

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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	89,723,447	2,951,923	3,295,883	52,364,596	772,935	5,740,630	1,326,030	2,842,033	1,022,500	14,293,487	5,113,430
Public	58,667,378	1,745,125	2,603,049	32,705,100	456,440	3,554,573	990,639	1,910,306	825,708	10,119,360	3,757,078
Private	31,056,069	1,206,798	692,834	19,659,496	316,495	2,186,057	335,391	931,727	196,792	4,174,127	1,356,352
Alabama	1,272,489	72,739	31,203	747,632	7,120	50,685	15,182	23,557	2,093	237,714	84,564
Public	1,251,134	72,276	31,203	739,496	5,974	50,516	15,182	17,729	2,008	232,186	84,564
Alabama A&M U.	9,065 i	307 i	0 i	5,357 i	74 i	627 i	171 i	283 i	0 i	1,714 i	532 i
Alabama State U.	2,631	0	0	2,265	0	0	0	0	0	366	0
Auburn U., Auburn	266,374	5,127	4,008	111,491	3,471	15,214	3,137	6,228	1,998	78,720	36,980
Jacksonville State U.	275	0	0	61	0	0	0	0	0	6	208
Troy U.	1,548	0	31	250	0	1,102	1	10	0	0	154
U. Alabama, Birmingham	644,330	1,356	436	571,525	383	9,885	5,695	317	10	46,844	7,879
U. Alabama, Huntsville	149,792	48,967	17,960	2,620	709	15,071	233	820	0	55,510	7,902
U. Alabama, Tuscaloosa	129,509	12,797	4,302	14,565	1,174	7,991	5,384	9,556	0	43,941	29,799
U. South Alabama	47,610	3,722	4,466	31,362	163	626	561	515	0	5,085	1,110
Private	21,355	463	0	8,136	1,146	169	0	5,828	85	5,528	0
Tuskegee U.	21,355	463	0	8,136	1,146	169	0	5,828	85	5,528	0
Alaska	196,501	1,282	102,679	46,675	191	17,668	277	4,277	1,682	18,992	2,778
Public	195,465	1,282	101,674	46,646	191	17,668	277	4,277	1,682	18,992	2,776
U. Alaska, Anchorage	21,332	166	5,735	8,381	0	1,160	277	3,020	177	1,674	742
U. Alaska, Fairbanks	172,957	1,116	95,711	37,477	191	16,441	0	1,248	1,425	17,314	2,034
U. Alaska, Southeast	1,176	0	228	788	0	67	0	9	80	4	0
Private	1,036	0	1,005	29	0	0	0	0	0	0	2
Alaska Pacific U.	1,036	0	1,005	29	0	0	0	0	0	0	2
Arizona	1,516,463	43,038	106,994	600,456	7,468	175,517	19,274	92,000	135,609	224,229	111,878
Public	1,516,463	43,038	106,994	600,456	7,468	175,517	19,274	92,000	135,609	224,229	111,878
Arizona State U.	677,303	22,498	68,116	111,790	4,121	26,742	14,623	73,205	128,982	145,574	81,652
Northern Arizona U.	69,129	4,037	6,790	41,082	0	8,120	396	167	469	6,497	1,571
U. Arizona	770,031	16,503	32,088	447,584	3,347	140,655	4,255	18,628	6,158	72,158	28,655
Arkansas	387,674	9,903	5,708	290,258	101	11,204	1,143	4,574	1,006	39,011	24,766
Public	387,674	9,903	5,708	290,258	101	11,204	1,143	4,574	1,006	39,011	24,766
Arkansas State U., Jonesboro	8,422	239	0	6,436	3	665	62	267	323	384	43

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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	194,709	0	0	194,709	0	0	0	0	0	0	0
U. Arkansas, Fayetteville	164,443	5,882	5,686	79,509	60	8,111	994	4,212	0	37,818	22,171
U. Arkansas, Little Rock	7,397	3,312	0	1,997	0	685	0	93	0	809	501
U. Arkansas, Pine Bluff	8,713	0	0	6,852	3	1,175	0	0	683	0	0
U. Central Arkansas	3,990	470	22	755	35	568	87	2	0	0	2,051
California	11,229,857	298,109	481,349	7,138,953	70,097	947,704	154,974	353,563	169,001	1,171,790	444,317
Public	7,945,304	143,466	399,800	4,993,881	59,882	609,331	122,808	241,527	168,102	901,306	305,201
California Polytechnic State U., San Luis Obispo	25,953	679	1,106	6,526	2,668	4,953	157	930	0	5,522	3,412
California State Polytechnic U., Pomona	7,011	360	151	3,557	20	1,150	19	9	96	1,516	133
California State U., Bakersfield	6,253	0	134	197	2,321	447	524	146	0	839	1,645
California State U., Channel Islands	2,341	22	0	1,001	348	301	4	22	485	79	79
California State U., Chico	4,209	0	426	1,522	41	172	0	237	0	1,236	575
California State U., Dominguez Hills	2,690	620	8	140	125	418	360	314	0	0	705
California State U., East Bay	20,108	264	1,493	1,762	482	2,441	465	3,331	29	1,024	8,817
California State U., Fresno	9,213	141	379	4,197	490	1,307	116	165	199	1,290	929
California State U., Fullerton	9,006	200	229	2,507	212	1,343	272	342	597	661	2,643
California State U., Long Beach	15,134	271	226	3,700	446	2,723	1,431	645	194	4,574	924
California State U., Los Angeles	9,382	218	23	740	26	5,165	103	1,131	0	1,486	490
California State U., Maritime Academy	2,799	0	0	0	0	0	0	0	0	2,603	196
California State U., Monterey Bay	6,882	1,298	1,953	3,452	12	57	0	47	25	0	38
California State U., Northridge	16,573	380	731	4,020	685	7,447	255	393	93	1,216	1,353

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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
California State U., Sacramento	23,699	340	752	1,446	116	238	330	6,544	4,320	5,986	3,627
California State U., San Bernardino	11,607	228	51	1,016	466	1,992	2,299	208	357	1,382	3,608
California State U., San Marcos	10,213	620	13	1,120	0	1,063	1,150	680	2,892	1,682	993
California State U., Stanislaus	2,085	186	13	1,232	253	84	218	70	0	0	29
Humboldt State U.	14,103	85	1,141	5,303	8	90	4	1,385	69	5,564	454
Naval Postgraduate School	65,101	6,058	6,591	1,537	2,435	5,927	151	6,669	4,618	24,254	6,861
San Diego State U.	107,681	1,439	2,158	31,479	3,883	6,681	18,729	4,876	6,322	10,715	21,399
San Francisco State U.	35,768	1,579	3,975	13,143	1,326	3,418	1,617	3,892	1,546	2,386	2,886
San Jose State U.	60,100	297	14,857	3,655	751	3,437	18,930	2,940	0	3,664	11,569
Sonoma State U.	2,957	12	1,617	585	235	289	58	51	30	1	79
U. California, Berkeley	846,872	9,583	7,857	264,394	8,067	156,896	16,892	56,908	74,539	199,711	52,025
U. California, Davis	817,409	5,934	30,603	590,027	4,698	27,906	3,177	30,951	9,720	102,370	12,023
U. California, Irvine	523,752	23,444	13,034	315,900	6,314	38,794	10,898	12,606	1,036	65,454	36,272
U. California, Los Angeles	1,454,880	16,186	41,818	1,053,540	12,110	56,624	17,464	62,413	42,390	93,906	58,429
U. California, Merced	45,964	1,134	3,849	9,742	2,139	5,753	424	1,816	1,156	13,854	6,097
U. California, Office of the President	50,848	0	0	42,520	0	7,905	0	0	37	0	386
U. California, Riverside	189,600	8,295	10,303	98,539	1,994	17,559	3,791	5,224	2,821	34,888	6,186
U. California, San Diego	1,425,499	46,962	185,870	827,370	5,639	86,893	18,645	22,940	13,214	177,564	40,402
U. California, San Francisco	1,710,036	0	0	1,639,862	0	69,817	0	0	357	0	0
U. California, Santa Barbara	248,961	11,503	37,222	29,848	1,416	54,435	3,457	8,231	385	86,303	16,161
U. California, Santa Cruz	160,615	5,128	31,217	28,302	156	35,606	868	5,411	575	49,576	3,776
Private	3,284,553	154,643	81,549	2,145,072	10,215	338,373	32,166	112,036	899	270,484	139,116
Azusa Pacific U.	5,318	92	0	1,022	125	207	844	171	0	5	2,852
Biola U.	1,243	48	0	811	13	85	13	40	8	167	58
California Institute of Technology	438,624	13,508	43,295	100,754	1,039	212,265	0	0	0	51,630	16,133

