	0	50,295	1,738
New Mexico	564,566	25,909	28,737	262,235	1,581	31,027	8,367	13,814	12,102	168,488	12,306
Public	564,566	25,909	28,737	262,235	1,581	31,027	8,367	13,814	12,102	168,488	12,306
New Mexico Highlands U.	3,468	1,095	151	1,803	242	12	151	0	0	0	14
New Mexico Institute of Mining and Technology	118,735	14,923	16,521	558	157	7,124	464	0	0	76,286	2,702
New Mexico State U.	126,337	5,075	4,514	55,765	170	12,826	312	701	4,087	40,884	2,003
U. New Mexico	316,026	4,816	7,551	204,109	1,012	11,065	7,440	13,113	8,015	51,318	7,587
New York	9,058,400	191,534	182,133	6,053,641	66,282	550,305	122,442	219,382	41,515	1,083,373	547,793
Public	1,801,836	59,148	74,983	668,755	22,964	137,434	53,244	71,622	25,846	533,902	153,938
CUNY, Advanced Science Research Center	17,309	0	570	5,548	0	9,285	0	0	0	1,871	35
CUNY, Baruch C.	4,084	0	269	807	682	347	175	169	9	0	1,626
CUNY, Brooklyn C.	8,535	203	1,023	1,067	242	2,680	1,693	162	0	0	1,465
CUNY, C. Staten Island	4,730	123	54	1,300	116	1,303	709	17	0	288	820
CUNY, City C.	63,159	358	1,627	8,800	358	10,061	1,297	76	4	21,627	18,951
CUNY, Graduate Center	54,089	1,079	881	3,725	1,564	2,993	5,510	14,400	354	206	23,377
CUNY, Graduate School of Public Health and Health Policy	26,651	0	0	25,876	0	0	775	0	0	0	0
CUNY, Hunter C.	37,172	1,805	1,258	10,272	262	5,712	8,218	1,537	0	0	8,108
CUNY, John Jay C. of Criminal Justice	22,967	6	0	419	342	723	2,412	2,511	83	0	16,471
CUNY, Lehman C.	5,918	402	43	757	181	3,003	178	581	3	0	770
CUNY, New York City C. of Technology	2,819	241	0	162	220	585	0	24	0	806	781
CUNY, Queens C.	25,492	442	680	16,586	380	2,163	2,523	1,325	617	0	776
CUNY, system office	4,296	18	0	179	0	0	3	0	1,705	413	1,978
CUNY, York C.	1,711	0	518	430	356	188	91	0	0	0	128
SUNY, Binghamton U.	141,685	7,948	1,540	15,773	3,122	16,702	10,713	20,938	0	45,755	19,194
SUNY, Buffalo State U.	2,636	53	1,276	945	192	47	18	72	0	0	33

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, C. Brockport	1,877	12	0	1,444	0	310	0	81	0	0	30
SUNY, C. of Environmental Science and Forestry	32,682	314	1,743	22,461	3	2,106	2,535	61	0	2,095	1,364
SUNY, C. of Optometry	4,423	0	0	4,423	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	1,722	0	1,078	292	0	331	0	21	0	0	0
SUNY, Cobleskill	2,566	0	0	140	0	0	0	0	0	2,301	125
SUNY, Downstate Health Sciences U.	35,600	0	0	35,600	0	0	0	0	0	0	0
SUNY, Geneseo	1,958	0	55	286	7	1,176	149	39	0	0	246
SUNY, Oswego	1,595	26	332	188	5	315	142	76	251	150	110
SUNY, Polytechnic Institute	284,677	18	0	2,369	0	0	0	0	0	282,110	180
SUNY, Stony Brook U.	324,531	15,550	39,762	136,089	7,442	49,245	5,969	2,869	20,112	40,873	6,620
SUNY, U. Albany	141,671	6,022	15,430	55,543	2,531	12,431	4,133	16,605	0	4,562	24,414
SUNY, U. Buffalo	471,569	20,464	6,700	263,888	2,886	15,320	5,809	4,321	2,708	123,383	26,090
SUNY, Upstate Medical U.	53,219	0	0	53,219	0	0	0	0	0	0	0
U.S. Military Academy	20,493	4,064	144	167	2,073	408	192	5,737	0	7,462	246
Private	7,256,564	132,386	107,150	5,384,886	43,318	412,871	69,198	147,760	15,669	549,471	393,855
Albany C. of Pharmacy and Health Sciences	2,594	0	0	2,594	0	0	0	0	0	0	0
Albany Medical C.	23,259	0	0	23,259	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	336,238	0	0	336,238	0	0	0	0	0	0	0
