

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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	97,680,528	3,224,949	3,690,235	56,498,207	879,526	6,167,583	1,443,894	3,165,440	1,156,452	15,596,634	5,857,608
Public	63,712,945	1,953,690	2,908,828	34,947,019	509,716	3,867,258	1,080,636	2,134,847	928,285	11,119,207	4,263,459
Private	33,967,583	1,271,259	781,407	21,551,188	369,810	2,300,325	363,258	1,030,593	228,167	4,477,427	1,594,149
Alabama	1,431,393	86,237	38,775	856,109	8,397	53,814	21,830	19,400	3,089	239,349	104,393
Public	1,409,452	85,362	38,775	841,037	7,509	51,904	21,722	19,311	3,089	236,394	104,349
Alabama A&M U.	9,611	372	0	5,654	78	758	201	237	0	1,925	386
Alabama State U.	3,178	192	0	2,471	0	0	0	0	0	483	32
Auburn U., Auburn	304,439	5,174	4,791	128,578	3,875	17,011	3,848	3,856	3,031	93,219	41,056
Troy U.	2,517	1	71	180	4	1,916	3	40	0	56	246
U. Alabama, Birmingham	713,480	898	66	653,373	263	6,282	9,755	494	0	30,637	11,712
U. Alabama, Huntsville	169,532	60,893	23,111	2,695	655	17,852	349	1,113	0	53,958	8,906
U. Alabama, Tuscaloosa	163,204	16,400	5,895	22,348	2,367	7,524	5,349	12,938	58	49,885	40,440
U. South Alabama	43,491	1,432	4,841	25,738	267	561	2,217	633	0	6,231	1,571
Private	21,941	875	0	15,072	888	1,910	108	89	0	2,955	44
Tuskegee U.	21,941	875	0	15,072	888	1,910	108	89	0	2,955	44
Alaska	226,717	955	129,232	37,609	181	14,453	116	2,763	18,288	19,826	3,294
Public	225,110	955	127,684	37,589	181	14,453	116	2,763	18,288	19,826	3,255
U. Alaska, Anchorage	21,024	48	5,286	8,875	0	577	57	1,529	1,296	1,957	1,399
U. Alaska, Fairbanks	202,516	907	121,905	28,235	181	13,832	59	1,184	16,488	17,869	1,856
U. Alaska, Southeast	1,570	0	493	479	0	44	0	50	504	0	0
Private	1,607	0	1,548	20	0	0	0	0	0	0	39
Alaska Pacific U.	1,607	0	1,548	20	0	0	0	0	0	0	39
Arizona	1,690,904	42,176	106,317	658,110	7,528	177,723	22,471	103,143	131,012	281,557	160,867
Public	1,690,384	42,176	106,317	657,590	7,528	177,723	22,471	103,143	131,012	281,557	160,867
Arizona State U.	797,224	21,414	67,062	141,306	3,418	27,777	15,720	80,307	119,141	192,681	128,398
Dine C.	2,091	0	0	2,091	0	0	0	0	0	0	0
Northern Arizona U.	66,729	2,492	5,396	43,147	5	7,427	178	345	1,148	4,194	2,397
U. Arizona	824,340	18,270	33,859	471,046	4,105	142,519	6,573	22,491	10,723	84,682	30,072
Private	520	0	0	520	0	0	0	0	0	0	0
Sonoran U. Health Sciences	520	0	0	520	0	0	0	0	0	0	0
Arkansas	416,507	10,932	5,334	312,679	70	12,895	1,418	7,565	856	42,770	21,988
Public	416,507	10,932	5,334	312,679	70	12,895	1,418	7,565	856	42,770	21,988
Arkansas State U., Jonesboro	8,214	299	0	5,942	0	886	43	187	276	508	73

TABLE 71

**Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2022**

(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 for Medical Sciences	205,493	0	0	205,493	0	0	0	0	0	0	0
U. Arkansas, Fayetteville	184,080	6,819	5,333	92,217	59	10,739	1,294	6,866	0	40,691	20,062
U. Arkansas, Little Rock	7,530	3,204	1	1,519	1	292	0	146	0	1,571	796
U. Arkansas, Pine Bluff	7,506	0	0	6,299	0	513	0	114	580	0	0
U. Central Arkansas	3,684	610	0	1,209	10	465	81	252	0	0	1,057
California	12,107,605	288,264	535,533	7,639,018	74,172	1,050,483	152,296	390,272	213,860	1,251,330	512,377
Public	8,558,137	136,791	422,601	5,302,878	62,605	696,437	122,240	282,147	212,832	989,533	330,073
California Polytechnic State U., San Luis Obispo	33,155	359	2,006	9,048	2,826	5,294	183	738	74	8,472	4,155
California State Polytechnic U., Humboldt	15,612	76	863	4,020	1	899	0	2,088	259	6,779	627
California State Polytechnic U., Pomona	7,909	304	13	3,501	80	1,301	20	22	0	1,759	909
California State U., Bakersfield	4,815	0	69	75	1,457	322	72	261	0	440	2,119
California State U., Channel Islands	3,377	69	0	1,401	568	406	8	140	696	4	85
California State U., Chico	4,177	0	624	1,445	42	166	0	102	0	1,192	606
California State U., Dominguez Hills	4,230	413	15	335	72	1,464	435	197	0	0	1,299
California State U., East Bay	19,035	287	816	2,587	377	895	207	2,148	0	133	11,585
California State U., Fresno	12,603	234	7	4,894	1,626	2,668	11	652	0	1,970	541
California State U., Fullerton	16,642	1,047	414	4,038	1,234	1,615	404	1,163	1,423	1,062	4,242
California State U., Long Beach	17,807	390	399	4,858	369	3,494	1,974	574	52	3,671	2,026
California State U., Los Angeles	9,839	241	202	1,229	0	5,776	58	391	0	1,423	519
California State U., Maritime Academy	526	0	70	0	0	0	0	0	0	388	68
California State U., Monterey Bay	8,975	1,517	2,702	3,977	175	446	8	89	0	0	61
California State U., Northridge	19,638	173	1,181	5,528	435	7,084	308	312	82	2,621	1,914
California State U., Sacramento	23,795	221	808	1,154	131	403	319	3,830	5,269	8,253	3,407
California State U., San Bernardino	11,929	672	75	1,251	311	2,161	2,206	278	235	658	4,082
California State U., San Marcos	9,238	450	123	1,456	9	981	987	121	3,730	527	854
California State U., Stanislaus	1,966	215	2	1,094	218	117	114	123	0	0	83
Naval Postgraduate School	64,055	11,304	5,148	872	2,859	4,745	257	6,114	6,039	21,556	5,161
San Diego State U.	123,856	2,321	2,684	36,057	3,896	7,435	18,073	5,482	7,315	14,048	26,545
San Francisco State U.	36,617	1,878	4,988	13,356	1,288	3,626	1,917	3,159	1,424	2,423	2,558
San Jose State U.	71,695	151	16,303	5,838	1,157	4,464	17,046	3,260	0	6,968	16,508
Sonoma State U.	3,774	5	1,938	748	511	62	73	72	30	17	318
U. California, Berkeley	981,035	12,736	8,644	275,739	9,474	196,281	16,945	73,560	106,357	206,541	74,758
U. California, Davis	883,807	5,764	32,940	626,320	4,392	35,319	3,509	38,078	10,220	114,118	13,147

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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. California, Irvine	534,947	24,680	11,555	318,016	7,424	40,171	11,147	13,324	987	75,898	31,745
U. California, Los Angeles	1,536,197	14,755	45,869	1,110,788	9,537	55,159	17,022	68,872	50,149	98,403	65,643
U. California, Merced	48,147	1,387	4,454	10,814	1,863	6,863	493	2,936	2,638	11,997	4,702
U. California, Office of the President	54,640	0	0	45,843	0	8,725	0	0	0	0	72
U. California, Riverside	199,135	7,468	11,310	107,118	2,207	17,938	5,411	6,764	2,261	32,758	5,900
U. California, San Diego	1,533,357	28,879	187,175	915,619	6,383	97,804	19,075	31,031	8,417	212,583	26,391
U. California, San Francisco	1,805,950	0	0	1,734,339	0	71,611	0	0	0	0	0
U. California, Santa Barbara	278,897	13,354	43,416	19,387	1,335	72,934	3,276	10,473	4,939	97,329	12,454
U. California, Santa Cruz	176,760	5,441	35,788	30,133	348	37,808	682	5,793	236	55,542	4,989
Private	3,549,468	151,473	112,932	2,336,140	11,567	354,046	30,056	108,125	1,028	261,797	182,304
Azusa Pacific U.	3,389	29	0	691	30	176	868	87	0	10	1,498
Biola U.	3,260	0	0	170	0	0	2,469	0	0	2	619
California Institute of Technology	478,142	11,363	57,033	98,580	1,063	227,465	0	0	0	51,975	30,663
California Lutheran U.	627	0	3	171	0	42	0	178	233	0	0
Chapman U.	34,212	708	324	13,148	29	1,814	1,329	3,609	0	539	12,712
Charles R. Drew U. of Medicine and Science	14,581	0	0	14,581	0	0	0	0	0	0	0
Claremont Graduate U.	8,382	76	0	0	74	0	595	2,075	0	0	5,562
Claremont McKenna C.	5,893	24	4	272	163	385	478	4,189	30	0	348
Harvey Mudd C.	3,350	711	0	605	378	744	0	0	249	608	55
High Tech High Graduate School of Ed.	6,203	0	0	0	0	0	0	0	0	0	6,203
Keck Graduate Institute	1,282	0	0	1,282	0	0	0	0	0	0	0
La Sierra U.	2,246	0	0	7	0	1	73	0	0	0	2,165
Loma Linda U.	15,517	0	0	14,632	0	0	866	0	0	0	19
Loyola Marymount U.	12,773	303	13	2,308	14	383	1,713	1,072	165	57	6,745
Marshall B. Ketchum U.	1,559	0	0	1,559	0	0	0	0	0	0	0
Occidental C.	4,139	313	1,416	577	108	877	443	334	0	0	71
Pepperdine U.	3,775	0	0	2,022	29	89	174	248	131	0	1,082
Pomona C.	2,589	120	272	338	301	695	86	515	0	0	262
Santa Clara U.	4,225	0	0	543	41	589	140	512	0	1,741	659
Scripps Research Institute	492,639	0	0	492,639	0	0	0	0	0	0	0
Stanford U.	1,384,555	25,448	30,947	999,214	6,408	101,529	15,648	18,390	161	142,213	44,597
Touro U., California	2,561	0	0	2,290	0	0	0	0	0	0	271
U. of the Pacific	1,835	70	53	1,392	0	152	0	0	30	135	3