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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
Chapman U.	25,820	701	304	9,497	16	1,314	1,161	3,253	0	348	9,226
Charles R. Drew U. of Medicine and Science	13,228	0	0	13,228	0	0	0	0	0	0	0
Claremont Graduate U.	7,235	55	0	0	111	0	300	2,815	0	0	3,954
Claremont McKenna C.	4,515	0	17	274	103	136	113	3,532	29	0	311
Fielding Graduate U.	843	0	0	0	0	0	0	843	0	0	0
Harvey Mudd C.	2,359	645	0	364	111	531	0	0	162	515	31
High Tech High Graduate School of Ed.	5,032	0	0	0	0	0	0	0	0	0	5,032
Keck Graduate Institute	2,254	0	0	1,765	0	0	0	0	0	356	133
La Sierra U.	1,517	0	0	5	0	1	0	0	0	0	1,511
Loma Linda U.	14,029	0	0	13,191	0	0	597	0	0	0	241
Loyola Marymount U.	12,819	58	527	819	134	269	1,604	1,724	67	234	7,383
Marshall B. Ketchum U.	1,351	0	0	1,351	0	0	0	0	0	0	0
Mills C.	850	0	0	129	38	0	0	0	0	0	683
Occidental C.	3,587	280	1,201	503	97	762	393	287	0	0	64
Pepperdine U.	2,655	0	0	564	26	111	248	503	112	0	1,091
Pomona C.	2,146	272	193	288	162	347	286	330	0	0	268
Santa Clara U.	3,142	0	0	545	39	516	0	102	0	1,588	352
Scripps Research Institute	485,435	0	0	485,435	0	0	0	0	0	0	0
Stanford U.	1,274,483	23,232	21,216	905,150	6,070	98,672	16,587	22,559	272	136,251	44,474
Touro U.	3,489	0	0	3,475	0	0	0	0	0	0	14
U. of the Pacific	1,371	0	43	870	0	223	6	0	0	228	1
U. San Diego	7,580	42	226	111	643	1,377	149	209	37	980	3,806
U. San Francisco	1,375	16	204	398	16	144	28	148	50	3	368
U. Southern California	955,565	115,694	14,323	598,925	1,472	21,413	9,837	75,520	162	78,179	40,040
Western U. of Health Sciences	6,688	0	0	5,598	0	0	0	0	0	0	1,090
Colorado	1,746,975	26,785	185,787	918,910	7,897	154,232	25,613	30,311	8,312	312,401	76,727
Public	1,702,757	26,763	185,621	913,303	7,799	150,101	18,931	28,516	8,312	308,843	54,568
Colorado School of Mines	81,443	3,894	5,713	3,081	682	10,812	0	1,220	0	54,062	1,979
Colorado State U., Fort Collins	447,197	3,621	60,073	288,731	2,980	12,947	3,755	11,988	6,461	41,575	15,066

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Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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 State U., Pueblo	2,990	190	0	1,845	19	8	27	6	0	64	831
Fort Lewis C.	1,926	0	46	416	4	835	0	0	0	605	20
U. Colorado Anschutz Medical Campus ^a	562,855	0	212	559,348	0	391	20	352	0	1,204	1,328
U. Colorado Boulder	547,724	16,468	118,876	53,211	2,857	120,677	13,610	14,018	1,724	177,604	28,679
U. Colorado Colorado Springs	5,338	1,965	141	755	0	310	259	36	127	902	843
U. Colorado Denver ^a	18,039	475	379	4,284	1,122	1,574	1,179	359	0	3,695	4,972
U. Northern Colorado	3,159	0	147	1,263	135	149	81	534	0	0	850
U.S. Air Force Academy	32,086	150	34	369	0	2,398	0	3	0	29,132	0
Private	44,218	22	166	5,607	98	4,131	6,682	1,795	0	3,558	22,159
Colorado C.	5,467	0	114	260	18	154	23	117	0	0	4,781
U. Denver	38,751	22	52	5,347	80	3,977	6,659	1,678	0	3,558	17,378
Connecticut	1,494,357	14,669	18,609	1,192,006	6,651	78,225	34,712	23,997	2,677	91,499	31,312
Public	311,039	5,729	11,005	176,273	2,418	18,336	22,504	7,649	2,616	54,285	10,224
Central Connecticut State U.	1,314	33	79	142	25	73	14	541	0	100	307
Eastern Connecticut State U.	1,646	248	143	210	87	5	28	3	127	0	795
Southern Connecticut State U.	5,750	154	300	689	187	576	332	400	229	0	2,883
U. Connecticut	302,329	5,294	10,483	175,232	2,119	17,682	22,130	6,705	2,260	54,185	6,239
Private	1,183,318	8,940	7,604	1,015,733	4,233	59,889	12,208	16,348	61	37,214	21,088
Connecticut C.	1,244	168	0	232	0	271	166	407	0	0	0
Fairfield U.	849	12	0	36	78	134	9	79	0	109	392
Sacred Heart U.	972	12	40	26	0	64	0	0	32	0	798
Trinity C., Hartford	1,775	9	0	1,077	64	113	295	117	0	45	55
U. Hartford	1,252	1	0	77	100	0	51	55	0	963	5
U. New Haven	4,069	1,359	93	190	0	323	232	1,499	0	319	54
Wesleyan U.	8,009	0	450	1,469	402	2,137	1,002	136	0	0	2,413
Yale U.	1,165,148	7,379	7,021	1,012,626	3,589	56,847	10,453	14,055	29	35,778	17,371
Delaware	254,725	4,516	18,550	75,019	1,387	28,319	9,134	13,854	2,435	90,635	10,876
Public	254,725	4,516	18,550	75,019	1,387	28,319	9,134	13,854	2,435	90,635	10,876