Alfred U.	4,154	0	1	0	0	8	69	0	0	4,076	0
Barnard C.	6,320	327	236	1,571	0	1,588	1,277	756	0	0	565
Canisius U.	905	0	0	0	0	108	0	0	797	0	0
Clarkson U.	25,399	780	170	1,725	830	4,148	87	514	0	14,568	2,577
Cold Spring Harbor Laboratory	117,483	0	0	117,483	0	0	0	0	0	0	0
Colgate U.	4,930	177	960	692	113	1,456	127	466	0	0	939
Columbia U. in the City of New York	1,341,952	30,853	88,243	980,046	4,294	52,418	4,443	18,686	0	100,161	62,808
Cornell U.	1,451,971	32,821	5,762	1,020,982	4,173	136,751	12,439	30,044	145	149,807	59,047
Fordham U.	23,832	393	60	1,566	396	1,226	3,003	1,619	0	0	15,569
Hamilton C.	3,285	110	270	190	16	606	62	514	0	0	1,517
Hobart and William Smith Colleges	2,373	16	300	1,653	15	211	2	40	19	0	117
Hofstra U.	8,162	68	239	2,155	368	401	381	370	0	642	3,538
Icahn School of Medicine at Mount Sinai	972,476	0	0	972,476	0	0	0	0	0	0	0
Ithaca C.	861	72	154	76	87	277	6	44	0	0	145
Long Island U.	16,612	234	59	9,621	226	1,015	1,131	681	0	0	3,645

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Manhattan C.	1,250	0	0	114	260	79	0	221	0	447	129
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	5,324	0	0	5,324	0	0	0	0	0	0	0
New School	22,680	41	239	1,440	0	0	1,040	7,393	2,576	3,565	6,386
New York Institute of Technology	5,790	292	0	4,431	0	211	0	0	0	844	12
New York Medical C.	17,113	0	0	17,113	0	0	0	0	0	0	0
New York U.	1,457,424	16,701	732	1,065,030	19,747	30,409	26,613	41,857	0	132,311	124,024
Pace U.	4,056	1,067	0	667	0	106	152	19	0	684	1,361
Pratt Institute	1,558	0	0	0	0	0	0	0	0	0	1,558
Rensselaer Polytechnic Institute	121,706	13,075	1,961	8,077	3,783	12,723	3,870	1,412	0	66,158	10,647
Rochester Institute of Technology	72,405	12,888	0	2,005	2,542	15,762	538	3,259	0	28,126	7,285
Rockefeller U.	385,168	8,060	151	369,447	1,396	6,114	0	0	0	0	0
Skidmore C.	2,384	0	394	825	19	456	324	214	0	0	152
St. John's U., New York	3,955	222	0	2,577	0	380	539	0	0	0	237
Syracuse U.	183,850	7,300	3,549	18,677	2,855	20,189	3,515	15,676	1,381	24,796	85,912
Teachers C., Columbia U.	34,183	2,791	0	6,595	0	0	2,232	22,332	0	0	233
Touro U., New York	100,547	0	0	100,542	0	0	0	0	0	0	5
U. Rochester	481,227	3,544	3,103	304,786	396	124,977	6,934	1,167	10,533	22,767	3,020
Union C., Schenectady	1,881	53	344	108	75	383	41	127	14	519	217
Vassar C.	2,596	48	223	798	185	450	373	349	0	0	170
Yeshiva U.	8,661	453	0	4,003	1,542	419	0	0	204	0	2,040
North Carolina	4,344,862	100,553	98,233	3,102,942	37,079	140,898	77,968	165,865	19,967	409,522	191,835
Public	2,520,822	86,889	88,129	1,544,054	27,582	108,719	66,357	118,207	19,410	298,108	163,367
Appalachian State U.	8,479	536	986	4,134	72	971	130	296	0	266	1,088
East Carolina U.	67,082	1,095	6,772	43,941	90	2,274	1,788	1,476	0	3,013	6,633
Elizabeth City State U.	1,641	386	0	495	0	0	3	116	0	0	641
Fayetteville State U.	3,569	524	0	872	0	183	0	173	47	141	1,629
North Carolina A&T State U.	62,307	1,884	0	22,995	1,149	3,306	95	111	2,056	20,925	9,786
North Carolina Central U.	18,477	157	261	7,115	0	5,524	0	357	293	2,317	2,453
North Carolina State U.	633,251	26,585	34,922	284,651	18,035	28,745	1,887	8,771	16,191	196,594	16,870
U. North Carolina, Asheville	6,761	278	212	2,138	0	894	0	253	282	2	2,702