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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. San Diego	10,143	0	185	233	1,524	1,237	29	1,086	0	820	5,029
U. San Francisco	2,657	204	374	970	13	172	42	272	29	3	578
U. Southern California	1,039,905	112,104	22,308	680,873	1,392	17,696	5,103	75,558	0	63,694	61,177
Western U. of Health Sciences	9,029	0	0	7,043	0	0	0	0	0	0	1,986
Colorado	1,898,797	31,032	195,084	967,377	9,465	181,929	27,194	37,201	16,117	343,905	89,493
Public	1,849,590	30,954	194,182	961,827	9,178	177,193	19,836	33,523	16,117	340,273	66,507
Colorado School of Mines	98,404	3,443	9,411	2,918	1,012	12,923	90	696	0	60,371	7,540
Colorado State U., Fort Collins	456,911	4,052	53,708	289,050	3,006	14,885	3,476	15,024	14,505	47,833	11,372
Colorado State U., Pueblo	3,117	326	0	1,214	0	0	0	27	82	0	1,468
Fort Lewis C.	2,765	17	3	806	0	743	0	0	0	623	573
U. Colorado Anschutz Medical Campus <sup>a</sup>	611,358	0	71	606,860	0	566	313	449	0	957	2,142
U. Colorado Boulder	611,380	19,612	129,830	56,184	3,616	143,342	13,945	15,231	1,523	191,531	36,566
U. Colorado Colorado Springs	7,761	2,607	187	379	21	457	378	861	7	1,883	981
U. Colorado Denver <sup>a</sup>	18,080	687	650	2,804	989	1,895	1,554	638	0	3,906	4,957
U. Northern Colorado	3,308	0	202	1,368	83	72	80	597	0	0	906
U.S. Air Force Academy	36,506	210	120	244	451	2,310	0	0	0	33,169	2
Private	49,207	78	902	5,550	287	4,736	7,358	3,678	0	3,632	22,986
Colorado C.	3,646	0	806	128	44	316	97	136	0	0	2,119
U. Denver	45,561	78	96	5,422	243	4,420	7,261	3,542	0	3,632	20,867
Connecticut	1,587,047	15,107	18,847	1,269,534	6,967	73,331	40,374	27,135	2,186	106,924	26,642
Public	376,612	4,923	11,653	221,707	2,747	12,109	26,659	10,935	2,106	69,087	14,686
Central Connecticut State U.	1,035	27	5	121	24	104	19	346	0	185	204
Eastern Connecticut State U.	1,734	9	8	281	0	7	109	399	99	0	822
Southern Connecticut State U.	6,286	121	386	1,001	107	753	146	466	323	0	2,983
U. Connecticut	367,557	4,766	11,254	220,304	2,616	11,245	26,385	9,724	1,684	68,902	10,677
Private	1,210,435	10,184	7,194	1,047,827	4,220	61,222	13,715	16,200	80	37,837	11,956
Connecticut C.	1,875	134	0	477	0	690	325	57	0	0	192
Trinity C., Hartford	1,620	9	0	965	31	147	118	161	0	42	147
U. Hartford	1,090	3	0	82	34	8	34	142	0	752	35
U. New Haven	4,548	1,363	151	350	17	128	325	1,738	0	329	147
Wesleyan U.	10,101	0	632	1,833	506	2,622	1,363	262	16	0	2,867
Yale U.	1,191,201	8,675	6,411	1,044,120	3,632	57,627	11,550	13,840	64	36,714	8,568
Delaware	397,123	5,925	34,168	97,273	6,336	54,042	13,189	24,345	7,511	124,204	30,130

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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	397,123	5,925	34,168	97,273	6,336	54,042	13,189	24,345	7,511	124,204	30,130
Delaware State U.	29,016	185	752	15,815	652	3,965	240	1,618	0	207	5,582
U. Delaware	368,107	5,740	33,416	81,458	5,684	50,077	12,949	22,727	7,511	123,997	24,548
District of Columbia	783,163	30,996	1,867	425,801	5,578	55,921	12,104	88,649	9,127	42,968	110,152
Public	14,699	255	183	3,210	502	0	0	3,020	0	5,725	1,804
National Defense U.	3,920	0	0	400	0	0	0	3,020	0	0	500
U. of the District of Columbia	10,779	255	183	2,810	502	0	0	0	0	5,725	1,304
Private	768,464	30,741	1,684	422,591	5,076	55,921	12,104	85,629	9,127	37,243	108,348
American U.	67,616	753	1,091	1,117	1,615	4,351	1,109	17,191	4,458	0	35,931
Catholic U. of America	38,191	0	0	637	0	23,353	1,064	1,897	8	3,076	8,156
Gallaudet U.	6,360	1,954	0	1,682	2	60	1,576	813	0	0	273
George Washington U.	275,483	8,137	288	184,091	781	6,840	3,090	25,553	4,661	23,736	18,306
Georgetown U.	313,220	18,321	0	190,912	2,463	15,192	2,719	38,879	0	0	44,734
Howard U.	67,594	1,576	305	44,152	215	6,125	2,546	1,296	0	10,431	948
Florida	3,048,253	98,622	167,943	1,594,522	21,899	209,785	109,248	101,362	13,185	404,784	326,903
Public	2,531,408	89,239	92,916	1,235,706	20,213	196,312	90,986	98,408	13,037	377,674	316,917
Florida A&M U.	50,636	1,208	6,499	26,175	15	1,905	108	62	62	5,752	8,850
Florida Atlantic U.	61,748	2,776	1,332	31,522	1,403	2,364	2,486	261	0	16,449	3,155
Florida Gulf Coast U.	9,896	5	2,791	2,606	105	207	79	2	0	222	3,879
Florida International U.	281,665	18,348	18,793	67,166	2,201	33,613	37,185	20,526	3,325	48,549	31,959
Florida Polytechnic U.	1,725	210	0	0	9	4	0	33	0	1,310	159
Florida State U.	355,986	9,004	17,014	67,760	7,277	65,661	17,992	17,838	6,779	58,212	88,449
U. Central Florida	221,488	26,882	5,319	33,455	3,609	39,361	9,368	8,004	634	59,060	35,796
U. Florida	1,085,834	15,896	18,734	797,710	2,303	39,928	14,968	16,987	20	134,339	44,949
U. North Florida	18,394	575	213	2,409	28	1,134	1,180	1,040	0	2,472	9,343
U. South Florida <sup>b</sup>	405,166	9,503	22,129	203,592	3,192	10,866	7,280	30,394	1,398	50,859	65,953
U. West Florida	38,870	4,832	92	3,311	71	1,269	340	3,261	819	450	24,425
Private	516,845	9,383	75,027	358,816	1,686	13,473	18,262	2,954	148	27,110	9,986
Embry-Riddle Aeronautical U.	28,650	2,417	1,823	1,064	111	5,852	0	66	0	16,049	1,268
Florida Institute of Technology	17,706	5,289	1,985	1,313	298	1,682	1,261	0	0	5,100	778
Nova Southeastern U.	31,189	57	11,526	14,336	20	0	846	981	20	0	3,403
U. Miami	439,300	1,620	59,693	342,103	1,257	5,939	16,155	1,907	128	5,961	4,537
Georgia	3,260,128	183,051	41,329	1,523,875	21,580	105,473	52,458	95,866	15,744	1,018,482	202,270

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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	2,191,995	177,355	38,537	591,648	18,936	69,549	46,738	90,942	13,570	963,574	181,146
Augusta U.	127,313	291	0	123,587	110	266	183	689	0	0	2,187
Fort Valley State U.	9,969	0	79	9,807	0	83	0	0	0	0	0
Georgia Institute of Technology	1,231,485	161,111	14,771	37,289	8,634	33,858	4,126	12,596	0	935,632	23,468
Georgia Southern U.	36,362	1,104	642	6,734	1,344	5,740	994	4,176	119	3,302	12,207
Georgia State U.	215,908	5,346	2,276	73,616	2,033	18,277	10,364	37,729	0	0	66,267
Kennesaw State U.	21,705	3,538	0	5,744	1,114	1,096	112	1,661	1,211	1,652	5,577
Savannah State U.	1,888	0	694	255	0	53	0	13	264	609	0
U. Georgia	545,631	5,509	19,938	334,447	5,701	10,161	30,933	33,930	11,976	22,379	70,657
U. North Georgia	1,734	456	137	169	0	15	26	148	0	0	783
Private	1,068,133	5,696	2,792	932,227	2,644	35,924	5,720	4,924	2,174	54,908	21,124
Clark Atlanta U.	8,791	395	0	5,400	323	2,620	0	0	0	41	12
Emory U.	958,281	4,730	2,792	874,729	1,385	28,576	4,796	4,780	0	16,415	20,078
Mercer U.	50,222	149	0	8,473	221	1,925	300	89	464	38,452	149
Morehouse C.	5,664	396	0	451	47	2,393	59	0	1,710	0	608
Morehouse School of Medicine	42,489	0	0	42,489	0	0	0	0	0	0	0
Spelman C.	2,686	26	0	685	668	410	565	55	0	0	277
Hawaii	301,272	18,299	93,246	129,186	442	23,669	455	2,827	4,330	24,588	4,230
Public	297,970	18,299	92,299	127,755	442	23,669	455	2,745	4,330	24,574	3,402
U. Hawaii, Hilo	8,001	89	1,770	4,995	33	376	0	338	354	0	46
U. Hawaii, Manoa	277,323	17,690	78,404	122,760	409	23,293	455	2,407	3,976	24,574	3,355
U. Hawaii, system office	12,646	520	12,125	0	0	0	0	0	0	0	1
Private	3,302	0	947	1,431	0	0	0	82	0	14	828
Hawaii Pacific U.	3,302	0	947	1,431	0	0	0	82	0	14	828
Idaho	179,835	7,856	11,010	96,564	1,696	10,515	426	8,752	3,206	33,230	6,580
Public	179,835	7,856	11,010	96,564	1,696	10,515	426	8,752	3,206	33,230	6,580
Boise State U.	47,617	3,448	2,927	12,000	1,550	6,848	101	2,458	606	14,758	2,921
Idaho State U.	16,615	735	2,092	6,213	18	1,490	200	334	527	4,752	254
U. Idaho	115,603	3,673	5,991	78,351	128	2,177	125	5,960	2,073	13,720	3,405
Illinois	3,160,587	169,494	23,308	1,947,188	16,607	276,724	36,112	79,018	48,936	427,983	135,217
Public	1,338,296	119,106	11,514	655,520	8,324	110,638	18,571	23,662	22,363	285,436	83,162
Chicago State U.	3,701	78	0	2,223	0	1,341	0	59	0	0	0
Illinois State U.	25,510	165	491	4,488	198	1,812	489	43	0	125	17,699