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Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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
Delaware State U.	23,193	334	377	14,196	3	2,304	1,144	528	0	308	3,999
U. Delaware	231,532	4,182	18,173	60,823	1,384	26,015	7,990	13,326	2,435	90,327	6,877
District of Columbia	717,928	31,745	1,678	402,791	5,568	47,482	9,532	76,874	6,079	39,344	96,835
Public	11,890	242	177	3,454	447	0	0	2,186	0	3,134	2,250
National Defense U.	3,786	0	0	400	0	0	0	2,186	0	0	1,200
U. of the District of Columbia	8,104	242	177	3,054	447	0	0	0	0	3,134	1,050
Private	706,038	31,503	1,501	399,337	5,121	47,482	9,532	74,688	6,079	36,210	94,585
American U.	65,912	649	1,035	1,148	1,538	4,404	1,063	16,428	3,243	0	36,404
Catholic U. of America	35,548	50	0	1,649	53	19,708	520	651	0	3,926	8,991
Gallaudet U.	6,126	2,141	2	1,159	1	92	1,715	1,006	0	0	10
George Washington U.	266,108	7,326	175	180,965	725	7,033	3,071	23,621	2,836	22,749	17,607
Georgetown U.	279,932	19,590	0	183,629	2,606	10,525	949	32,030	0	0	30,603
Howard U.	52,412	1,747	289	30,787	198	5,720	2,214	952	0	9,535	970
Florida	2,769,387	100,397	148,762	1,428,185	18,932	185,231	99,127	99,764	9,724	372,549	306,716
Public	2,326,008	91,751	82,509	1,115,419	17,693	172,831	82,595	98,825	9,589	350,852	303,944
Florida A&M U.	47,124	16	5,633	23,507	4	1,346	212	5	0	5,222	11,179
Florida Atlantic U.	58,471	2,479	2,013	27,748	1,026	2,726	1,771	153	0	17,064	3,491
Florida Gulf Coast U.	8,197	13	2,475	2,209	0	197	10	8	0	145	3,140
Florida International U.	246,075	16,708	16,584	55,462	1,915	27,997	34,345	19,172	1,950	41,740	30,202
Florida Polytechnic U.	1,269	193	0	0	0	71	0	73	0	829	103
Florida State U.	328,604	10,320	16,252	61,377	6,567	63,481	16,829	18,501	5,435	52,153	77,689
U. Central Florida	218,596	32,242	3,951	30,876	3,269	37,144	9,231	6,935	893	57,620	36,435
U. Florida	959,965	15,238	16,189	706,987	1,757	28,005	12,597	16,015	12	122,704	40,461
U. North Florida	15,782	418	21	1,647	19	608	249	277	0	2,119	10,424
U. South Florida ^b	405,088	11,614	19,373	203,414	3,055	9,900	6,927	33,907	1,299	50,547	65,052
U. West Florida	36,837	2,510	18	2,192	81	1,356	424	3,779	0	709	25,768
Private	443,379	8,646	66,253	312,766	1,239	12,400	16,532	939	135	21,697	2,772
Embry-Riddle Aeronautical U.	19,830	2,136	1,200	0	110	3,853	0	476	0	11,279	776
Florida Institute of Technology	23,195	5,643	3,254	2,175	286	3,547	1,371	0	71	5,891	957
Nova Southeastern U.	24,513	32	10,973	12,827	0	0	353	0	0	0	328

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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. Miami	375,841	835	50,826	297,764	843	5,000	14,808	463	64	4,527	711
Georgia	2,949,654	164,337	37,779	1,377,997	21,551	100,841	48,906	80,136	7,250	917,835	193,022
Public	1,996,399	160,643	35,562	539,565	18,308	69,317	42,794	75,999	6,400	865,872	181,939
Albany State U.	880	0	299	272	0	102	0	11	0	14	182
Augusta U.	116,480	141	0	115,862	44	172	155	41	0	0	65
Fort Valley State U.	4,842	42	82	4,620	22	76	0	0	0	0	0
Georgia Institute of Technology	1,114,481	146,318	13,998	32,997	8,614	33,914	3,782	7,467	0	839,071	28,320
Georgia Southern U.	37,201	1,045	890	7,662	1,405	5,400	1,069	3,743	26	4,052	11,909
Georgia State U.	206,472	4,896	1,500	65,536	2,091	17,588	9,692	33,767	0	0	71,402
Kennesaw State U.	18,880	3,745	0	3,073	287	1,133	231	2,554	1,280	1,858	4,719
Savannah State U.	1,804	0	815	268	0	34	0	0	99	588	0
U. Georgia	493,944	4,121	17,846	309,153	5,845	10,896	27,865	28,411	4,995	20,289	64,523
U. North Georgia	1,415	335	132	122	0	2	0	5	0	0	819
Private	953,255	3,694	2,217	838,432	3,243	31,524	6,112	4,137	850	51,963	11,083
Clark Atlanta U.	8,892	160	0	6,614	286	1,616	0	0	0	36	180
Emory U.	852,922	2,841	2,217	789,831	1,693	25,676	5,215	3,979	0	11,488	9,982
Mercer U.	51,989	140	0	8,627	219	1,878	270	105	217	40,439	94
Morehouse C.	4,533	540	0	90	949	1,831	59	0	633	0	431
Morehouse School of Medicine	32,637	0	0	32,637	0	0	0	0	0	0	0
Spelman C.	2,282	13	0	633	96	523	568	53	0	0	396
Hawaii	294,913	13,533	86,395	129,951	1,437	26,447	414	3,902	5,605	23,979	3,250
Public	293,064	13,461	86,106	128,740	1,437	26,447	414	3,670	5,605	23,966	3,218
U. Hawaii, Hilo	7,411	94	1,195	4,525	998	66	0	179	322	0	32
U. Hawaii, Manoa	271,768	11,590	73,176	123,962	439	26,381	414	3,481	5,283	23,966	3,076
U. Hawaii, Maui C.	967	450	144	253	0	0	0	10	0	0	110
U. Hawaii, system office	12,918	1,327	11,591	0	0	0	0	0	0	0	0
Private	1,849	72	289	1,211	0	0	0	232	0	13	32
Hawaii Pacific U.	1,849	72	289	1,211	0	0	0	232	0	13	32
Idaho	165,913	4,556	9,559	90,510	1,671	9,374	582	7,220	3,804	32,273	6,364
Public	165,913	4,556	9,559	90,510	1,671	9,374	582	7,220	3,804	32,273	6,364
Boise State U.	46,065	1,686	3,129	12,908	1,475	5,881	127	2,554	489	14,918	2,898

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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
Idaho State U.	13,953	686	1,627	4,167	2	1,847	266	213	527	4,411	207
U. Idaho	105,895	2,184	4,803	73,435	194	1,646	189	4,453	2,788	12,944	3,259
Illinois	2,914,398	158,026	22,892	1,810,943	14,781	250,154	35,280	68,466	48,039	386,218	119,599
Public	1,283,577	113,476	12,111	637,925	8,159	106,589	19,369	22,913	20,437	261,728	80,870
Illinois State U.	24,152	168	591	4,364	215	1,171	50	1,105	0	0	16,488
Northeastern Illinois U.	1,913	46	68	1,111	71	34	0	40	0	0	543
Northern Illinois U.	25,261	944	803	3,011	40	5,454	947	4,024	0	4,134	5,904
Southern Illinois U., Carbondale	47,210	566	1,643	37,448	14	2,052	381	996	990	3,120	0
Southern Illinois U., Edwardsville	18,044	49	2,542	7,333	185	1,374	0	334	0	1,786	4,441
U. Illinois, Chicago	429,585	12,103	943	324,053	4,021	17,718	2,928	8,351	6,112	35,675	17,681
U. Illinois, Springfield	2,612	0	0	6	0	20	0	2,260	0	0	326
U. Illinois, Urbana-Champaign	731,268	99,600	5,521	258,253	3,612	78,698	15,063	5,604	13,335	216,233	35,349
Western Illinois U.	3,532	0	0	2,346	1	68	0	199	0	780	138
Private	1,630,821	44,550	10,781	1,173,018	6,622	143,565	15,911	45,553	27,602	124,490	38,729
DePaul U.	6,675	1,552	276	573	2	258	2,415	43	174	0	1,382
Erikson Institute	1,723	0	0	0	0	0	0	0	0	0	1,723
Illinois Institute of Technology	29,698	2,647	224	9,053	381	3,483	0	13	4	13,737	156
Loyola U., Chicago	44,036	216	0	38,592	81	1,026	1,288	1,139	0	0	1,694
Midwestern U.	10,961	0	4	10,957	0	0	0	0	0	0	0
Northwestern U.	913,178	8,957	1,342	659,195	1,490	83,618	3,352	21,988	27,424	80,735	25,077
Rosalind Franklin U. of Medicine and Science	13,805	0	0	13,478	0	0	327	0	0	0	0
Rush U.	107,398	0	0	104,999	0	0	2,399	0	0	0	0
Toyota Technological Institute, Chicago	4,967	4,967	0	0	0	0	0	0	0	0	0
U. Chicago	497,651	26,205	8,854	336,114	4,653	55,032	6,041	22,088	0	30,018	8,646
Wheaton C., Wheaton	729	6	81	57	15	148	89	282	0	0	51
Indiana	1,699,302	81,716	16,551	795,226	9,647	124,463	30,662	78,942	33,525	398,344	130,226
Public	1,458,978	67,755	16,551	765,627	4,896	77,131	26,208	68,608	20,140	307,772	104,290