U. North Carolina, Chapel Hill	1,549,617	41,385	34,095	1,141,727	4,894	51,933	56,582	95,692	139	49,721	73,449
U. North Carolina, Charlotte	92,027	11,068	2,523	11,443	2,704	7,278	1,960	7,825	0	23,417	23,809

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Carolina, Greensboro	44,521	1,076	31	13,196	470	5,687	3,445	1,370	18	0	19,228
U. North Carolina, Wilmington	21,879	1,169	7,843	7,597	53	1,317	272	1,321	384	1,317	606
Western Carolina U.	2,543	0	484	822	72	56	0	182	0	395	532
Winston-Salem State U.	8,668	746	0	2,928	43	551	195	264	0	0	3,941
Private	1,824,040	13,664	10,104	1,558,888	9,497	32,179	11,611	47,658	557	111,414	28,468
Davidson C.	2,926	114	0	709	298	605	506	400	0	0	294
Duke U.	1,507,996	12,836	9,796	1,266,314	8,374	29,127	10,189	43,163	501	109,885	17,811
Elon U.	2,544	42	0	457	109	116	212	297	56	30	1,225
Johnson C. Smith U.	1,602	43	308	98	0	0	0	0	0	0	1,153
Wake Forest U.	308,972	629	0	291,310	716	2,331	704	3,798	0	1,499	7,985
North Dakota	373,912	7,619	7,916	159,606	1,414	18,495	7,743	10,325	5,273	130,619	24,902
Public	372,525	7,558	7,916	158,940	1,414	18,495	7,743	10,325	5,273	130,175	24,686
North Dakota State U.	190,330	3,422	472	122,001	970	11,009	2,750	8,600	5,117	25,034	10,955
U. North Dakota	182,195	4,136	7,444	36,939	444	7,486	4,993	1,725	156	105,141	13,731
Private	1,387	61	0	666	0	0	0	0	0	444	216
United Tribes Technical C.	1,387	61	0	666	0	0	0	0	0	444	216
Ohio	3,392,194	85,286	29,643	2,177,762	11,999	115,334	34,934	69,685	44,039	658,281	165,231
Public	2,603,489	54,684	26,570	1,712,017	10,951	108,028	32,835	57,631	43,828	400,332	156,613
Air Force Institute of Technology	56,848	9,028	1,271	0	375	8,942	0	0	0	37,232	0
Bowling Green State U.	20,726	456	2,062	4,114	163	1,994	885	4,328	110	189	6,425
Central State U.	11,123	0	163	10,270	59	352	0	0	124	155	0
Cleveland State U.	87,941	0	0	52,377	901	1,610	769	7,143	0	15,061	10,080
Kent State U.	58,984	2,228	1,472	11,557	1,591	10,220	5,320	6,091	1,908	1,904	16,693
Miami U.	28,430	750	768	7,968	636	4,186	2,246	1,166	0	4,562	6,148
Northeast Ohio Medical U.	13,116	0	137	12,577	0	0	0	290	91	0	21
Ohio State U.	1,449,188	31,323	9,777	977,520	5,135	39,570	6,403	24,943	40,363	242,745	71,409
Ohio U.	59,877	290	2,475	20,740	18	6,865	3,242	1,855	0	16,193	8,199
U. Akron	21,525	132	261	1,185	78	9,555	435	131	150	8,851	747
U. Cincinnati	698,642	4,958	1,489	567,982	1,732	12,181	11,756	11,576	987	54,548	31,433
U. Toledo	67,656	0	6,117	32,455	55	11,716	359	63	0	11,520	5,371
Wright State U.	26,189	5,443	474	13,117	75	715	1,371	0	95	4,819	80
Youngstown State U.	3,244	76	104	155	133	122	49	45	0	2,553	7
Private	788,705	30,602	3,073	465,745	1,048	7,306	2,099	12,054	211	257,949	8,618

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
C. Wooster	2,209	789	176	224	123	524	12	168	0	0	193
Case Western Reserve U.	553,740	5,998	812	462,781	709	5,407	1,840	11,687	183	59,900	4,423
Heidelberg U.	1,254	0	1,254	0	0	0	0	0	0	0	0
Kenyon C.	1,371	0	0	694	69	523	5	34	0	0	46
Oberlin C.	1,408	122	88	351	49	467	62	44	28	0	197
U. Dayton	228,723	23,693	743	1,695	98	385	180	121	0	198,049	3,759
Oklahoma	725,008	18,495	87,736	292,565	7,450	33,560	17,444	29,433	11,514	116,305	110,506
Public	700,163	13,598	87,599	291,066	7,446	32,599	16,585	28,880	11,514	105,314	105,562