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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
Northeastern Illinois U.	2,224	104	54	1,447	43	0	0	8	0	7	561
Northern Illinois U.	27,068	983	1,320	2,620	62	6,220	1,018	4,365	0	4,132	6,348
Southern Illinois U., Carbondale	46,967	389	1,522	38,470	9	1,825	252	1,358	834	2,308	0
Southern Illinois U., Edwardsville	19,152	71	604	8,447	70	426	0	100	36	8,439	959
U. Illinois, Chicago	440,573	12,880	948	325,514	4,213	21,497	3,620	8,851	5,584	39,656	17,810
U. Illinois, Springfield	2,881	0	0	33	0	14	0	1,978	57	0	799
U. Illinois, Urbana-Champaign	765,909	104,436	6,575	270,361	3,729	77,419	13,192	6,718	15,852	228,786	38,841
Western Illinois U.	4,311	0	0	1,917	0	84	0	182	0	1,983	145
Private	1,822,291	50,388	11,794	1,291,668	8,283	166,086	17,541	55,356	26,573	142,547	52,055
DePaul U.	8,362	736	88	2,088	154	13	194	2,780	0	76	2,233
Erikson Institute	2,068	0	0	0	0	0	0	0	0	0	2,068
Illinois Institute of Technology	29,791	3,307	146	9,464	429	3,705	0	91	66	12,502	81
Loyola U., Chicago	46,169	456	0	39,546	90	1,691	1,115	1,189	0	95	1,987
Midwestern U.	11,069	0	0	11,069	0	0	0	0	0	0	0
Northwestern U.	1,000,695	10,117	1,443	721,230	2,215	90,194	4,231	24,515	26,507	88,008	32,235
Rosalind Franklin U. of Medicine and Science	12,988	0	0	12,579	0	0	409	0	0	0	0
Rush U.	114,874	0	0	111,165	0	0	3,709	0	0	0	0
Toyota Technological Institute, Chicago	4,470	4,470	0	0	0	0	0	0	0	0	0
U. Chicago	591,805	31,302	10,117	384,527	5,395	70,483	7,883	26,781	0	41,866	13,451
Indiana	1,872,200	100,214	18,743	870,248	10,600	133,218	32,836	80,508	34,261	437,685	153,887
Public	1,589,905	85,147	18,743	833,450	5,569	85,548	26,866	67,764	17,781	333,912	115,125
Ball State U.	9,932	348	0	4,876	83	1,106	219	772	0	0	2,528
Indiana State U.	1,354	0	139	548	24	130	0	0	0	87	426
Indiana U., Bloomington	751,309	40,488	9,084	550,148	2,329	31,360	13,583	40,995	12,406	12,030	38,886
Indiana U.-Purdue U., Indianapolis	64,162	5,049	1,393	21,631	177	2,736	4,196	11,122	3,754	6,626	7,478
Purdue U., Fort Wayne	2,134	0	0	343	229	76	262	105	179	169	771
Purdue U., Northwest	6,387	394	0	1,120	0	202	9	0	288	2,606	1,768
Purdue U., West Lafayette	754,627	38,868	8,127	254,784	2,727	49,938	8,597	14,770	1,154	312,394	63,268
Private	282,295	15,067	0	36,798	5,031	47,670	5,970	12,744	16,480	103,773	38,762
Butler U.	1,691	0	0	1,276	0	154	48	15	0	0	198
U. Notre Dame	280,604	15,067	0	35,522	5,031	47,516	5,922	12,729	16,480	103,773	38,564
Iowa	1,005,800	10,271	9,289	599,319	20,818	87,568	14,588	17,408	2,285	181,708	62,546
Public	990,885	9,974	8,689	592,333	20,623	86,489	14,251	16,032	2,285	181,708	58,501

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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
Iowa State U.	393,184	5,782	4,897	160,235	19,927	30,440	3,852	10,305	375	132,475	24,896
U. Iowa	594,215	4,187	3,663	431,761	690	55,128	10,399	3,682	1,910	49,233	33,562
U. Northern Iowa	3,486	5	129	337	6	921	0	2,045	0	0	43
Private	14,915	297	600	6,986	195	1,079	337	1,376	0	0	4,045
Des Moines U.	5,307	0	600	4,128	0	36	36	280	0	0	227
Drake U.	1,691	19	0	536	109	220	6	9	0	0	792
Grinnell C.	5,867	278	0	272	86	823	295	1,087	0	0	3,026
Palmer C. of Chiropractic, Davenport	2,050	0	0	2,050	0	0	0	0	0	0	0
Kansas	882,644	8,381	15,012	378,280	3,765	32,562	16,776	13,656	17,307	280,475	116,430
Public	882,644	8,381	15,012	378,280	3,765	32,562	16,776	13,656	17,307	280,475	116,430
Kansas State U.	212,974	3,900	1,295	124,308	2,956	14,709	4,337	10,049	7,521	29,980	13,919
Pittsburg State U.	2,884	0	0	526	0	27	0	22	0	2,309	0
U. Kansas	405,267	4,418	13,717	237,780	682	16,123	11,416	2,768	9,786	22,075	86,502
Wichita State U.	261,519	63	0	15,666	127	1,703	1,023	817	0	226,111	16,009
Kentucky	733,242	6,166	4,505	554,324	2,864	15,882	8,778	6,627	20,306	87,739	26,051
Public	733,242	6,166	4,505	554,324	2,864	15,882	8,778	6,627	20,306	87,739	26,051
Kentucky State U.	9,284	5	0	9,156	119	0	0	0	0	0	4
Morehead State U.	2,880	0	0	517	0	10	41	0	0	2,312	0
Murray State U.	3,371	0	249	2,449	354	293	0	0	0	0	26
Northern Kentucky U.	3,888	122	0	2,148	73	875	405	126	28	0	111
U. Kentucky	476,517	5,913	2,948	352,400	1,582	9,118	5,066	5,072	19,971	61,287	13,160
U. Louisville	229,582	119	166	185,107	661	3,872	2,457	1,130	307	23,630	12,133
Western Kentucky U.	7,720	7	1,142	2,547	75	1,714	809	299	0	510	617
Louisiana	941,868	50,458	44,614	549,349	12,390	53,555	3,953	20,852	14,956	108,840	82,901
Public	702,837	48,049	39,558	363,159	11,286	41,240	1,808	13,832	14,691	102,010	67,204
Grambling State U.	2,306	0	0	0	0	1,345	0	0	0	0	961
Louisiana State U., Baton Rouge	344,556	18,477	33,440	173,539	6,720	30,594	832	4,752	11,070	53,974	11,158
Louisiana State U., Health Sciences Center, New Orleans	53,995	0	0	53,995	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	29,502	0	0	29,502	0	0	0	0	0	0	0
Louisiana Tech U.	26,591	1,938	0	3,703	914	2,110	261	785	0	11,673	5,207
Northwestern State U. Louisiana	1,848	132	0	183	23	0	7	881	0	8	614
Southeastern Louisiana U.	2,407	38	0	1,022	0	606	0	10	0	24	707



TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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
Southern U. and A&M C., Agricultural Research and Extension Center	7,048	0	0	7,048	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	4,344	611	0	837	87	200	0	0	0	1,938	671
U. Louisiana, Lafayette	205,201	25,361	4,439	89,731	2,939	3,957	86	4,463	1,343	32,259	40,623
U. Louisiana, Monroe	3,128	0	103	2,583	0	247	0	154	0	0	41
U. New Orleans	21,911	1,492	1,576	1,016	603	2,181	622	2,787	2,278	2,134	7,222
Private	239,031	2,409	5,056	186,190	1,104	12,315	2,145	7,020	265	6,830	15,697
Dillard U.	2,270	0	89	1,199	21	158	1	6	265	7	524
Tulane U.	222,605	1,713	4,967	179,205	1,083	4,579	2,081	6,996	0	6,823	15,158
Xavier U. Louisiana	14,156	696	0	5,786	0	7,578	63	18	0	0	15
Maine	191,739	3,838	27,116	52,145	750	7,492	1,484	5,313	13,140	68,489	11,972
Public	177,429	3,637	25,664	42,343	673	6,427	1,217	4,788	13,140	68,489	11,051
U. Maine	171,931	2,084	25,600	41,542	660	6,427	1,217	2,169	13,120	68,261	10,851
U. Southern Maine	5,498	1,553	64	801	13	0	0	2,619	20	228	200
Private	14,310	201	1,452	9,802	77	1,065	267	525	0	0	921
Bates C.	2,468	40	65	1,743	1	330	54	144	0	0	91
Bowdoin C.	2,648	64	349	1,275	40	376	126	60	0	0	358
Colby C.	2,530	97	376	831	36	345	80	316	0	0	449
U. New England	6,664	0	662	5,953	0	14	7	5	0	0	23
Maryland	5,168,958	351,718	249,613	2,134,082	149,708	455,389	39,588	87,654	88,481	1,511,869	100,856
Public	1,748,646	81,481	152,824	954,536	8,231	138,107	31,844	78,536	25,128	187,223	90,736
Bowie State U.	3,351	1,169	0	1,462	0	481	0	0	0	0	239
Morgan State U.	29,482	605	5,672	7,898	192	2,314	36	86	0	8,375	4,304
Salisbury U.	10,614	328	882	2,182	123	326	34	474	0	3	6,262
Towson U.	8,788	1,204	654	1,816	269	880	586	816	0	0	2,563
U. Baltimore	6,646	336	48	0	0	0	0	2,501	0	0	3,761
U. Maryland <sup>c</sup>	1,228,550	63,281	78,455	655,867	4,538	110,607	9,885	56,249	22,223	164,304	63,141
U. Maryland Center for Environmental Science	53,718	6	42,407	8,403	0	1,014	0	509	475	0	904
U. Maryland, Baltimore County	110,319	13,685	20,378	13,643	1,893	20,806	1,891	17,891	2,430	8,140	9,562
U. Maryland, Eastern Shore	9,274	0	3,778	5,437	0	0	0	0	0	59	0
U.S. Naval Academy	10,664	867	550	0	1,216	1,679	0	10	0	6,342	0
Uniformed Services U. of the Health Sciences	277,240	0	0	257,828	0	0	19,412	0	0	0	0
Private	3,420,312	270,237	96,789	1,179,546	141,477	317,282	7,744	9,118	63,353	1,324,646	10,120