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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
Ball State U.	8,826	1,079	0	2,674	27	826	183	1,473	0	0	2,564
Indiana State U.	1,042	0	74	465	37	89	0	0	10	2	365
Indiana U., Bloomington	695,258	38,843	7,960	501,125	1,678	30,322	13,211	40,800	12,122	13,012	36,185
Indiana U., South Bend	898	3	1	62	0	281	187	10	170	0	184
Indiana U.-Purdue U., Indianapolis	65,330	4,643	938	22,890	404	2,748	4,030	11,605	4,993	6,604	6,475
Purdue U., Fort Wayne	2,495	0	0	255	8	92	233	108	156	465	1,178
Purdue U., Northwest	5,647	863	0	974	0	110	22	1	70	2,220	1,387
Purdue U., West Lafayette	679,482	22,324	7,578	237,182	2,742	42,663	8,342	14,611	2,619	285,469	55,952
Private	240,324	13,961	0	29,599	4,751	47,332	4,454	10,334	13,385	90,572	25,936
U. Notre Dame	240,324	13,961	0	29,599	4,751	47,332	4,454	10,334	13,385	90,572	25,936
Iowa	931,207	10,313	7,978	565,832	16,738	60,598	14,596	19,174	4,002	171,195	60,781
Public	917,410	10,042	7,772	558,404	16,508	59,675	14,576	17,863	4,002	171,150	57,418
Iowa State U.	360,275	5,844	5,650	142,283	16,101	26,696	3,595	10,196	878	123,428	25,604
U. Iowa	553,876	4,180	1,971	415,734	406	32,013	10,981	6,010	3,124	47,722	31,735
U. Northern Iowa	3,259	18	151	387	1	966	0	1,657	0	0	79
Private	13,797	271	206	7,428	230	923	20	1,311	0	45	3,363
Des Moines U.	5,258 i	0 i	206 i	3,805 i	0 i	0 i	0 i	593 i	0 i	0 i	654 i
Dordt U.	696	69	0	464	94	11	0	1	0	45	12
Drake U.	1,488	1	0	503	28	221	0	31	0	0	704
Grinnell C.	4,122	201	0	423	108	691	20	686	0	0	1,993
Palmer C. of Chiropractic, Davenport	2,233	0	0	2,233	0	0	0	0	0	0	0
Kansas	785,055	7,550	13,490	364,210	3,670	29,957	16,234	12,105	17,117	208,786	111,936
Public	785,055	7,550	13,490	364,210	3,670	29,957	16,234	12,105	17,117	208,786	111,936
Fort Hays State U.	800	0	117	334	0	267	0	11	0	0	71
Kansas State U.	203,846	3,898	1,130	119,328	2,708	12,736	4,287	9,633	8,736	27,743	13,647
Pittsburg State U.	2,730	0	0	293	0	24	0	163	0	2,250	0
U. Kansas	385,637	3,652	11,923	230,059	543	15,492	11,469	1,918	8,381	21,363	80,837
Wichita State U.	192,042	0	320	14,196	419	1,438	478	380	0	157,430	17,381
Kentucky	655,290	4,131	4,712	497,984	2,785	14,189	7,201	5,921	19,408	74,744	24,215
Public	655,290	4,131	4,712	497,984	2,785	14,189	7,201	5,921	19,408	74,744	24,215
Eastern Kentucky U.	986	0	10	509	0	131	43	64	82	58	89

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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
Kentucky State U.	8,756	15	2	8,546	193	0	0	0	0	0	0
Morehead State U.	1,754	0	7	802	0	5	0	165	0	756	19
Murray State U.	3,844	0	139	3,108	309	201	0	0	0	0	87
Northern Kentucky U.	3,403	34	0	1,939	65	671	459	98	0	0	137
U. Kentucky	429,241	4,011	3,356	323,030	1,512	8,722	4,185	4,075	17,548	52,361	10,441
U. Louisville	200,362	71	185	157,735	697	3,254	1,757	1,330	1,778	20,965	12,590
Western Kentucky U.	6,944	0	1,013	2,315	9	1,205	757	189	0	604	852
Louisiana	830,787	38,768	40,888	490,628	7,275	50,680	3,811	20,744	13,052	91,570	73,371
Public	610,254	36,243	36,584	320,887	6,757	36,970	2,040	13,771	13,052	84,851	59,099
Grambling State U.	2,124	0	0	0	0	1,238	0	0	0	0	886
Louisiana State U., Baton Rouge	296,673	15,399	28,763	158,608	2,077	23,438	750	4,537	10,831	39,104	13,166
Louisiana State U., Health Sciences Center, New Orleans	44,370	0	0	44,370	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	24,600	0	0	24,600	0	0	0	0	0	0	0
Louisiana Tech U.	27,417	1,952	236	2,242	999	2,342	616	1,136	0	11,257	6,637
Northwestern State U. Louisiana	1,663	224	0	89	12	0	0	919	0	0	419
Southeastern Louisiana U.	1,723	2	0	795	0	247	0	11	0	16	652
Southern U. and A&M C., Agricultural Research and Extension Center	6,164	0	0	6,164	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	4,943	473	0	492	68	583	0	1	0	2,282	1,044
U. Louisiana, Lafayette	181,400	16,823	6,277	80,528	3,119	6,453	151	3,919	1,184	30,295	32,651
U. Louisiana, Monroe	2,198	0	64	1,885	0	17	0	169	0	0	63
U. New Orleans	16,979	1,370	1,244	1,114	482	2,652	523	3,079	1,037	1,897	3,581
Private	220,533	2,525	4,304	169,741	518	13,710	1,771	6,973	0	6,719	14,272
Dillard U.	2,528	0	87	1,356	0	252	0	38	0	0	795
Tulane U.	205,206	1,873	4,217	164,874	518	5,018	1,771	6,935	0	6,662	13,338
Xavier U. Louisiana	12,799	652	0	3,511	0	8,440	0	0	0	57	139

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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
Maine	165,224	4,201	26,215	48,195	684	7,785	1,408	5,524	12,954	47,145	11,113
Public	152,281	4,007	24,796	39,428	668	6,820	1,108	5,183	12,905	47,145	10,221
U. Maine	146,801	2,585	24,778	38,598	657	6,803	1,108	2,316	12,888	46,986	10,082
U. Southern Maine	5,480	1,422	18	830	11	17	0	2,867	17	159	139
Private	12,943	194	1,419	8,767	16	965	300	341	49	0	892
Bates C.	2,620	19	37	1,783	2	413	101	173	49	0	43
Bowdoin C.	2,417	81	328	1,262	10	288	125	18	0	0	305
Colby C.	1,672	94	187	382	3	245	72	150	0	0	539
U. New England	6,234	0	867	5,340	1	19	2	0	0	0	5
Maryland	4,914,256	335,424	206,223	2,102,482	123,085	463,521	34,407	82,185	68,341	1,413,780	84,808
Public	1,732,871	65,384	126,966	1,032,617	5,656	125,067	28,206	76,880	17,935	175,800	78,360
Bowie State U.	1,398	446	0	96	0	438	0	0	0	0	418
Morgan State U.	20,628	660	3,298	5,810	146	774	9	160	0	8,031	1,740
Salisbury U.	10,552	303	988	2,598	123	440	13	488	0	3	5,596
Towson U.	3,794	530	481	914	191	723	213	238	0	0	504
U. Baltimore	14,672	46	0	0	0	45	0	2,824	0	0	11,757
U. Maryland ^c	1,142,264	50,483	61,660	633,517	3,760	101,322	8,600	58,423	15,701	154,163	54,635
U. Maryland Center for Environmental Science	51,201	40	40,621	8,729	15	519	0	326	0	72	879
U. Maryland, Baltimore County	84,418	12,102	15,087	10,033	428	19,202	1,491	14,413	2,234	6,668	2,760
U. Maryland, Eastern Shore	8,636	0	4,182	4,310	0	0	0	0	0	144	0
U.S. Naval Academy	10,818	774	649	0	993	1,604	0	8	0	6,719	71
Uniformed Services U. of the Health Sciences	384,490	0	0	366,610	0	0	17,880	0	0	0	0
Private	3,181,385	270,040	79,257	1,069,865	117,429	338,454	6,201	5,305	50,406	1,237,980	6,448
Johns Hopkins U. ^d	3,181,385	270,040	79,257	1,069,865	117,429	338,454	6,201	5,305	50,406	1,237,980	6,448
Massachusetts	4,568,999	229,875	273,145	1,954,323	53,914	432,465	67,570	300,230	46,407	912,804	298,266
Public	754,263	39,183	21,352	442,647	5,955	47,640	14,050	26,369	3,283	105,719	48,065
Framingham State U.	2,401	0	0	2,132	0	258	11	0	0	0	0
U. Massachusetts, Amherst	213,824	27,336	3,582	69,519	3,218	22,250	8,004	5,623	1,590	60,065	12,637