Langston U.	10,505	0	0	9,676	27	110	518	0	0	0	174
Oklahoma State U., Center for Health Sciences	12,500	107	0	9,376	0	0	2,998	0	0	0	19
Oklahoma State U., Stillwater	226,498	3,598	4,254	92,203	4,680	9,993	7,181	10,445	11,514	44,510	38,120
U. Central Oklahoma	7,870	265	0	3,778	118	637	148	379	0	1,032	1,513
U. Oklahoma, Norman and Health Science Center	436,964	9,628	83,345	174,395	2,621	21,859	5,725	17,870	0	58,746	62,775
U. Oklahoma, Tulsa	5,826	0	0	1,638	0	0	15	186	0	1,026	2,961
Private	24,845	4,897	137	1,499	4	961	859	553	0	10,991	4,944
U. Tulsa	24,845	4,897	137	1,499	4	961	859	553	0	10,991	4,944
Oregon	1,095,169	14,551	68,558	771,290	5,001	29,128	25,868	20,147	5,658	100,548	54,420
Public	1,072,136	14,351	68,190	759,672	4,817	27,660	25,455	19,334	5,588	100,548	46,521
Oregon Health and Science U.	517,742	0	0	502,768	0	14	0	0	0	14,960	0
Oregon Institute of Technology	5,585	227	444	3,543	126	0	141	0	0	1,104	0
Oregon State U.	337,985	5,346	57,207	175,883	1,358	7,604	1,398	7,579	3,718	71,532	6,360
Portland State U.	46,324	1,971	2,147	14,371	1,505	1,932	1,554	6,170	53	7,108	9,513
U. Oregon	164,500	6,807	8,392	63,107	1,828	18,110	22,362	5,585	1,817	5,844	30,648
Private	23,033	200	368	11,618	184	1,468	413	813	70	0	7,899
Lewis and Clark C.	2,686	24	171	647	21	214	0	101	0	0	1,508
National U. of Natural Medicine	1,336	0	0	1,336	0	0	0	0	0	0	0
Pacific U.	10,719	0	0	6,401	0	49	73	125	0	0	4,071
Reed C.	6,750	172	0	2,991	155	978	271	587	0	0	1,596
Willamette U.	1,542	4	197	243	8	227	69	0	70	0	724
Pennsylvania	5,954,796	380,671	58,065	3,702,061	58,984	281,258	106,310	146,726	31,366	906,942	282,413
Public	2,932,663	127,310	49,886	1,790,351	31,022	162,414	70,633	59,461	14,620	547,169	79,797
East Stroudsburg U. Pennsylvania	2,928	9	0	2,082	0	0	0	9	0	0	828
Indiana U. Pennsylvania	6,052	246	178	1,909	1	204	555	380	138	0	2,441

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Lincoln U.	628	96	0	232	0	14	0	0	0	0	286
Pennsylvania State U., Altoona	1,215	0	0	609	39	77	0	3	0	425	62
Pennsylvania State U., Behrend	7,614	1	1,466	2,704	46	773	183	2	0	1,892	547
Pennsylvania State U., Harrisburg	5,159	13	39	1,774	15	91	483	336	0	272	2,136
Pennsylvania State U., University Park and Hershey Medical Center	1,206,793	108,873	33,406	346,482	24,625	111,514	41,284	42,771	0	453,476	44,362
Temple U.	292,029	5,498	1,323	227,767	1,004	15,792	11,114	3,521	844	8,815	16,351
U. Pittsburgh, Pittsburgh	1,398,078	12,535	13,409	1,205,739	5,160	33,092	16,409	5,653	13,638	82,238	10,205
U.S. Army War C.	6,035	0	0	0	0	0	0	6,035	0	0	0
West Chester U. Pennsylvania	6,132	39	65	1,053	132	857	605	751	0	51	2,579
Private	3,022,133	253,361	8,179	1,911,710	27,962	118,844	35,677	87,265	16,746	359,773	202,616
Arcadia U.	1,321	0	0	43	0	0	0	0	0	0	1,278
Bryn Mawr C.	9,039	368	337	1,141	541	1,094	479	1,716	0	0	3,363
Bucknell U.	5,887	229	126	1,368	164	605	86	355	160	2,064	730
Carnegie Mellon U.	484,757	220,946	1,549	16,878	16,604	27,237	10,187	12,649	5,575	155,436	17,696
Drexel U.	169,583	6,621	0	94,232	617	3,102	4,336	1,739	1,662	44,002	13,272
Duquesne U.	14,989	0	236	10,506	83	726	83	253	0	187	2,915
Franklin and Marshall C.	4,111	42	514	672	68	920	237	424	0	0	1,234