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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
Johns Hopkins U. <sup>d</sup>	3,420,312	270,237 i	96,789 i	1,179,546 i	141,477 i	317,282 i	7,744 i	9,118 i	63,353 i	1,324,646 i	10,120 i
Massachusetts	4,837,383	255,980	287,171	2,055,405	57,867	455,427	72,907	305,155	53,084	964,800	329,587
Public	815,687	45,209	23,866	466,394	6,115	48,076	15,525	26,548	2,137	121,832	59,985
Framingham State U.	2,830 i	82 i	0 i	1,586 i	39 i	238 i	53 i	156 i	0 i	0 i	676 i
U. Massachusetts, Amherst	245,158	30,721	4,378	77,193	3,351	23,286	8,227	7,235	1,260	67,776	21,731
U. Massachusetts, Boston	65,215	1,996	3,666	8,974	541	3,076	5,519	12,312	451	1,218	27,462
U. Massachusetts, Dartmouth	33,136	2,552	13,329	2,620	1,417	3,290	0	164	0	8,480	1,284
U. Massachusetts, Lowell	111,144	9,858	2,493	17,817	767	18,186	1,726	6,681	426	44,358	8,832
U. Massachusetts, Medical School	358,204	0	0	358,204	0	0	0	0	0	0	0
Private	4,021,696	210,771	263,305	1,589,011	51,752	407,351	57,382	278,607	50,947	842,968	269,602
Amherst C.	7,177	164	1,265	1,741	422	1,649	278	488	447	0	723
Babson C.	1,825	0 i	16 i	0 i	56 i	0 i	0 i	483 i	0 i	0 i	1,270 i
Bentley U.	1,161	75	13	652	51	0	0	84	0	0	286
Boston C.	68,958	1,399	9,912	8,226	951	12,202	4,174	9,261	0	438	22,395
Boston U.	725,402	17,480	9,399	485,379	4,935	38,445	24,237	12,084	7,203	91,643	34,597
Brandeis U.	102,378	3,218	27	30,648	2,092	16,778	3,793	22,375	2,784	5,264	15,399
Clark U.	8,813	138	843	3,706	0	1,277	102	2,504	0	0	243
Franklin W. Olin C. of Engineering	2,554	0	0	0	0	0	0	0	0	2,380	174
Harvard U.	1,308,458	21,712	38,984	741,297	22,230	118,530	6,355	144,801	6,472	96,920	111,157
Massachusetts Institute of Technology	989,166	124,985	29,992	128,090	9,676	174,813	803	54,104	19,882	397,946	48,875
MGH Institute of Health Professions	5,805	0	0	4,628	0	0	0	0	0	0	1,177
Mount Holyoke C.	2,112	235	90	520	159	370	457	37	0	0	244
New England C. of Optometry	1,868	0	0	1,868	0	0	0	0	0	0	0
Northeastern U.	231,607	27,623	5,122	37,639	1,107	27,207	10,494	9,361	0	92,855	20,199
Smith C.	5,831	504	120	2,701	296	453	145	152	66	599	795
Suffolk U.	1,401	0	14	19	0	45	236	47	0	18	1,022
Tufts U.	231,224	2,568	982	134,584	6,353	11,206	5,146	19,308	14,093	32,535	4,449
Wellesley C.	6,326	437	169	1,033	179	214	954	1,133	0	395	1,812
Western New England U.	2,052	69	0	467	50	0	2	0	0	1,464	0
Williams C.	5,657 i	120 i	337 i	2,275 i	105 i	675 i	206 i	531 i	0 i	0 i	1,408 i
Woods Hole Oceanographic Institution	255,017	0 i	166,020 i	0	0	0	0	0	0	88,997 i	0
Worcester Polytechnic Institute	56,904	10,044	0	3,538	3,090	3,487	0	1,854	0	31,514	3,377
Michigan	3,082,410	47,706	48,418	1,680,280	34,753	290,075	40,311	239,052	30,115	476,763	194,937

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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	2,983,908	47,400	48,229	1,594,060	34,580	287,279	40,172	238,313	29,826	474,494	189,555
Central Michigan U.	25,105	100	683	17,871	122	2,396	390	112	1,831	499	1,101
Eastern Michigan U.	8,025	232	139	2,225	55	540	220	632	59	407	3,516
Grand Valley State U.	6,695	111	2,928	1,765	38	331	54	839	0	117	512
Lake Superior State U.	2,056	0	0	1,988	0	21	0	6	0	41	0
Michigan State U.	759,229	15,978	6,532	347,119	11,990	183,514	13,643	43,672	16,268	81,143	39,370
Michigan Technological U.	91,084	7,889	19,663	2,804	1,720	4,600	697	1,438	769	48,400	3,104
Northern Michigan U.	1,888	28	149	1,248	0	43	93	39	0	0	288
Oakland U.	38,061	3,608	0	9,762	80	8,447	367	61	0	14,783	953
Saginaw Valley State U.	2,862 i	268 i	0 i	1,845 i	0 i	0 i	0 i	203 i	0 i	0 i	546 i
U. Michigan, Ann Arbor	1,770,708	16,789	15,865	1,018,062	20,129	65,018	20,806	189,167	4,036	299,254	121,582
U. Michigan, Dearborn	8,180	24	0	217	163	262	178	88	131	6,703	414
Wayne State U.	242,247	2,214	193	183,074	208	20,880	2,572	1,575	6,648	13,632	11,251
Western Michigan U. and Homer Stryker M.D. School of Medicine	27,768	159	2,077	6,080	75	1,227	1,152	481	84	9,515	6,918
Private	98,502	306	189	86,220	173	2,796	139	739	289	2,269	5,382
Albion C.	1,300 i	63 i	103 i	430 i	59 i	139 i	0 i	162 i	0 i	0 i	344 i
Calvin U.	3,169	73 i	39 i	479 i	57 i	358 i	41 i	62 i	289 i	129 i	1,642 i
Hope C.	6,355	74	47	2,230	33	2,122	45	515	0	430	859
Kettering U.	816	19	0	0	3	29	0	0	0	424	341
Lawrence Technological U.	3,050	53	0	0	21	148	0	0	0	726	2,102
U. Detroit Mercy	5,186	24	0	4,455	0	0	53	0	0	560	94
Van Andel Research Institute	78,626	0	0	78,626	0	0	0	0	0	0	0
Minnesota	1,241,862	29,439	15,247	886,864	8,344	44,811	30,439	42,377	2,968	134,697	46,676
Public	1,229,878	28,963	13,643	884,492	7,799	43,266	29,713	40,837	2,968	133,835	44,362
Minnesota State U., Mankato	2,206	5	8	813	0	39	120	310	0	871	40
St. Cloud State U.	2,226	16	12	417	0	19	3	217	2	30	1,510
U. Minnesota, Duluth	23,362	133	528	19,244	184	493	198	265	0	1,892	425
U. Minnesota, Twin Cities	1,202,084	28,809	13,095	864,018	7,615	42,715	29,392	40,045	2,966	131,042	42,387
Private	11,984	476	1,604	2,372	545	1,545	726	1,540	0	862	2,314
C. of Saint Benedict	1,228 i	23 i	0 i	519 i	16 i	124 i	42 i	132 i	0 i	0 i	372 i
Carleton C.	4,358	402	1,374	330	372	301	217	675	0	0	687
Macalester C.	1,691	17	223	158	123	622	28	252	0	0	268
Saint John's U.	1,298 i	23 i	0 i	542 i	15 i	125 i	43 i	144 i	0 i	0 i	406 i

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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
St. Catherine U.	933	0	0	537	0	33	0	322	0	0	41
U. of St. Thomas (MN)	2,476	11	7	286	19	340	396	15	0	862	540
Mississippi	565,341	9,222	46,148	260,407	2,457	45,730	4,483	41,341	4,300	92,189	59,064
Public	563,005	9,130	46,148	259,200	2,366	45,193	4,372	41,281	4,300	92,189	58,826
Alcorn State U.	16,726 i	0 i	0 i	8,074 i	0 i	0 i	0 i	8,429 i	0 i	222 i	1 i
Jackson State U.	17,481	671	0	5,257	26	7,277	181	4	190	2,512	1,363
Mississippi State U.	303,418	7,546	16,607	140,283	1,721	12,061	2,015	25,716	3,487	73,980	20,002
U. Mississippi	152,903	251	1,614	93,555	500	11,784	2,037	5,018	623	8,095	29,426
U. Southern Mississippi	72,477	662	27,927	12,031	119	14,071	139	2,114	0	7,380	8,034
Private	2,336	92	0	1,207	91	537	111	60	0	0	238
Tougaloo C.	2,336 i	92 i	0 i	1,207 i	91 i	537 i	111 i	60 i	0 i	0 i	238 i
Missouri	1,708,351	16,171	12,782	1,346,065	3,837	45,389	15,924	14,885	5,436	172,172	75,690
Public	574,233	10,316	2,225	336,413	2,061	15,847	8,280	11,280	3,699	142,462	41,650
Lincoln U., Jefferson City	11,500	0	28	11,109	0	0	0	145	218	0	0
Missouri State U.	11,162	1	337	1,673	0	291	52	172	0	8,630	6
Missouri U. of Science and Technology	53,357	2,899	0	797	221	3,734	154	149	169	43,119	2,115
U. Missouri, Columbia	432,310	6,157	1,575	283,404	1,666	9,469	6,487	8,731	1,838	78,494	34,489
U. Missouri, Kansas City	52,657	1,075	285	33,588	0	1,277	1,359	148	734	12,219	1,972
U. Missouri, Saint Louis	13,247	184	0	5,842	174	1,076	228	1,935	740	0	3,068
Private	1,134,118	5,855	10,557	1,009,652	1,776	29,542	7,644	3,605	1,737	29,710	34,040
Saint Louis U.	82,740	1,221	3,879	66,726	192	3,579	435	1,974	0	1,559	3,175
U. of Health Sciences and Pharmacy in St. Louis	4,280	0	0	4,271	0	9	0	0	0	0	0
Washington U., Saint Louis	1,047,098	4,634	6,678	938,655	1,584	25,954	7,209	1,631	1,737	28,151	30,865
Montana	340,611	5,250	19,730	159,674	3,835	27,877	1,389	22,364	10,256	58,661	31,575
Public	340,611	5,250	19,730	159,674	3,835	27,877	1,389	22,364	10,256	58,661	31,575
Montana State U., Bozeman	200,820	3,026	5,246	82,986	2,852	19,778	673	1,946	10,256	54,188	19,869
Montana Technological U.	14,188	18	8,666	656	0	375	0	0	0	4,473	0
U. Montana, Missoula	125,603	2,206	5,818	76,032	983	7,724	716	20,418	0	0	11,706
Nebraska	626,792	18,018	2,276	420,466	6,168	32,437	15,639	14,355	5,712	67,660	44,061
Public	599,183	16,865	2,276	399,610	5,870	30,417	15,302	13,169	5,712	67,660	42,302
U. Nebraska, central administration	25,402	742	0	13,754	0	0	0	0	0	10,082	824
U. Nebraska, Kearney	4,009	105	0	2,409	0	625	34	23	0	0	813
U. Nebraska, Lincoln	340,260	11,208	2,220	170,212	5,411	29,612	15,053	10,339	838	56,068	39,299