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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. Massachusetts, Boston	63,723	2,709	2,960	8,612	486	4,174	4,292	12,178	444	1,266	26,602
U. Massachusetts, central office	3,541	0	0	392	0	0	0	1,611	852	0	686
U. Massachusetts, Dartmouth	28,729	1,718	12,196	1,834	1,497	2,650	0	42	0	8,049	743
U. Massachusetts, Lowell	94,708	7,420	2,614	12,821	754	18,308	1,743	6,915	397	36,339	7,397
U. Massachusetts, Medical School	347,337	0	0	347,337	0	0	0	0	0	0	0
Private	3,814,736	190,692	251,793	1,511,676	47,959	384,825	53,520	273,861	43,124	807,085	250,201
Amherst C.	4,636	150	567	1,259	316	1,203	201	530	0	0	410
Babson C.	1,286	0	0	0	0	0	0	0	0	0	1,286
Boston C.	65,156	663	7,414	9,313	1,079	11,863	4,588	10,756	0	50	19,430
Boston U.	652,096	14,542	7,876	445,535	5,039	35,094	22,092	9,041	6,515	79,757	26,605
Brandeis U.	107,549	3,187	0	27,969	1,880	15,157	4,423	34,261	0	4,055	16,617
Clark U.	7,931	36	1,197	2,197	0	1,386	223	2,711	0	0	181
Franklin W. Olin C. of Engineering	1,627	0	0	0	0	0	0	0	0	936	691
Harvard U.	1,254,008	20,858	38,756	714,069	19,503	109,606	4,200	136,543	8,608	92,782	109,083
Massachusetts Institute of Technology	949,076	116,877	30,961	118,283	9,015	170,494	478	47,850	19,812	382,569	52,737
MGH Institute of Health Professions	3,037	0	0	2,500	0	0	0	0	0	0	537
Mount Holyoke C.	2,026	152	0	456	62	550	519	106	0	0	181
New England C. of Optometry	1,978	0	0	1,978	0	0	0	0	0	0	0
Northeastern U.	211,342	21,505	4,044	32,513	1,210	24,279	9,695	13,062	0	92,723	12,311
Smith C.	4,085	352	228	1,462	120	495	195	93	0	688	452
Suffolk U.	2,043	0	28	33	0	70	438	0	0	66	1,408
Tufts U.	224,956	1,045	377	149,664	7,181	9,212	5,486	15,859	8,188	24,017	3,927
Wellesley C.	6,252	505	86	1,554	263	327	899	722	0	345	1,551
Williams C.	4,902	113	200	703	411	1,237	83	812	1	0	1,342
Woods Hole Oceanographic Institution	262,048	0	160,059	0	0	0	0	0	0	101,989	0

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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
Worcester Polytechnic Institute	48,702	10,707	0	2,188	1,880	3,852	0	1,515	0	27,108	1,452
Michigan	2,842,492	38,587	42,804	1,534,464	33,632	270,088	36,298	230,453	29,000	439,018	188,148
Public	2,760,416	38,246	42,600	1,462,804	33,375	266,851	36,024	229,046	28,989	437,630	184,851
Central Michigan U.	21,726	87	557	14,879	141	1,891	486	152	1,785	412	1,336
Eastern Michigan U.	7,233	30	108	2,811	174	211	183	892	6	427	2,391
Grand Valley State U.	6,809	31	2,803	1,833	53	247	52	1,178	0	118	494
Michigan State U.	710,178	15,996	5,695	317,235	11,152	167,520	13,042	45,620	17,284	79,360	37,274
Michigan Technological U.	81,715	4,582	16,272	2,621	1,942	4,085	546	1,279	447	46,733	3,208
Northern Michigan U.	1,364	37	101	855	0	10	69	55	0	0	237
Oakland U.	20,261	1,150	0	7,887	55	5,596	377	161	0	4,437	598
Saginaw Valley State U.	2,428 i	7 i	36 i	1,282 i	617 i	36 i	11 i	105 i	12 i	280 i	42 i
U. Michigan, Ann Arbor	1,639,645	13,922	15,080	931,174	17,937	66,041	18,255	175,698	3,628	279,682	118,228
U. Michigan, Dearborn	7,472	61	0	226	190	169	154	62	89	6,223	298
U. Michigan, Flint	752	16	0	172	0	12	5	14	30	225	278
Wayne State U.	235,519	2,158	288	175,847	1,093	19,885	2,542	3,585	5,621	11,675	12,825
Western Michigan U. and Homer Stryker M.D. School of Medicine	25,314	169	1,660	5,982	21	1,148	302	245	87	8,058	7,642
Private	82,076	341	204	71,660	257	3,237	274	1,407	11	1,388	3,297
Albion C.	1,127 i	1 i	82 i	94 i	30 i	435 i	44 i	171 i	11 i	0 i	259 i
Andrews U.	802	0	32	7	0	174	0	509	0	50	30
Calvin U.	1,490 i	218 i	31 i	514 i	33 i	458 i	0 i	88 i	0 i	97 i	51 i
Hope C.	5,211	63	59	1,152	30	2,032	177	639	0	277	782
Kettering U.	1,315	5	0	8	2	77	0	0	0	295	928
Lawrence Technological U.	1,764	54	0	0	9	55	0	0	0	555	1,091
U. Detroit Mercy	4,578	0	0	4,096	153	6	53	0	0	114	156
Van Andel Research Institute	65,789	0	0	65,789	0	0	0	0	0	0	0
Minnesota	1,115,363	23,891	15,820	782,984	9,161	44,034	30,436	34,891	3,097	128,268	42,781
Public	1,102,132	23,272	14,406	780,952	8,829	42,586	29,726	33,828	3,097	125,056	40,380