Gettysburg C.	1,099	4	0	274	0	228	24	393	0	0	176
Haverford C.	4,088	114	92	1,556	97	1,183	326	200	0	0	520
Lafayette C.	1,991	117	80	197	118	445	76	164	0	581	213
Lehigh U.	56,301	2,725	1,439	8,884	489	5,588	739	602	39	32,406	3,390
Philadelphia C. of Osteopathic Medicine	7,459	0	0	7,459	0	0	0	0	0	0	0
Robert Morris U.	1,419	210	0	48	13	7	23	20	0	612	486
Saint Joseph's U.	8,675	361	0	5,186	9	906	331	222	0	0	1,660
Swarthmore C.	5,620	81	0	1,516	273	1,019	198	574	0	338	1,621
Thomas Jefferson U.	258,345	0	0	258,291	0	0	0	0	0	33	21
U. Pennsylvania	1,953,617	21,066	2,293	1,497,834	8,603	72,101	17,413	66,203	9,310	112,740	146,054
U. Scranton	1,169	35	561	251	0	100	8	8	0	4	202
Ursinus C.	1,150	12	0	665	120	344	3	6	0	0	0
Villanova U.	31,513	430	952	4,709	163	3,239	1,128	1,737	0	11,370	7,785
Rhode Island	513,818	21,825	75,748	217,000	17,012	24,893	14,707	46,585	16,459	42,479	37,110
Public	150,671	2,582	61,366	37,232	57	6,352	3,836	5,247	4,195	14,637	15,167
Naval War C.	5,819	0	0	0	0	0	0	800	0	0	5,019

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rhode Island C.	839	98	0	358	0	326	57	0	0	0	0
U. Rhode Island	144,013	2,484	61,366	36,874	57	6,026	3,779	4,447	4,195	14,637	10,148
Private	363,147	19,243	14,382	179,768	16,955	18,541	10,871	41,338	12,264	27,842	21,943
Brown U.	353,591	19,235	13,244	176,938	16,873	18,064	10,682	41,238	12,212	27,640	17,465
Bryant U.	558	3	7	353	82	0	0	12	0	0	101
Providence C.	5,533	0	248	1,320	0	253	105	88	0	0	3,519
Roger Williams U.	3,465	5	883	1,157	0	224	84	0	52	202	858
South Carolina	918,964	19,157	14,588	533,272	6,920	21,247	17,875	30,493	11	154,368	121,033
Public	912,972	18,650	14,363	531,782	6,733	19,508	17,702	30,387	11	152,877	120,959
C. Charleston	7,231	421	2,157	1,677	109	768	63	429	0	583	1,024
Citadel Military C. South Carolina	3,757	2,419	35	65	18	122	25	11	0	491	571
Clemson U.	286,503	9,428	0	81,964	2,131	12,096	3,826	7,532	0	103,188	66,338
Coastal Carolina U.	4,729	208	2,214	572	0	280	65	261	3	275	851
Medical U. South Carolina	333,826	0	0	333,826	0	0	0	0	0	0	0
South Carolina State U.	7,814	1,025	278	3,360	0	541	0	619	0	924	1,067
U. South Carolina, Aiken	2,250	3	124	784	13	165	24	1	0	126	1,010
U. South Carolina, Beaufort	1,466	558	289	292	15	0	0	3	0	135	174
U. South Carolina, Columbia	262,207	4,491	9,266	108,934	4,385	5,158	13,699	21,393	8	47,155	47,718
Winthrop U.	3,189	97	0	308	62	378	0	138	0	0	2,206
Private	5,992	507	225	1,490	187	1,739	173	106	0	1,491	74
Benedict C.	2,307	189	0	354	187	149	0	0	0	1,428	0
Clafin U.	1,418	306	53	562	0	340	0	94	0	63	0
Furman U.	2,267	12	172	574	0	1,250	173	12	0	0	74
South Dakota	129,045	6,301	1,193	73,873	1,022	11,858	2,037	2,509	224	25,524	4,504
Public	129,045	6,301	1,193	73,873	1,022	11,858	2,037	2,509	224	25,524	4,504
Black Hills State U.	2,260	421	0	1,400	0	120	2	0	0	0	317
Dakota State U.	5,253	5,172	0	81	0	0	0	0	0	0	0
South Dakota School of Mines and Technology	20,337	325	0	0	95	4,365	0	0	0	15,552	0
South Dakota State U.	71,340	49	1,193	55,010	691	2,892	324	1,426	0	8,819	936
U. South Dakota	29,855	334	0	17,382	236	4,481	1,711	1,083	224	1,153	3,251
Tennessee	1,972,549	49,378	13,209	1,278,653	7,325	65,945	29,568	51,200	35,454	231,206	210,611
Public	688,937	23,329	9,572	295,729	4,898	32,966	12,119	22,843	35,454	148,740	103,287