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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. Nebraska, Medical Center	205,253	0	0	205,253	0	0	0	0	0	0	0
U. Nebraska, Omaha	24,259	4,810	56	7,982	459	180	215	2,807	4,874	1,510	1,366
Private	27,609	1,153	0	20,856	298	2,020	337	1,186	0	0	1,759
Creighton U.	27,609	1,153	0	20,856	298	2,020	337	1,186	0	0	1,759
Nevada	312,714	7,659	51,110	121,567	3,864	19,670	8,105	12,997	4,180	45,119	38,443
Public	306,418	7,659	51,110	115,282	3,864	19,670	8,105	12,997	4,180	45,119	38,432
Desert Research Institute	28,478	0	24,804	3,674	0	0	0	0	0	0	0
Nevada State C.	1,191	0	82	1,109	0	0	0	0	0	0	0
U. Nevada, Las Vegas	94,967	1,556	5,393	31,571	2,224	9,030	1,959	7,012	1,068	12,665	22,489
U. Nevada, Reno	181,782	6,103	20,831	78,928	1,640	10,640	6,146	5,985	3,112	32,454	15,943
Private	6,296	0	0	6,285	0	0	0	0	0	0	11
Roseman U. of Health Sciences	6,296	0	0	6,285	0	0	0	0	0	0	11
New Hampshire	551,187	19,260	95,389	226,967	10,440	29,896	16,543	35,281	2,665	61,259	53,487
Public	207,061	1,466	86,456	55,782	1,481	5,090	1,086	15,946	5	25,040	14,709
Plymouth State U.	669	1	424	182	0	0	0	40	5	0	17
U. New Hampshire	206,392	1,465	86,032	55,600	1,481	5,090	1,086	15,906	0	25,040	14,692
Private	344,126	17,794	8,933	171,185	8,959	24,806	15,457	19,335	2,660	36,219	38,778
Dartmouth C. and Dartmouth Hitchcock Medical Center	344,126	17,794	8,933	171,185	8,959	24,806	15,457	19,335	2,660	36,219	38,778
New Jersey	1,516,963	61,484	65,874	697,444	32,808	163,712	22,577	101,174	3,480	280,619	87,791
Public	994,536	28,603	34,360	582,619	16,690	59,623	17,997	28,167	3,480	158,086	64,911
C. New Jersey	3,464	221	0	1,502	22	923	25	31	312	265	163
Kean U.	5,499	850	53	1,234	80	1,576	49	270	14	32	1,341
Montclair State U.	32,202	1,888	2,393	3,830	1,388	1,811	4,824	3,543	0	1,129	11,396
New Jersey Institute of Technology	167,135	10,764	0	31,619	4,727	17,202	0	7,277	114	83,738	11,694
Rowan U.	29,949	540	494	10,188	397	1,483	1,055	0	134	15,432	226
Rutgers, State U. New Jersey, Camden	6,480	2,722	0	275	0	297	108	1,790	0	0	1,288
Rutgers, State U. New Jersey, New Brunswick	712,231	9,306	27,807	521,311	10,013	32,108	10,418	11,158	2,491	57,490	30,129
Rutgers, State U. New Jersey, Newark	28,345	2,252	2,487	10,990	0	4,099	1,039	2,024	415	0	5,039
Stockton U.	1,657	0	798	291	0	0	0	568	0	0	0
William Paterson U.	7,574	60	328	1,379	63	124	479	1,506	0	0	3,635
Private	522,427	32,881	31,514	114,825	16,118	104,089	4,580	73,007	0	122,533	22,880
Monmouth U.	1,938	0	1,572	185	0	110	12	49	0	0	10
Princeton U.	461,185	28,066	29,942	112,932	15,763	101,461	4,568	72,862	0	78,831	16,760

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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
Seton Hall U.	5,741	0	0	463	0	743	0	0	0	0	4,535
Stevens Institute of Technology	53,563	4,815	0	1,245	355	1,775	0	96	0	43,702	1,575
New Mexico	543,867	23,198	28,200	284,944	1,226	25,439	7,573	14,476	9,578	139,455	9,778
Public	543,867	23,198	28,200	284,944	1,226	25,439	7,573	14,476	9,578	139,455	9,778
New Mexico Highlands U.	1,331 i	186 i	187 i	207 i	184 i	187 i	0 i	186 i	0 i	0 i	194 i
New Mexico Institute of Mining and Technology	89,900	14,645	15,847	691	77	1,798	572	0	0	53,897	2,373
New Mexico State U.	121,472	4,103	4,830	53,389	164	13,339	480	679	2,713	40,367	1,408
U. New Mexico	331,164	4,264	7,336	230,657	801	10,115	6,521	13,611	6,865	45,191	5,803
New York	8,280,323	182,919	163,781	5,435,811	59,778	494,029	120,763	188,667	36,221	1,133,396	464,958
Public	1,777,187	58,010	65,278	632,764	17,745	118,017	49,651	57,338	24,952	648,455	104,977
CUNY, Advanced Science Research Center	16,507	0	365	4,493	0	9,558	0	0	0	2,083	8
CUNY, Baruch C.	3,156	1	102	933	533	338	231	84	0	0	934
CUNY, Brooklyn C.	6,220	273	222	802	107	1,998	1,656	109	265	0	788
CUNY, C. Staten Island	3,545	133	25	1,070	173	1,097	631	9	60	0	347
CUNY, City C.	65,569	820	2,547	7,942	220	11,590	1,260	3	0	36,189	4,998
CUNY, Graduate Center	5,509	6	3	6	88	0	249	1,067	462	0	3,628
CUNY, Graduate School of Public Health and Health Policy	16,423	0	0	14,429	0	0	1,994	0	0	0	0
CUNY, Hunter C.	35,348	1,556	1,197	7,870	200	4,838	9,591	1,827	386	191	7,692
CUNY, John Jay C. of Criminal Justice	16,233	0	0	666	106	650	2,221	764	474	0	11,352
CUNY, Lehman C.	4,656	9	44	371	214	2,650	16	380	253	0	719
CUNY, New York City C. of Technology	1,955	195	0	304	239	727	0	0	9	50	431
CUNY, Queens C.	21,434	508	561	14,572	278	2,266	2,015	603	224	0	407
CUNY, system office	2,900	113	0	180	0	0	88	0	32	2,447	40
CUNY, York C.	1,912	0	953	429	109	172	140	0	2	0	107
SUNY, Binghamton U.	130,882	7,724	1,789	15,476	3,211	14,636	11,896	22,172	0	33,595	20,383
SUNY, Buffalo State	2,172	3	1,098	767	139	0	0	90	0	23	52
SUNY, C. Brockport	1,500	8	79	1,120	1	211	0	28	0	0	53
SUNY, C. of Environmental Science and Forestry	32,904	409 i	1,103 i	27,321 i	0 i	561 i	1,793 i	98 i	30 i	1,291 i	298 i
SUNY, C. of Optometry	4,497	0	0	4,497	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	1,043	0	905	112	0	26	0	0	0	0	0
SUNY, Cobleskill	1,211	0	0	0	0	0	0	0	0	1,211	0
SUNY, Downstate Health Sciences U.	30,918	0	0	30,918	0	0	0	0	0	0	0
SUNY, Geneseo	2,091	0	82	152	16	1,234	311	64	0	0	232

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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, Oswego	1,209	38	64	194	0	450	43	56	340	0	24
SUNY, Polytechnic Institute	413,763	0	0	1,673	0	0	0	0	0	411,929	161
SUNY, Stony Brook U.	312,698	12,929	33,444	139,641	6,847	45,541	6,579	2,472	22,228	38,670	4,347
SUNY, U. Albany	129,796	6,141	15,821	49,048	2,264	7,299	3,901	16,133	0	4,266	24,923
SUNY, U. Buffalo	439,709	20,493	4,848	257,060	1,926	11,990	4,111	6,573	187	109,870	22,651
SUNY, Upstate Medical U.	50,586	0	0	50,586	0	0	0	0	0	0	0
U.S. Military Academy	20,841	6,651	26	132	1,074	185	925	4,806	0	6,640	402
Private	6,503,136	124,909	98,503	4,803,047	42,033	376,012	71,112	131,329	11,269	484,941	359,981
Albany C. of Pharmacy and Health Sciences	2,276	0	0	2,276	0	0	0	0	0	0	0
Albany Medical C.	22,297	0	0	22,297	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	318,314	0	0	318,314	0	0	0	0	0	0	0
Alfred U.	3,477	0	1	0	2	16	0	0	0	3,458	0
Barnard C.	4,988	250	76	1,322	0	1,541	1,030	474	0	0	295
Canisius C.	1,160	0	0	0	0	159	0	0	1,001	0	0
Clarkson U.	21,703	531	112	1,339	784	3,918	89	146	0	12,446	2,338
Cold Spring Harbor Laboratory	118,034	0	0	118,034	0	0	0	0	0	0	0
Colgate U.	4,343	101	728	676	153	1,215	112	406	0	0	952
Columbia U. in the City of New York	1,230,924	31,786	79,949	893,199	4,427	52,767	5,168	13,157	0	87,884	62,587
Cornell U.	1,300,357	29,874	6,463	929,175	3,287	120,697	11,971	23,814	0	125,320	49,756
Fordham U.	20,432	511	0	1,213	212	1,532	2,567	1,519	0	0	12,878
Hamilton C.	1,879	3	52	116	4	127	132	337	44	0	1,064
Hobart and William Smith Colleges	3,228	13	288	2,357	90	300	5	21	10	0	144
Hofstra U.	6,939	166	410	1,232	286	711	107	525	0	521	2,981
Icahn School of Medicine at Mount Sinai	893,968	0	0	893,968	0	0	0	0	0	0	0
Ithaca C.	1,000	57	80	303	122	291	2	54	0	0	91
Long Island U.	17,183	142	372	10,025	414	767	1,119	838	1	0	3,505
Manhattan C.	1,641	0	0	37	242	140	0	0	0	899	323
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	4,954	0	0	4,954	0	0	0	0	0	0	0
New School	19,218	3	192	675	20	10	1,041	6,743	608	3,301	6,625
New York Institute of Technology	5,555	323	0	3,871	0	101	0	1	0	1,181	78
New York Medical C.	16,461	0	0	16,461	0	0	0	0	0	0	0
New York U.	1,276,038	14,731	800	909,144	20,916	26,391	30,932	38,528	321	119,160	115,115