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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	2,170	0	13	448	0	29	298	0	250	996	136
St. Cloud State U.	2,379	233	128	379	0	13	0	393	2	31	1,200
U. Minnesota, Duluth	23,767	242	451	19,119	274	624	20	154	0	2,392	491
U. Minnesota, Morris	855	168	180	31	0	108	0	33	0	0	335
U. Minnesota, Twin Cities	1,072,961	22,629	13,634	760,975	8,555	41,812	29,408	33,248	2,845	121,637	38,218
Private	13,231	619	1,414	2,032	332	1,448	710	1,063	0	3,212	2,401
C. of Saint Benedict	1,064	19	0	450	14	108	37	114	0	0	322
Carleton C.	3,800	68	900	501	173	531	234	577	0	0	816
Macalester C.	1,280	70	221	108	100	451	23	160	0	0	147
Saint John's U.	1,125	20	0	470	13	108	37	125	0	0	352
St. Olaf C.	816	114	71	321	4	82	51	84	0	0	89
U. of St. Thomas (MN)	5,146	328	222	182	28	168	328	3	0	3,212	675
Mississippi	491,172	6,713	42,938	232,972	2,282	44,820	3,017	36,766	2,597	81,885	37,182
Public	489,080	6,713	42,938	231,239	2,282	44,461	3,017	36,766	2,597	81,885	37,182
Alcorn State U.	14,188	0	0	6,826	0	0	0	7,181	0	181	0
Jackson State U.	16,157	662	2	3,183	44	8,231	174	73	217	2,236	1,335
Mississippi State U.	275,143	5,546	15,520	127,096	1,880	10,755	1,836	25,601	2,206	67,472	17,231
U. Mississippi	116,175	273	1,306	82,916	358	10,803	889	1,777	174	6,033	11,646
U. Southern Mississippi	67,417	232	26,110	11,218	0	14,672	118	2,134	0	5,963	6,970
Private	2,092	0	0	1,733	0	359	0	0	0	0	0
Tougaloo C.	2,092	0	0	1,733	0	359	0	0	0	0	0
Missouri	1,582,870	17,264	10,023	1,230,715	3,159	43,792	13,245	11,933	33,406	144,926	74,407
Public	509,338	11,344	1,676	271,821	2,129	17,341	6,891	9,179	30,290	116,353	42,314
Lincoln U., Jefferson City	7,621	6	60	7,345	90	0	0	120	0	0	0
Missouri State U.	10,014	42	177	2,109	0	345	34	263	0	7,024	20
Missouri U. of Science and Technology	54,437	2,545	0	555	252	4,478	134	69	166	43,470	2,768
U. Missouri, Columbia	388,779	6,866	1,249	237,728	1,377	8,722	5,836	6,665	29,372	56,685	34,279
U. Missouri, Kansas City	33,855	1,698	190	17,966	3	1,451	646	180	448	9,174	2,099
U. Missouri, Saint Louis	14,632	187	0	6,118	407	2,345	241	1,882	304	0	3,148
Private	1,073,532	5,920	8,347	958,894	1,030	26,451	6,354	2,754	3,116	28,573	32,093
Saint Louis U.	79,005	1,345	2,264	65,928	190	2,131	233	1,380	0	1,999	3,535

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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. of Health Sciences and Pharmacy in St. Louis	5,313	0	0	5,313	0	0	0	0	0	0	0
Washington U., Saint Louis	989,214	4,575	6,083	887,653	840	24,320	6,121	1,374	3,116	26,574	28,558
Montana	330,081	4,832	19,902	148,059	3,405	32,160	1,348	23,142	11,499	57,619	28,115
Public	330,081	4,832	19,902	148,059	3,405	32,160	1,348	23,142	11,499	57,619	28,115
Montana State U., Bozeman	193,577	2,625	5,468	74,897	2,527	23,329	415	2,194	11,499	51,785	18,838
Montana Technological U.	14,933	0	8,222	661	0	216	0	0	0	5,834	0
U. Montana, Missoula	121,571	2,207	6,212	72,501	878	8,615	933	20,948	0	0	9,277
Nebraska	575,986	13,558	2,062	394,577	5,263	27,667	13,364	14,904	5,870	60,399	38,322
Public	551,559	12,432	2,062	376,435	5,024	25,927	13,085	13,836	5,870	60,398	36,490
U. Nebraska, central administration	21,295	448	0	12,423	0	0	0	0	0	8,060	364
U. Nebraska, Kearney	3,201	43	0	2,021	0	657	127	19	0	0	334
U. Nebraska, Lincoln	307,083	9,353	2,028	153,809	4,556	25,194	12,502	11,493	2,521	51,287	34,340
U. Nebraska, Medical Center	200,974	0	0	200,974	0	0	0	0	0	0	0
U. Nebraska, Omaha	19,006	2,588	34	7,208	468	76	456	2,324	3,349	1,051	1,452
Private	24,427	1,126	0	18,142	239	1,740	279	1,068	0	1	1,832
Creighton U.	23,251	928	0	17,512	239	1,621	279	1,068	0	0	1,604
Doane U.	1,176	198	0	630	0	119	0	0	0	1	228
Nevada	308,745	7,858	47,903	119,991	4,401	18,614	10,160	14,173	3,403	38,436	43,806
Public	302,760	7,858	47,903	114,098	4,401	18,614	10,160	14,173	3,403	38,436	43,714
Desert Research Institute	26,365	0	22,791	3,574	0	0	0	0	0	0	0
U. Nevada, Las Vegas	101,009	1,015	6,082	32,306	2,624	10,589	3,738	6,536	558	10,667	26,894
U. Nevada, Reno	175,386	6,843	19,030	78,218	1,777	8,025	6,422	7,637	2,845	27,769	16,820
Private	5,985	0	0	5,893	0	0	0	0	0	0	92
Roseman U. of Health Sciences	5,985	0	0	5,893	0	0	0	0	0	0	92
New Hampshire	498,518	19,660	60,130	217,119	8,171	31,517	12,949	36,504	4,466	56,182	51,820
Public	168,292	1,104	55,523	53,417	1,239	5,205	1,279	13,329	0	22,623	14,573
Keene State C.	919	47	0	510	0	248	0	0	0	114	0
U. New Hampshire	167,373	1,057	55,523	52,907	1,239	4,957	1,279	13,329	0	22,509	14,573

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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	330,226	18,556	4,607	163,702	6,932	26,312	11,670	23,175	4,466	33,559	37,247
Dartmouth C. and Dartmouth Hitchcock Medical Center	330,226	18,556	4,607	163,702	6,932	26,312	11,670	23,175	4,466	33,559	37,247
New Jersey	1,352,770	52,246	60,539	630,519	27,549	145,908	17,112	76,481	4,209	246,700	91,507
Public	897,949	23,744	29,844	533,806	15,821	44,076	11,659	19,113	4,079	145,486	70,321
C. New Jersey	1,912	178	0	856	10	423	10	1	67	283	84
Kean U.	3,538	229	61	56	0	18	16	0	13	0	3,145
Montclair State U.	17,390	314	1,815	3,231	785	737	3,099	1,378	7	104	5,920
New Jersey Institute of Technology	166,587	11,575	0	22,393	4,949	15,415	0	6,602	16	82,240	23,397
Rowan U.	26,458	588	397	10,849	225	1,524	739	65	129	11,570	372
Rutgers, State U. New Jersey, Camden	5,142	2,353	0	13	111	41	26	1,339	0	0	1,259
Rutgers, State U. New Jersey, New Brunswick	643,955	6,316	24,326	483,265	9,673	23,111	6,145	7,351	3,804	51,289	28,675
Rutgers, State U. New Jersey, Newark	23,854	2,013	1,873	11,845	0	2,667	1,139	672	43	0	3,602
Stockton U.	1,246	0	885	247	0	0	0	114	0	0	0
William Paterson U.	7,867	178	487	1,051	68	140	485	1,591	0	0	3,867
Private	454,821	28,502	30,695	96,713	11,728	101,832	5,453	57,368	130	101,214	21,186
Monmouth U.	1,667	0	1,492	74	0	44	12	45	0	0	0
Princeton U.	404,448	23,518	29,203	95,938	11,672	99,326	5,441	57,323	0	67,231	14,796
Seton Hall U.	5,320	0	0	607	0	396	0	0	0	0	4,317
Stevens Institute of Technology	43,386	4,984	0	94	56	2,066	0	0	130	33,983	2,073
New Mexico	473,020	14,573	19,301	293,050	1,348	28,914	6,743	11,114	7,272	84,203	6,502
Public	473,020	14,573	19,301	293,050	1,348	28,914	6,743	11,114	7,272	84,203	6,502
New Mexico Highlands U.	1,129	141	198	222	0	568	0	0	0	0	0
New Mexico Institute of Mining and Technology	28,745	6,732	7,309	290	3	1,151	0	0	0	13,002	258
New Mexico State U.	110,580	4,043	5,067	48,808	116	20,108	422	570	502	29,884	1,060
U. New Mexico	332,566	3,657	6,727	243,730	1,229	7,087	6,321	10,544	6,770	41,317	5,184
New York	7,577,235	167,226	152,114	4,961,142	51,181	455,657	109,253	161,704	27,037	1,125,871	366,050