Austin Peay State U.	3,950	0	716	2,220	0	96	21	178	0	9	710

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas Woman's U.	6,922	43	0	4,253	166	286	1,450	412	10	0	302
U. Houston	231,942	9,325	12,509	46,297	7,605	27,682	19,682	4,721	1,101	67,684	35,336
U. Houston-Clear Lake	2,127	57	0	1,369	0	206	103	56	5	184	147
U. Houston-Downtown	1,967	367	30	245	35	110	41	0	0	79	1,060
U. North Texas, Denton	106,665	12,171	538	16,228	1,879	9,854	3,758	4,801	0	27,249	30,187
U. North Texas, Health Science Center	94,652	0	0	93,494	0	0	0	1,158	0	0	0
U. Texas Health Science Center, Houston	374,105	0	0	374,105	0	0	0	0	0	0	0
U. Texas Health Science Center, San Antonio	281,078	0	0	281,078	0	0	0	0	0	0	0
U. Texas Health Science Center, Tyler	32,077	0	0	32,077	0	0	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	1,255,190	0	0	1,166,465	23,423	23,775	18,290	23,237	0	0	0
U. Texas Medical Branch	233,192	0	0	225,795	0	0	0	0	0	7,397	0
U. Texas of the Permian Basin	2,769	0	161	593	7	51	62	271	0	416	1,208
U. Texas Rio Grande Valley	82,444	2,540	2,766	37,668	3,845	5,214	1,268	4,897	63	11,028	13,155
U. Texas Southwestern Medical Center	800,391	0	0	800,391	0	0	0	0	0	0	0
U. Texas, Arlington	147,265	9,165	1,228	23,340	3,317	20,371	2,416	150	0	64,548	22,730
U. Texas, Austin	1,035,838	116,971	76,120	188,258	18,889	123,113	16,683	32,781	5,907	360,947	96,169
U. Texas, Dallas	146,779	10,213	973	39,684	1,616	17,707	4,915	2,513	28	55,368	13,762
U. Texas, El Paso	145,724	8,443	4,729	35,325	2,552	12,207	6,453	4,319	3,722	45,627	22,347
U. Texas, San Antonio	158,453	22,722	4,765	31,428	1,782	12,226	3,133	12,152	1,929	25,584	42,732
U. Texas, Tyler	3,487	25	119	1,957	87	122	59	57	0	812	249
West Texas A&M U.	10,302	363	322	7,434	1	247	0	0	290	1,075	570
Private	1,285,350	15,309	17,755	890,898	11,757	78,105	15,336	30,464	13,991	150,244	61,491
Abilene Christian U.	8,182	0	0	179	9	7,716	14	8	0	15	241
Baylor C. of Medicine	847,305	0	0	847,305	0	0	0	0	0	0	0
Baylor U.	82,074	2,063	4,243	13,879	1,604	11,399	5,848	3,585	4,335	11,454	23,664
Rice U.	255,115	12,530	6,249	19,778	7,338	43,704	5,420	24,172	627	129,719	5,578
Southern Methodist U.	59,749	518	5,716	3,187	2,199	9,217	1,872	2,227	3,765	8,535	22,513
St. Edward's U.	1,334	20	304	680	35	70	60	140	25	0	0
Texas Christian U.	24,050	84	980	3,632	483	3,625	1,474	10	5,239	95	8,428
Trinity U.	5,296	84	257	934	89	2,025	648	322	0	137	800
U. of the Incarnate Word	2,245	10	6	1,324	0	349	0	0	0	289	267
Utah	1,264,913	12,041	15,033	546,791	10,546	42,748	14,246	25,199	219	449,106	148,984
Public	1,127,165	4,800	13,682	519,631	4,895	32,031	11,383	15,796	152	422,183	102,612

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Utah	723,713	249	11,126	453,037	3,727	24,991	5,663	14,062	0	113,129	97,729
Utah State U.	401,437	4,436	2,460	66,338	1,009	6,477	5,720	1,734	0	308,386	4,877
Utah Valley U.	2,015	115	96	256	159	563	0	0	152	668	6
Private	137,748	7,241	1,351	27,160	5,651	10,717	2,863	9,403	67	26,923	46,372
Brigham Young U., Provo	137,748	7,241	1,351	27,160	5,651	10,717	2,863	9,403	67	26,923	46,372
Vermont	238,418	3,590	5,312	168,888	2,532	4,742	5,305	10,294	2,838	18,394	16,523