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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
Pace U.	3,524	903	0	607	0	100	5	10	0	529	1,370
Pratt Institute	2,325	0	0	0	0	0	0	0	0	0	2,325
Rensselaer Polytechnic Institute	121,809	14,752	2,214	8,885	3,658	15,894	3,954	1,829	0	63,146	7,477
Rochester Institute of Technology	62,383	9,956	0	1,657	2,356	14,979	159	2,590	0	22,869	7,817
Rockefeller U.	360,877	8,486	800	344,493	1,405	5,693	0	0	0	0	0
Skidmore C.	1,734	18	547	329	26	433	197	55	0	0	129
St. John's U., New York	3,592	160	0	2,213	0	510	357	5	0	0	347
Syracuse U.	157,407	4,858	2,463	11,393	2,279	14,286	3,719	19,097	146	21,602	77,564
Teachers C., Columbia U.	30,978	3,235	0	6,007	0	0	1,729	19,950	0	0	57
U. Rochester	450,805	3,099	2,724	291,673	175	112,275	6,367	634	9,138	22,179	2,541
Union C., Schenectady	1,479	69	181	143	64	244	38	124	0	446	170
Vassar C.	2,580	133	51	918	95	233	312	472	0	0	366
Yeshiva U.	7,274	749	0	3,741	1,016	682	0	0	0	0	1,086
North Carolina	3,870,874	83,472	76,415	2,807,847	35,615	123,620	67,354	139,509	28,049	356,238	152,755
Public	2,203,957	74,359	68,237	1,378,021	25,886	97,763	58,155	95,630	27,751	251,993	126,162
Appalachian State U.	7,189	327	987	3,066	22	1,013	244	405	0	237	888
East Carolina U.	55,693	484	4,751	34,271	439	1,740	1,336	1,226	0	2,737	8,709
Elizabeth City State U.	1,934	585	0	802	0	0	0	3	0	0	544
Fayetteville State U.	3,206	472	0	784	0	165	0	155	42	127	1,461
North Carolina A&T State U.	47,908	1,008	0	19,160	863	2,053	156	0	0	18,186	6,482
North Carolina Central U.	16,600	138	234	6,414	0	4,976	0	319	259	2,074	2,186
North Carolina State U.	583,203	20,889	30,854	262,669	17,531	27,486	1,739	9,396	26,024	171,162	15,453
U. North Carolina, Asheville	5,973	289	96	1,605	22	718	0	354	648	0	2,241
U. North Carolina, Chapel Hill	1,361,028	39,486	23,339	1,020,666	5,464	49,368	49,297	77,515	234	39,242	56,417
U. North Carolina, Charlotte	43,126	8,681	1,077	5,643	803	3,345	1,100	2,519	0	15,096	4,862
U. North Carolina, general administration	3,522	903	0	250	0	0	0	0	0	2,232	137
U. North Carolina, Greensboro	41,303	398	135	11,226	609	5,251	3,551	1,033	0	0	19,100
U. North Carolina, Wilmington	20,053	280	6,351	7,428	51	675	223	1,683	406	537	2,419
Western Carolina U.	2,783	0	313	1,326	0	9	0	267	0	363	505
Winston-Salem State U.	10,436	419	100	2,711	82	964	509	755	138	0	4,758
Private	1,666,917	9,113	8,178	1,429,826	9,729	25,857	9,199	43,879	298	104,245	26,593
Davidson C.	2,788	179	0	787	86	531	482	523	0	0	200
Duke U.	1,390,538	8,320	8,178	1,174,640	9,125	23,281	7,467	40,627	284	102,748	15,868



TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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
Elon U.	1,797	25	0	287	135	45	215	193	14	18	865
Johnson C. Smith U.	2,685	188	0	146	2	4	0	2	0	52	2,291
Wake Forest U.	269,109	401	0	253,966	381	1,996	1,035	2,534	0	1,427	7,369
North Dakota	322,621	5,223	7,678	150,091	1,705	13,003	4,036	9,474	6,239	104,801	20,371
Public	322,621	5,223	7,678	150,091	1,705	13,003	4,036	9,474	6,239	104,801	20,371
North Dakota State U.	174,904	2,957	804	115,027	1,357	9,362	2,354	7,856	6,064	20,187	8,936
U. North Dakota	147,717	2,266	6,874	35,064	348	3,641	1,682	1,618	175	84,614	11,435
Ohio	3,079,902	56,020	27,122	1,975,060	11,563	124,682	36,003	55,994	46,124	599,645	147,689
Public	2,396,788	42,288	24,265	1,566,140	10,887	112,201	34,017	54,956	45,896	362,006	144,132
Air Force Institute of Technology	44,391	3,474	1,025	0	164	11,934	0	0	0	27,794	0
Bowling Green State U.	19,342	97	1,679	4,077	348	2,201	1,200	3,623	58	80	5,979
Central State U.	10,274	0	124	8,806	42	954	0	0	34	314	0
Cleveland State U.	81,225	0	0	51,438	521	1,030	751	4,782	214	14,519	7,970
Kent State U.	52,175	1,619	1,088	10,845	1,824	8,065	4,245	5,668	1,239	1,847	15,735
Miami U.	28,799	462	829	9,782	346	2,701	3,279	782	0	4,474	6,144
Northeast Ohio Medical U.	13,465	0	6	13,150	0	0	0	278	28	3	0
Ohio State U.	1,363,388	27,225	9,228	897,954	5,660	47,143	10,892	28,605	43,348	219,388	73,945
Ohio U.	52,465	89	2,847	17,612	38	5,892	2,551	1,245	0	17,216	4,975
U. Akron	19,943	44	659	1,587	191	8,690	581	139	0	7,558	494
U. Cincinnati	615,070	3,655	993	508,639	1,549	10,335	8,721	9,610	863	46,955	23,750
U. Toledo	64,654	127	5,367	30,176	38	11,637	344	174	0	11,957	4,834
Wright State U.	27,440	5,329	418	11,782	92	1,253	1,388	0	112	6,843	223
Youngstown State U.	4,157	167	2	292	74	366	65	50	0	3,058	83
Private	683,114	13,732	2,857	408,920	676	12,481	1,986	1,038	228	237,639	3,557
C. Wooster	1,717	16	188	429	93	549	1	167	0	0	274
Case Western Reserve U.	467,389	3,165	634	406,880	520	10,694	1,539	790	228	41,783	1,156
Heidelberg U.	1,184	0	1,184	0	0	0	0	0	0	0	0
Kenyon C.	1,330	0	0	788	45	362	32	34	0	0	69
U. Dayton	211,494	10,551	851	823	18	876	414	47	0	195,856	2,058
Oklahoma	650,977	13,927	92,931	273,554	6,785	28,758	12,113	24,340	9,766	92,794	96,009
Public	633,561	10,078	92,739	272,546	6,779	28,040	11,434	24,053	9,603	83,240	95,049
Langston U.	6,481	0	0	6,074	2	53	119	0	0	0	233
Oklahoma State U., Center for Health Sciences	8,368	104	0	7,092	0	0	1,111	0	0	0	61

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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
Oklahoma State U., Stillwater	195,041	3,099	3,663	77,513	4,176	8,685	6,977	9,806	9,603	36,217	35,302
U. Central Oklahoma	7,070 i	238 i	0 i	3,393 i	106 i	572 i	133 i	342 i	0 i	928 i	1,358 i
U. Oklahoma, Norman and Health Science Center	408,656	6,637	89,076	176,123	2,495	18,730	3,077	13,702	0	44,727	54,089
U. Oklahoma, Tulsa	7,945	0	0	2,351	0	0	17	203	0	1,368	4,006
Private	17,416	3,849	192	1,008	6	718	679	287	163	9,554	960
U. Tulsa	17,416	3,849	192	1,008	6	718	679	287	163	9,554	960
Oregon	1,001,028	14,334	55,431	718,647	4,320	25,734	26,676	15,913	5,889	83,065	51,019
Public	984,229	14,099	55,090	710,830	4,142	24,022	26,373	14,980	5,813	83,065	45,815
Oregon Health and Science U.	479,226	0	0	463,631	0	0	2,090	0	0	13,373	132
Oregon Institute of Technology	5,086 i	160 i	387 i	3,404 i	100 i	0 i	133 i	0 i	0 i	902 i	0 i
Oregon State U.	297,934	5,820	46,982	162,192	1,601	6,297	1,024	6,357	3,181	58,552	5,928
Portland State U.	41,483	1,521	1,826	14,531	1,192	2,410	1,497	3,900	558	5,582	8,466
U. Oregon	160,500	6,598	5,895	67,072	1,249	15,315	21,629	4,723	2,074	4,656	31,289
Private	16,799	235	341	7,817	178	1,712	303	933	76	0	5,204
Lewis and Clark C.	2,566	13	222	545	0	246	15	77	0	0	1,448
Pacific U.	6,128	66	0	3,813	22	467	4	342	0	0	1,414
Reed C.	5,922 i	151 i	0 i	2,626 i	136 i	860 i	238 i	514 i	0 i	0 i	1,397 i
Willamette U.	2,183	5	119	833	20	139	46	0	76	0	945
Pennsylvania	5,454,961	349,356	56,273	3,461,285	49,986	233,519	94,498	132,696	26,487	786,311	264,550
Public	2,601,766	97,881	50,443	1,631,792	24,400	123,149	61,133	60,012	15,430	462,387	75,139
East Stroudsburg U. Pennsylvania	1,410	15	0	828	8	7	0	2	0	0	550
Indiana U. Pennsylvania	6,313	113	234	1,747	17	456	728	579	196	0	2,243
Pennsylvania State U., Behrend	6,384	47	1,727	1,484	41	521	206	80	0	1,799	479
Pennsylvania State U., Harrisburg	2,927	8	6	1,433	7	8	66	144	0	160	1,095
Pennsylvania State U., University Park and Hershey Medical Center	1,019,940	79,162	35,715	319,598	17,140	73,580	30,225	41,275	0	385,594	37,651
Temple U.	301,395	6,734	1,498	223,126	3,063	17,215	13,248	7,110	591	8,898	19,912
U. Pittsburgh, Pittsburgh	1,251,998	11,763	11,232	1,082,521	4,042	30,591	16,203	4,587	14,631	65,936	10,492
U.S. Army War C.	5,496 i	0 i	0 i	0 i	0 i	0 i	0 i	5,496 i	0 i	0 i	0 i
West Chester U. Pennsylvania	5,903	39	31	1,055	82	771	457	739	12	0	2,717
Private	2,853,195	251,475	5,830	1,829,493	25,586	110,370	33,365	72,684	11,057	323,924	189,411
Bryn Mawr C.	9,123	335	189	1,259	545	1,254	508	1,449	0	0	3,584
Bucknell U.	5,259	113	40	1,255	169	1,038	83	322	265	1,589	385