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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	1,716,336	49,974	57,281	611,507	17,093	107,991	46,427	54,106	18,618	681,911	71,428
CUNY, Advanced Science Research Center	15,403	74	1,030	5,261	0	6,107	0	0	0	2,928	3
CUNY, Baruch C.	2,521	45	44	785	211	256	279	677	0	0	224
CUNY, Brooklyn C.	6,318	314	504	1,570	68	1,325	1,723	169	18	77	550
CUNY, C. Staten Island	2,860	54	0	1,109	391	525	352	21	0	274	134
CUNY, City C.	57,361	778	1,600	9,192	158	8,709	15	16	0	34,710	2,183
CUNY, Graduate Center	4,265	22	0	110	332	547	682	1,325	328	6	913
CUNY, Graduate School of Public Health and Health Policy	15,035	0	0	14,025	0	0	1,010	0	0	0	0
CUNY, Hunter C.	33,816	1,395	1,010	7,852	217	5,489	12,382	2,509	0	0	2,962
CUNY, John Jay C. of Criminal Justice	11,791	16	0	48	12	235	933	569	95	0	9,883
CUNY, Lehman C.	4,181	81	20	249	343	2,062	0	213	0	0	1,213
CUNY, New York City C. of Technology	1,367	172	0	362	50	331	0	11	0	103	338
CUNY, Queens C.	16,063	294	402	10,421	251	1,815	1,082	579	102	0	1,117
CUNY, system office	1,664	158	0	37	0	0	49	0	283	1,137	0
CUNY, York C.	1,133	0	543	142	12	192	159	0	0	12	73
SUNY, Binghamton U.	124,565	8,490	1,636	12,788	3,133	14,568	10,640	19,706	0	39,529	14,075
SUNY, Buffalo State	1,962	0	869	780	112	0	0	174	0	0	27
SUNY, C. Brockport	1,114	0	319	680	1	103	0	6	0	2	3
SUNY, C. of Environmental Science and Forestry	28,440	190	995	23,850	0	404	1,531	22	68	1,085	295
SUNY, C. of Optometry	3,460	0	0	3,460	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	1,280	0	813	279	0	137	0	0	0	0	51
SUNY, Downstate Health Sciences U.	34,459	0	0	34,459	0	0	0	0	0	0	0
SUNY, Geneseo	2,070	0	212	108	3	1,197	219	108	0	0	223
SUNY, Oswego	1,003	56	71	135	3	328	2	71	257	43	37
SUNY, Polytechnic Institute	465,273	0	0	2,587	0	0	0	0	0	462,562	124
SUNY, Stony Brook U.	274,516	12,621	26,694	127,257	7,407	43,101	5,557	2,776	16,646	28,344	4,113

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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, U. Albany	114,501	5,230	15,605	52,135	1,400	6,791	3,748	12,288	23	3,133	14,148
SUNY, U. Buffalo	425,349	17,679	4,912	254,314	1,730	13,431	5,677	8,687	642	100,194	18,083
SUNY, Upstate Medical U.	44,870	0	0	44,870	0	0	0	0	0	0	0
U.S. Military Academy	19,696	2,305	2	2,642	1,259	338	387	4,179	156	7,772	656
Private	5,860,899	117,252	94,833	4,349,635	34,088	347,666	62,826	107,598	8,419	443,960	294,622
Albany C. of Pharmacy and Health Sciences	3,687	0	0	3,687	0	0	0	0	0	0	0
Albany Medical C.	22,443	0	0	22,443	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	301,715	0	0	301,715	0	0	0	0	0	0	0
Alfred U.	2,660	0	1	0	0	5	0	0	0	2,654	0
Barnard C.	4,632	260	164	1,008	10	1,319	1,043	320	0	0	508
Canisius C.	1,036	0	0	0	0	173	0	0	863	0	0
Clarkson U.	16,765	776	172	1,014	868	2,414	113	42	0	10,113	1,253
Cold Spring Harbor Laboratory	114,903	0	0	114,885	0	0	0	0	0	0	18
Colgate U.	3,306	214	677	507	153	884	63	309	0	0	499
Columbia U. in the City of New York	1,098,570	27,763	77,515	797,089	2,951	46,386	4,637	11,332	0	75,457	55,440
Cornell U.	1,183,524	28,125	6,589	833,824	2,467	120,151	11,273	22,269	0	118,621	40,205
Fordham U.	16,731	287	0	1,207	140	1,067	2,116	662	0	0	11,252
Hamilton C.	1,747	4	1	122	10	193	69	322	60	0	966
Hobart and William Smith Colleges	1,941	4	23	1,664	6	152	7	30	0	0	55
Hofstra U.	5,545	97	53	1,062	85	141	109	1,032	0	528	2,438
Icahn School of Medicine at Mount Sinai	820,260	0	0	820,260	0	0	0	0	0	0	0
Ithaca C.	1,030	73	114	230	74	379	2	94	0	0	64
Long Island U.	15,059	5	261	7,162	372	996	950	906	0	0	4,407
Manhattan C.	1,864	0	0	49	239	112	0	0	0	1,122	342
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	3,776	0	0	3,776	0	0	0	0	0	0	0

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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
New School	14,281	19	169	197	56	0	635	5,293	0	3,793	4,119
New York Institute of Technology	4,465	303	0	3,277	0	3	0	31	0	775	76
New York Medical C.	18,872	0	0	18,872	0	0	0	0	0	0	0
New York U.	1,063,704	15,246	436	771,663	16,998	26,417	27,209	29,601	17	99,307	76,810
Niagara U.	509	0	0	49	5	42	0	195	0	0	218
Pace U.	3,649	758	0	644	0	226	7	5	0	706	1,303
Pratt Institute	2,547	0	0	0	0	0	0	0	0	0	2,547
Rensselaer Polytechnic Institute	119,056	13,145	1,868	6,913	2,944	12,251	4,036	1,535	78	67,810	8,476
Rochester Institute of Technology	56,043	8,809	0	1,551	2,178	12,388	110	2,603	0	20,874	7,530
Rockefeller U.	357,543	8,886	660	339,729	1,433	6,835	0	0	0	0	0
Skidmore C.	2,335	14	320	1,042	0	689	146	58	0	0	66
St. John's U., New York	2,940	75	0	2,197	0	345	79	0	0	0	244
Syracuse U.	151,717	5,582	3,005	10,916	2,572	13,926	3,916	14,920	145	24,698	72,037
Teachers C., Columbia U.	24,335	2,913	0	5,040	0	0	878	15,472	0	0	32
U. Rochester	409,255	3,608	2,536	271,630	214	99,556	5,135	343	7,256	16,780	2,197
Union C., Schenectady	1,396	59	252	74	6	185	24	31	0	722	43
Vassar C.	1,606	227	17	307	307	178	269	193	0	0	108
Yeshiva U.	5,452	0	0	3,830	0	253	0	0	0	0	1,369
North Carolina	3,503,943	79,727	60,922	2,545,334	37,107	109,037	60,867	126,163	14,821	335,763	134,202
Public	1,995,082	74,135	53,612	1,249,431	27,858	83,842	52,309	88,322	14,770	239,661	111,142
Appalachian State U.	4,509	356	357	1,745	29	591	307	265	0	0	859
East Carolina U.	51,662	603	4,564	28,703	7	1,814	974	2,319	0	3,069	9,609
Elizabeth City State U.	1,717	518	0	752	0	0	49	0	0	0	398
Fayetteville State U.	3,933	584	0	960	0	147	0	293	0	288	1,661
North Carolina Agricultural and Technical State U.	40,751	1,227	0	20,086	797	1,158	236	69	0	11,616	5,562
North Carolina Central U.	14,105	157	294	6,109	0	3,257	0	250	0	1,773	2,265
North Carolina State U.	547,118	17,016	25,579	237,289	20,392	28,455	2,523	10,768	14,385	172,900	17,811
U. North Carolina, Asheville	4,844	284	260	2,045	0	558	2	0	0	0	1,695