Public	233,806	3,361	4,650	167,760	2,319	3,944	4,830	9,950	2,642	18,270	16,080
U. Vermont	233,806	3,361	4,650	167,760	2,319	3,944	4,830	9,950	2,642	18,270	16,080
Private	4,612	229	662	1,128	213	798	475	344	196	124	443
Middlebury C.	2,975	229	585	827	35	598	125	343	0	0	233
Norwich U.	1,637	0	77	301	178	200	350	1	196	124	210
Virginia	2,297,277	101,032	81,433	1,066,810	20,601	88,464	33,975	122,345	1,592	504,183	276,842
Public	2,272,352	99,827	79,418	1,054,899	20,016	83,971	33,473	121,798	1,592	502,647	274,711
Christopher Newport U.	3,507	0	0	628	159	1,394	77	134	0	541	574
Eastern Virginia Medical School	23,991	0	0	23,991	0	0	0	0	0	0	0
George Mason U.	252,239	22,076	17,068	37,589	2,657	7,098	4,323	73,092	100	61,036	27,200
James Madison U.	21,265	1,156	1,073	4,300	301	2,525	985	673	31	576	9,645
Norfolk State U.	6,194	444	0	326	123	1,074	0	323	0	2,218	1,686
Old Dominion U.	71,334	3,127	4,434	13,232	1,043	8,733	1,647	1,887	0	32,001	5,230
Radford U.	1,315	71	14	255	0	0	9	203	235	0	528
U. of Mary Washington	1,115	71	25	213	2	63	33	38	0	0	670
U. Virginia's C. Wise	1,223	223	6	180	76	18	0	40	0	0	680
U. Virginia, Charlottesville	714,457	28,652	7,041	418,932	2,301	27,920	7,392	12,798	848	112,702	95,871
Virginia Commonwealth U.	479,930	8,058	180	320,557	839	5,346	12,123	7,273	0	29,609	95,945
Virginia Military Institute	2,350	1,805	0	88	46	108	0	29	0	147	127
Virginia Polytechnic Institute and State U.	598,113	30,263	6,047	221,029	12,051	22,452	6,359	13,608	0	261,707	24,597
Virginia State U.	13,504	102	45	8,961	36	144	323	16	1	2,110	1,766
William & Mary	81,815	3,779	43,485	4,618	382	7,096	202	11,684	377	0	10,192
Private	24,925	1,205	2,015	11,911	585	4,493	502	547	0	1,536	2,131
Edward Via C. of Osteopathic Medicine	7,597	0	0	7,597	0	0	0	0	0	0	0
Hampton U.	9,769	409	1,880	1,745	490	3,898	0	139	0	837	371
Liberty U.	1,900	369	0	728	0	0	0	0	0	588	215
Marymount U.	2,601	427	0	790	39	32	180	287	0	111	735

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Richmond	3,058	0	135	1,051	56	563	322	121	0	0	810
Washington	2,160,233	40,261	182,865	1,402,491	11,283	102,366	16,763	39,270	6,888	229,925	128,121
Public	2,153,103	40,174	182,569	1,400,338	11,176	101,256	16,508	38,697	6,819	229,643	125,923
Central Washington U.	3,683	384	2,043	464	209	267	0	226	0	56	34
Eastern Washington U.	2,546	0	37	454	1	86	87	1,810	0	71	0
Northwest Indian C.	6,184 i	0 i	64 i	539 i	0 i	0 i	0 i	0 i	0 i	243 i	5,338 i
U. Washington, Bothell	5,738	369	293	1,365	82	884	0	372	307	530	1,536
U. Washington, Seattle	1,734,091	30,158	162,612	1,175,596	9,783	69,424	11,239	23,577	1,135	180,277	70,290
U. Washington, Tacoma	6,243	117	3,991	541	182	0	0	100	208	328	776
Washington State U.	378,744	8,664	10,521	220,515	383	27,495	4,278	11,439	3,404	47,254	44,791
Western Washington U.	15,874	482	3,008	864	536	3,100	904	1,173	1,765	884	3,158
Private	7,130	87	296	2,153	107	1,110	255	573	69	282	2,198
Seattle U.	3,949	67	10	676	104	327	162	415	0	282	1,906
U. Puget Sound	1,613	3	65	1,166	3	127	0	64	69	0	116
Whitman C.	1,568	17	221	311	0	656	93	94	0	0	176
West Virginia	286,551	2,439	5,492	181,677	515	17,797	1,929	4,273	1,552	55,279	15,598
Public	286,551	2,439	5,492	181,677	515	17,797	1,929	4,273	1,552	55,279	15,598