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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
Carnegie Mellon U.	449,707	211,839	736	15,109	14,435	23,841	10,640	12,720	5,264	138,117	17,006
Drexel U.	151,903	6,589	0	87,434	729	2,306	3,077	1,870	1,890	38,649	9,359
Duquesne U.	13,944	0	886	8,351	57	629	245	145	0	66	3,565
Franklin and Marshall C.	4,440	33	305	1,001	30	835	154	441	30	0	1,611
Haverford C.	4,487	47	115	1,153	51	2,231	162	202	0	0	526
Lafayette C.	2,059	35	13	649	41	483	81	117	0	384	256
Lehigh U.	51,769	2,373	1,124	9,078	289	5,157	911	439	43	28,948	3,407
Mercyhurst U.	661	0	1	40	0	27	2	380	45	0	166
Philadelphia C. of Osteopathic Medicine	6,667	0	0	6,667	0	0	0	0	0	0	0
Robert Morris U.	1,000	41	0	704	11	0	11	35	0	144	54
Saint Joseph's U.	9,041	126	0	5,199	15	1,397	295	277	0	0	1,732
Swarthmore C.	4,225	71	0	1,295	174	779	130	219	0	215	1,342
Thomas Jefferson U.	321,644	0	0	321,561	0	0	0	0	0	77	6
U. Pennsylvania	1,791,311	29,513	1,856	1,364,745	8,921	67,341	16,035	53,759	3,520	106,282	139,339
Villanova U.	25,955	360	565	3,993	119	3,052	1,031	309	0	9,453	7,073
Rhode Island	458,694	17,748	65,136	180,930	14,837	22,906	12,405	43,391	18,030	41,721	41,590
Public	145,758	828	54,685	30,304	0	4,560	3,746	3,688	7,743	11,931	28,273
Naval War C.	5,529	0	0	0	0	0	0	929	0	0	4,600
Rhode Island C.	11,127	85	0	634	0	441	194	13	0	0	9,760
U. Rhode Island	129,102	743	54,685	29,670	0	4,119	3,552	2,746	7,743	11,931	13,913
Private	312,936	16,920	10,451	150,626	14,837	18,346	8,659	39,703	10,287	29,790	13,317
Brown U.	310,780	16,895	9,945	149,795	14,835	18,299	8,605	39,703	10,284	29,569	12,850
Roger Williams U.	2,156	25	506	831	2	47	54	0	3	221	467
South Carolina	805,510	16,936	12,492	461,366	6,123	20,832	13,634	27,441	52	136,004	110,630
Public	801,681	16,521	12,255	459,940	6,099	19,417	13,497	27,362	52	135,941	110,597
C. Charleston	6,421	300	2,470	1,536	31	518	129	87	0	158	1,192
Citadel Military C. South Carolina	4,374	2,615	0	225	28	184	66	25	0	363	868
Clemson U.	263,158	8,664	0	72,699	1,919	11,923	3,225	6,858	0	98,733	59,137
Coastal Carolina U.	3,724	133	1,573	497	0	209	66	284	18	175	769
Medical U. South Carolina	284,553	0	0	284,553	0	0	0	0	0	0	0
South Carolina State U.	4,270	117	0	1,537	0	1,086	0	0	0	773	757
U. South Carolina, Aiken	2,595	0	0	1,165	12	292	11	245	0	231	639
U. South Carolina, Columbia	229,162	4,628	8,202	97,376	4,101	4,761	9,997	19,583	34	35,508	44,972

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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
Winthrop U.	3,424	64	10	352	8	444	3	280	0	0	2,263
Private	3,829	415	237	1,426	24	1,415	137	79	0	63	33
Clafin U.	1,179	387	105	458	0	102	0	64	0	63	0
Furman U.	2,650	28	132	968	24	1,313	137	15	0	0	33
South Dakota	117,368	5,468	968	64,345	790	9,022	1,714	2,484	188	27,586	4,803
Public	116,644	5,468	968	63,942	790	8,716	1,714	2,484	188	27,586	4,788
Black Hills State U.	1,987	385	0	1,421	0	101	0	0	0	0	80
Dakota State U.	4,684	4,589	15	65	0	15	0	0	0	0	0
South Dakota School of Mines and Technology	20,061	0	0	0	16	2,883	0	0	0	17,162	0
South Dakota State U.	59,590	44	953	44,606	657	1,610	426	1,791	0	8,977	526
U. South Dakota	30,322	450	0	17,850	117	4,107	1,288	693	188	1,447	4,182
Private	724	0	0	403	0	306	0	0	0	0	15
Augustana U.	724	0	0	403	0	306	0	0	0	0	15
Tennessee	1,715,468	38,481	9,660	1,139,048	7,563	60,394	28,529	43,434	29,183	219,926	139,250
Public	607,285	23,368	7,923	273,259	5,975	29,531	13,103	21,833	29,183	141,382	61,728
Austin Peay State U.	3,149	3	635	1,657	0	89	1	0	6	0	758
East Tennessee State U.	23,420	0	18	21,542	185	464	97	120	0	27	967
Middle Tennessee State U.	22,631	1,050	229	4,950	1,243	2,115	728	3,527	0	889	7,900
Tennessee State U.	18,012	384	120	16,043	0	0	0	0	0	1,278	187
Tennessee Technological U.	16,398	3,541	14	3,456	0	672	77	52	0	7,436	1,150
U. Memphis	71,271	6,795	4,298	10,731	1,138	3,012	6,817	8,068	1,554	11,825	17,033
U. Tennessee, Chattanooga	12,808	830	0	994	365	40	406	253	3,803	3,823	2,294
U. Tennessee, Health Science Center	115,161	0	0	113,398	0	0	0	0	1,123	640	0
U. Tennessee, Knoxville	324,435	10,765	2,609	100,488	3,044	23,139	4,977	9,813	22,697	115,464	31,439
Private	1,108,183	15,113	1,737	865,789	1,588	30,863	15,426	21,601	0	78,544	77,522
Fisk U.	4,000	431	0	1,289	167	1,926	54	0	0	10	123
Meharry Medical C.	17,960	65	0	17,895	0	0	0	0	0	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	1,086,223	14,617	1,737	846,605	1,421	28,937	15,372	21,601	0	78,534	77,399
Texas	7,440,455	217,550	254,064	4,515,907	80,059	391,134	99,628	159,855	46,403	1,207,515	468,340
Public	6,239,913	203,054	240,300	3,651,766	69,214	329,889	87,215	129,794	26,476	1,079,968	422,237
Lamar U.	5,304	154	0	248	0	124	0	160	0	3,536	1,082
Prairie View A&M U.	20,429	134	0	9,381	5	2,139	33	247	117	5,305	3,068
Sam Houston State U.	12,009	8	196	3,358	413	308	469	2,785	0	253	4,219

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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
Stephen F. Austin State U.	3,184	3	62	1,773	241	114	2	212	0	0	777
Sul Ross State U.	2,526	92	168	1,303	40	219	51	132	0	0	521
Tarleton State U.	20,056	763	2,594	9,239	376	503	475	1,033	1,126	685	3,262
Texas A&M International U.	4,486	1	53	531	101	275	17	743	853	127	1,785
Texas A&M U., College Station and Health Science Center	1,152,666	25,705	122,622	435,563	6,898	56,540	7,635	29,994	8,415	402,999	56,295
Texas A&M U.-Commerce	4,955	141	0	2,119	9	1,028	183	46	0	48	1,381
Texas A&M U.-Corpus Christi	36,014	355	14,478	5,184	19	1,459	4	623	1,132	8,737	4,023
Texas A&M U.-Kingsville	23,451	0	242	17,132	0	323	51	0	66	4,044	1,593
Texas A&M U.-San Antonio	1,242	239	10	348	0	0	3	36	429	104	73
Texas Southern U.	12,120	132	173	8,033	96	1,015	572	531	0	24	1,544
Texas State U.	110,102	1,598	8,853	17,849	1,343	5,123	908	10,265	2,082	9,722	52,359
Texas Tech U.	226,729	5,410	11,018	65,627	3,793	15,739	8,234	12,411	0	46,952	57,545
Texas Tech U., Health Sciences Center	46,574	0	0	44,961	0	0	0	0	0	0	1,613
Texas Tech U., Health Sciences Center, El Paso	14,206	0	0	13,073	0	0	0	0	0	0	1,133
Texas Woman's U.	6,029	3	0	3,015	125	585	618	312	0	0	1,371
U. Houston	240,126	6,539	10,320	40,187	5,858	60,462	17,383	3,842	36	64,026	31,473
U. Houston-Clear Lake	1,800	21	0	1,322	0	123	146	79	0	21	88
U. Houston-Downtown	1,485	135	14	135	2	88	37	66	0	71	937
U. North Texas, Denton	93,538	9,124	687	17,731	0	8,762	3,186	3,953	0	23,078	27,017
U. North Texas, Health Science Center	10,439	0	0	10,439	0	0	0	0	0	0	0
U. Texas Health Science Center, Houston	342,633	0	0	342,633	0	0	0	0	0	0	0
U. Texas Health Science Center, San Antonio	238,510	0	0	238,510	0	0	0	0	0	0	0
U. Texas Health Science Center, Tyler	33,872	0	0	33,872	0	0	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	1,182,536	0	0	1,104,846	20,403	19,651	19,296	18,340	0	0	0
U. Texas Medical Branch	204,518	0	0	202,875	0	0	0	0	0	1,643	0
U. Texas of the Permian Basin	3,577	18	77	887	1	30	70	494	0	797	1,203
U. Texas Rio Grande Valley	64,401	3,543	1,981	26,835	2,731	3,997	1,119	4,604	48	7,844	11,699
U. Texas Southwestern Medical Center	719,002	0	0	719,002	0	0	0	0	0	0	0
U. Texas, Arlington	133,770	8,415	668	20,310	2,443	18,905	1,404	124	0	61,467	20,034
U. Texas, Austin	845,896	100,730	55,612	156,202	18,319	93,232	11,067	22,612	2,548	319,719	65,855
U. Texas, Dallas	130,914	10,179	815	31,502	1,429	16,709	5,601	2,262	930	51,310	10,177
U. Texas, El Paso	130,501	7,833	4,565	30,381	2,413	10,021	4,911	3,365	2,705	40,798	23,509
U. Texas, San Antonio	147,629	21,484	4,787	27,073	2,075	12,128	3,738	10,456	5,839	24,403	35,646

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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. Texas, Tyler	3,246	38	0	2,233	74	29	2	67	0	542	261
West Texas A&M U.	9,438	257	305	6,054	7	258	0	0	150	1,713	694
Private	1,200,542	14,496	13,764	864,141	10,845	61,245	12,413	30,061	19,927	127,547	46,103
Abilene Christian U.	6,310	0	0	185	0	5,831	10	6	12	29	237
Baylor C. of Medicine	827,005	0	0	827,005	0	0	0	0	0	0	0
Baylor U.	66,014	2,382	3,569	13,144	1,451	11,717	4,051	3,244	2,908	9,061	14,487
Rice U.	216,202	11,172	4,738	18,022	6,937	31,638	4,805	21,779	571	110,648	5,892
Southern Methodist U.	57,544	494	4,956	2,765	2,009	5,607	1,276	2,132	10,766	7,313	20,226
St. Edward's U.	3,393	270	0	734	209	571	100	30	0	0	1,479
Texas Christian U.	18,353	106	307	558	189	4,131	1,827	2,551	5,670	88	2,926
Trinity U.	3,657	72	194	756	50	1,272	344	319	0	69	581
U. of the Incarnate Word	2,064	0	0	972	0	478	0	0	0	339	275
Utah	1,062,475	34,333	50,924	450,822	7,877	31,528	12,767	19,315	1,015	326,451	127,443
Public	1,016,865	32,800	50,137	440,782	7,108	24,802	12,367	18,435	1,015	306,852	122,567
U. Utah	670,119	29,132	47,824	379,462	6,083	18,579	6,805	16,524	1,015	47,060	117,635
Utah State U.	344,851	3,545	2,173	60,940	943	5,408	5,562	1,911	0	259,482	4,887
Utah Valley U.	1,895	123	140	380	82	815	0	0	0	310	45
Private	45,610	1,533	787	10,040	769	6,726	400	880	0	19,599	4,876
Brigham Young U., Provo	45,610	1,533	787	10,040	769	6,726	400	880	0	19,599	4,876
Vermont	218,910	3,776	4,791	159,588	3,132	4,918	5,433	8,312	2,755	11,621	14,584
Public	216,307	3,614	4,278	158,896	3,132	4,354	5,186	8,023	2,755	11,621	14,448
U. Vermont	216,307	3,614	4,278	158,896	3,132	4,354	5,186	8,023	2,755	11,621	14,448
Private	2,603	162	513	692	0	564	247	289	0	0	136
Middlebury C.	2,603	162	513	692	0	564	247	289	0	0	136
Virginia	2,117,336	98,097	72,024	1,017,012	22,297	84,686	29,913	112,529	7,795	448,533	224,450
Public	2,094,785	97,008	69,079	1,007,003	22,098	79,883	29,429	111,764	7,795	447,315	223,411
Christopher Newport U.	2,762	0	0	625	225	851	44	195	0	437	385
Eastern Virginia Medical School	22,165	0	0	22,165	0	0	0	0	0	0	0
George Mason U.	230,068	25,373	14,205	30,410	3,606	6,154	3,809	61,667	51	57,196	27,597
James Madison U.	17,021	961	870	4,434	335	2,256	1,156	225	0	808	5,976
Norfolk State U.	3,593	344	0	148	35	1,051	0	0	0	1,656	359
Old Dominion U.	64,877	2,672	3,787	12,010	857	8,410	1,526	2,345	0	28,288	4,982
U. of Mary Washington	1,229	20	57	190	0	117	0	39	0	0	806

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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. Virginia's C. Wise	2,628	455	0	116	0	44	0	95	0	197	1,721
U. Virginia, Charlottesville	662,658	27,291	6,392	432,700	2,552	27,721	6,549	17,920	5,596	65,604	70,333
Virginia Commonwealth U.	405,898	7,073	269	269,742	931	3,282	10,807	4,628	0	30,592	78,574
Virginia Military Institute	1,746	1,304	0	83	39	112	0	29	0	119	60
Virginia Polytechnic Institute and State U.	591,861	28,642	4,652	223,775	12,917	23,394	5,111	14,507	72	260,158	18,633
Virginia State U.	12,326	0	37	7,493	206	80	76	0	0	2,260	2,174
William & Mary	75,953	2,873	38,810	3,112	395	6,411	351	10,114	2,076	0	11,811
Private	22,551	1,089	2,945	10,009	199	4,803	484	765	0	1,218	1,039
Edward Via C. of Osteopathic Medicine	7,121	0	0	7,121	0	0	0	0	0	0	0
Hampton U.	11,462	720	2,576	1,659	163	4,282	0	434	0	1,215	413
Marymount U.	1,298	350	0	394	0	2	46	200	0	3	303
U. Richmond	2,670	19	369	835	36	519	438	131	0	0	323
Washington	1,972,326	36,154	171,777	1,261,338	8,461	93,498	15,953	32,684	4,776	219,169	128,516
Public	1,968,111	36,039	171,614	1,259,954	8,304	92,578	15,871	32,475	4,776	219,031	127,469
Central Washington U.	3,176	406	1,394	437	196	541	0	128	0	32	42
Eastern Washington U.	2,437	0	17	410	2	125	87	1,789	0	0	7
Northwest Indian C.	5,632	0	60	504	0	0	0	0	0	227	4,841
U. Washington, Bothell	8,197	537	351	784	33	1,194	0	68	12	387	4,831
U. Washington, Seattle	1,559,708	25,836	152,187	1,045,014	7,095	62,596	10,431	16,490	15	172,004	68,040
U. Washington, Tacoma	5,484	421	3,535	463	137	0	0	97	19	250	562
Washington State U.	368,396	8,523	10,772	211,742	509	25,553	3,860	12,699	3,333	45,571	45,834
Western Washington U.	15,081	316	3,298	600	332	2,569	1,493	1,204	1,397	560	3,312
Private	4,215	115	163	1,384	157	920	82	209	0	138	1,047
Seattle U.	1,894	93	0	281	153	311	0	103	0	137	816
U. Puget Sound	1,051	0	42	778	4	123	5	36	0	1	62
Whitman C.	1,270	22	121	325	0	486	77	70	0	0	169
West Virginia	248,022	1,765	5,416	161,470	432	14,291	1,658	3,216	1,756	47,305	10,713
Public	247,805	1,765	5,416	161,253	432	14,291	1,658	3,216	1,756	47,305	10,713
Marshall U.	25,692	201	239	17,965	0	1,224	20	0	0	3,333	2,710
West Virginia School of Osteopathic Medicine	1,329	0	0	1,327	0	0	0	0	0	0	2
West Virginia State U.	6,703	2	0	6,701	0	0	0	0	0	0	0
West Virginia U.	214,081	1,562	5,177	135,260	432	13,067	1,638	3,216	1,756	43,972	8,001
Private	217	0	0	217	0	0	0	0	0	0	0

TABLE 71

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2022

(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. Charleston	217	0	0	217	0	0	0	0	0	0	0
Wisconsin	1,966,266	32,661	77,987	1,301,681	8,080	111,825	15,960	74,486	50,664	179,666	113,256
Public	1,599,312	30,915	77,897	973,455	7,144	109,286	14,897	73,529	50,664	158,290	103,235
U. Wisconsin-Eau Claire	1,628	46	135	138	11	954	293	17	0	0	34
U. Wisconsin-Green Bay	2,713	77	114	1,543	21	156	43	97	0	465	197
U. Wisconsin-La Crosse	2,942	76	35	897	59	299	16	1,383	13	0	164
U. Wisconsin-Madison	1,523,513	30,295	68,178	952,068	7,005	97,161	10,208	65,924	48,230	148,673	95,771
U. Wisconsin-Milwaukee	56,822	376	9,026	10,207	25	10,084	4,294	5,843	2,404	8,246	6,317
U. Wisconsin-Oshkosh	1,990	1	43	640	0	398	20	93	0	294	501
U. Wisconsin-Platteville	1,349	44	0	605	23	98	23	109	17	204	226
U. Wisconsin-Stevens Point	3,740	0	338	3,144	0	136	0	0	0	111	11
U. Wisconsin-Superior	4,615	0	28	4,213	0	0	0	63	0	297	14
Private	366,954	1,746	90	328,226	936	2,539	1,063	957	0	21,376	10,021
Marquette U.	40,638	1,681	0	13,619	892	2,539	991	871	0	10,278	9,767
Medical C. Wisconsin	321,506	0	0	313,888	0	0	0	0	0	7,618	0
Milwaukee School of Engineering	3,545	65	0	0	0	0	0	0	0	3,480	0
Northland C.	1,265	0	90	719	44	0	72	86	0	0	254
Wyoming	139,764	2,220	19,400	52,377	1,661	2,625	883	5,421	19,572	28,379	7,226
Public	139,764	2,220	19,400	52,377	1,661	2,625	883	5,421	19,572	28,379	7,226
U. Wyoming	139,764	2,220	19,400	52,377	1,661	2,625	883	5,421	19,572	28,379	7,226
Guam	20,481	0	6,937	12,397	63	131	0	174	0	6	773
Public	20,481	0	6,937	12,397	63	131	0	174	0	6	773
U. Guam	20,481	0	6,937	12,397	63	131	0	174	0	6	773
Puerto Rico	103,245	863	7,069	56,826	308	8,432	390	1,798	5,531	13,613	8,415
Public	96,773	863	7,069	51,499	308	8,399	390	1,798	5,530	12,617	8,300
U. Puerto Rico, Cayey	1,390	0	0	30	0	61	55	4	1,224	0	16
U. Puerto Rico, Humacao	1,448	0	92	1	0	1,302	53	0	0	0	0
U. Puerto Rico, Mayaguez	18,274	254	4,127	654	74	1,580	219	524	0	8,482	2,360
U. Puerto Rico, Medical Sciences Campus	47,578	0	264	47,314	0	0	0	0	0	0	0
U. Puerto Rico, Rio Piedras	28,083	609	2,586	3,500	234	5,456	63	1,270	4,306	4,135	5,924
Private	6,472	0	0	5,327	0	33	0	0	1	996	115
U. Ana G. Mendez, Gurabo	1,419	0	0	274	0	33	0	0	1	996	115
U. Central del Caribe	5,053	0	0	5,053	0	0	0	0	0	0	0



TABLE 71

**Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2022**

(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
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&amp;E = science and engineering.

<sup>a</sup> 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.

<sup>b</sup> 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.

<sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>d</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,056,063 thousand in total R&D expenditures in FY 2022.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2022.