Marshall U.	33,693	284	456	21,925	44	1,501	0	81	0	5,227	4,175
West Virginia School of Osteopathic Medicine	1,459 i	0 i	0 i	1,457 i	0 i	0 i	0 i	0 i	0 i	0 i	2 i
West Virginia State U.	5,226	0	0	5,203	23	0	0	0	0	0	0
West Virginia U.	246,173	2,155	5,036	153,092	448	16,296	1,929	4,192	1,552	50,052	11,421
Wisconsin	2,215,597	41,085	92,013	1,437,513	10,102	127,509	20,384	84,288	61,197	205,127	136,379
Public	1,816,328	39,172	91,911	1,079,845	9,131	125,394	18,967	83,472	61,197	182,158	125,081
U. Wisconsin-Eau Claire	2,191	0	302	139	22	1,160	327	175	0	0	66
U. Wisconsin-Green Bay	2,801	82 i	121 i	1,590 i	21 i	166 i	45 i	97 i	0 i	484 i	195 i
U. Wisconsin-La Crosse	2,921	60	39	729	21	322	21	1,359	10	0	360
U. Wisconsin-Madison	1,731,949	38,571	77,933	1,058,529	8,838	113,636	13,198	75,982	57,926	171,445	115,891
U. Wisconsin-Milwaukee	60,712	399	9,007	10,761	198	9,286	5,341	5,609	3,244	9,725	7,142
U. Wisconsin-Oshkosh	2,087	10	28	810	0	196	10	129	0	157	747
U. Wisconsin-Platteville	1,481 i	48 i	0 i	665 i	25 i	107 i	25 i	121 i	17 i	223 i	250 i
U. Wisconsin-River Falls	2,772	0	0	2,125	0	373	0	0	0	42	232
U. Wisconsin-Stevens Point	4,589	2	529	3,851	0	125	0	0	0	82	0
U. Wisconsin-Superior	4,825	0	3,952	646	6	23	0	0	0	0	198

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2023

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	399,269	1,913	102	357,668	971	2,115	1,417	816	0	22,969	11,298
Marquette U.	47,819	1,831	0	17,556	921	2,115	1,335	717	0	12,351	10,993
Medical C. Wisconsin	346,691	0	0	338,863	0	0	0	0	0	7,828	0
Milwaukee School of Engineering	3,317	82	0	431	0	0	0	0	0	2,790	14
Northland C.	1,442 i	0 i	102 i	818 i	50 i	0 i	82 i	99 i	0 i	0 i	291 i
Wyoming	150,124	1,958	21,692	57,427	1,816	3,585	907	5,624	23,805	23,084	10,226
Public	150,124	1,958	21,692	57,427	1,816	3,585	907	5,624	23,805	23,084	10,226
U. Wyoming	150,124	1,958	21,692	57,427	1,816	3,585	907	5,624	23,805	23,084	10,226
Guam	22,388	0	7,715	13,548	160	266	0	126	0	0	573
Public	22,388	0	7,715	13,548	160	266	0	126	0	0	573
U. Guam	22,388	0	7,715	13,548	160	266	0	126	0	0	573
Puerto Rico	115,688	1,116	4,975	70,281	277	10,300	76	1,857	4,906	10,331	11,569
Public	108,678	1,116	4,975	65,403	277	10,300	76	1,857	4,906	10,331	9,437
U. Puerto Rico, Cayey	1,519	0	0	81	0	248	0	237	953	0	0
U. Puerto Rico, Humacao	2,074	0	105	117	0	1,852	0	0	0	0	0
U. Puerto Rico, Mayaguez	13,989	333	1,976	368	51	2,339	0	177	0	7,401	1,344
U. Puerto Rico, Medical Sciences Campus	61,235	0	250	60,985	0	0	0	0	0	0	0
U. Puerto Rico, Ponce	659	0	0	401	69	9	0	0	0	0	180
U. Puerto Rico, Rio Piedras	29,202	783	2,644	3,451	157	5,852	76	1,443	3,953	2,930	7,913
Private	7,010	0	0	4,878	0	0	0	0	0	0	2,132
U. Ana G. Mendez, Gurabo	2,132	0	0	0	0	0	0	0	0	0	2,132
U. Central del Caribe	4,878	0	0	4,878	0	0	0	0	0	0	0
Virgin Islands	20,259	267	8,729	8,130	679	1,130	0	534	0	790	0
Public	20,259	267	8,729	8,130	679	1,130	0	534	0	790	0
U. of the Virgin Islands	20,259	267	8,729	8,130	679	1,130	0	534	0	790	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^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, with \$2,333,049 thousand in total R&D expenditures in FY 2023.

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

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.