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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, Chapel Hill	1,205,883	32,344	16,879	925,380	5,489	38,809	43,348	67,325	15	30,935	45,359
U. North Carolina, Charlotte	51,877	18,214	1,054	4,701	782	3,367	750	2,947	0	15,643	4,419
U. North Carolina, general administration	4,024	1,192	0	534	0	0	11	0	0	2,068	219
U. North Carolina, Greensboro	37,033	806	0	8,934	308	4,250	3,539	1,155	0	0	18,041
U. North Carolina, Wilmington	16,656	244	4,311	7,179	51	435	214	1,183	370	1,064	1,605
Western Carolina U.	2,847	0	314	1,484	3	45	0	290	0	305	406
Winston-Salem State U.	8,123	590	0	3,530	0	956	356	1,458	0	0	1,233
Private	1,508,861	5,592	7,310	1,295,903	9,249	25,195	8,558	37,841	51	96,102	23,060
Davidson C.	2,466	0	0	595	79	451	691	456	7	0	187
Duke U.	1,237,686	5,273	7,310	1,040,786	8,922	22,131	6,923	36,432	23	94,483	15,403
Elon U.	2,032	41	0	288	87	59	132	264	21	29	1,111
Johnson C. Smith U.	2,461 i	12 i	0 i	437 i	0 i	318 i	0 i	0 i	0 i	386 i	1,308 i
Wake Forest U.	264,216	266	0	253,797	161	2,236	812	689	0	1,204	5,051
North Dakota	307,556	4,785	6,914	137,493	1,873	13,041	3,996	8,263	6,018	100,541	24,632
Public	307,556	4,785	6,914	137,493	1,873	13,041	3,996	8,263	6,018	100,541	24,632
North Dakota State U.	164,050	2,929	680	106,163	1,501	10,077	2,283	6,686	5,701	13,963	14,067
U. North Dakota	143,506	1,856	6,234	31,330	372	2,964	1,713	1,577	317	86,578	10,565
Ohio	2,787,835	38,459	24,092	1,838,118	10,779	116,646	25,656	51,366	44,590	517,268	120,861
Public	2,171,167	28,353	21,280	1,476,784	9,934	106,191	23,836	45,429	44,211	298,031	117,118
Air Force Institute of Technology	45,703	1,921	175	0	828	15,999	0	0	0	26,780	0
Bowling Green State U.	18,619	192	1,875	3,158	160	2,345	979	3,631	20	57	6,202
Central State U.	8,751	0	102	8,134	69	67	0	0	168	211	0
Cleveland State U.	71,451	0	0	45,321	642	976	762	5,902	0	12,371	5,477
Kent State U.	50,408	1,509	1,038	9,034	1,385	9,048	4,536	4,930	828	3,732	14,368
Miami U.	25,138	564	1,071	9,733	427	3,940	1,510	1,444	0	4,356	2,093
Northeast Ohio Medical U.	13,853	0	5	13,823	0	0	0	23	2	0	0
Ohio State U.	1,236,111	16,691	7,979	876,239	4,793	40,010	8,139	17,017	42,228	163,509	59,506

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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
Ohio U.	49,764	271	2,183	16,838	53	5,520	1,792	897	0	16,645	5,565
U. Akron	17,340	32	467	1,390	161	6,703	226	54	0	7,714	593
U. Cincinnati	551,826	3,614	913	456,847	1,320	9,189	4,278	11,451	898	42,434	20,882
U. Toledo	53,169	0	5,309	25,012	3	10,594	365	47	0	10,299	1,540
Wright State U.	26,259	3,531	163	11,213	90	1,465	1,194	0	67	8,129	407
Youngstown State U.	2,775	28	0	42	3	335	55	33	0	1,794	485
Private	616,668	10,106	2,812	361,334	845	10,455	1,820	5,937	379	219,237	3,743
C. Wooster	1,071 i	109 i	59 i	257 i	106 i	240 i	37 i	16 i	0 i	0 i	247 i
Case Western Reserve U.	421,868	2,407	536	360,294	697	9,007	1,654	5,880	379	39,079	1,935
Heidelberg U.	1,725	0	1,725	0	0	0	0	0	0	0	0
Oberlin C.	776	62	27	239	39	298	11	26	0	0	74
U. Dayton	191,228	7,528	465	544	3	910	118	15	0	180,158	1,487
Oklahoma	622,581	11,318	94,422	259,658	6,685	26,481	10,649	17,034	7,002	87,196	102,136
Public	606,132	8,535	94,220	258,933	6,682	26,078	10,177	16,860	7,002	76,270	101,375
Langston U.	6,345	0	0	6,062	0	28	0	0	0	0	255
Oklahoma State U., Center for Health Sciences	7,758	99	0	6,928	0	0	624	0	0	101	6
Oklahoma State U., Stillwater	198,799	3,636	3,119	77,720	4,276	8,824	6,926	5,445	6,896	35,094	46,863
U. Central Oklahoma	5,997 i	139 i	0 i	382 i	132 i	729 i	0 i	0 i	106 i	1 i	4,508 i
U. Oklahoma, Norman and Health Science Center	380,048	4,661	91,101	165,745	2,274	16,497	2,599	11,396	0	39,785	45,990
U. Oklahoma, Tulsa	7,185	0	0	2,096	0	0	28	19	0	1,289	3,753
Private	16,449	2,783	202	725	3	403	472	174	0	10,926	761
U. Tulsa	16,449	2,783	202	725	3	403	472	174	0	10,926	761
Oregon	929,355	15,453	51,650	670,887	3,336	22,178	22,452	14,521	6,298	73,686	48,894
Public	914,585	15,381	51,317	664,460	2,972	20,585	21,920	13,848	6,247	73,686	44,169
Oregon Health and Science U.	452,812	0	0	439,212	0	0	60	0	0	13,526	14
Oregon Institute of Technology	4,314	134 i	328 i	2,894 i	84 i	0 i	113 i	0 i	0 i	761 i	0 i
Oregon State U.	276,955	7,241	43,111	151,779	1,247	4,727	1,035	5,713	3,634	52,731	5,737
Portland State U.	41,311	1,644	1,818	13,784	947	1,977	1,257	4,338	663	6,668	8,215

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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. Oregon	139,193	6,362	6,060	56,791	694	13,881	19,455	3,797	1,950	0	30,203
Private	14,770	72	333	6,427	364	1,593	532	673	51	0	4,725
Lewis and Clark C.	2,281	0	280	288	79	249	29	11	0	0	1,345
National U. of Natural Medicine	850	0	0	850	0	0	0	0	0	0	0
Pacific U.	4,690	0	0	3,186	46	299	0	236	0	0	923
Reed C.	5,132	72	0	1,629	229	866	464	422	0	0	1,450
Willamette U.	1,817	0	53	474	10	179	39	4	51	0	1,007
Pennsylvania	4,934,724	324,200	50,154	3,088,550	42,836	232,897	90,530	108,734	23,981	717,952	254,890
Public	2,429,460	90,819	45,349	1,502,954	19,813	136,045	59,519	44,639	13,325	446,408	70,589
Indiana U. Pennsylvania	6,180	165	33	1,890	4	364	490	303	0	0	2,931
Pennsylvania State U., Behrend	5,509	112	1,249	593	174	282	254	43	0	2,395	407
Pennsylvania State U., Harrisburg	2,938	2	22	1,536	4	0	444	258	0	386	286
Pennsylvania State U., University Park and Hershey Medical Center	970,544	73,737	31,930	291,733	14,090	89,035	29,685	27,130	0	378,667	34,537
Temple U.	299,778	6,327	2,108	223,136	2,547	17,979	11,427	7,649	548	8,279	19,778
U. Pittsburgh, Pittsburgh	1,135,416	10,455	9,952	983,251	2,891	27,919	16,966	4,070	12,637	56,681	10,594
U.S. Army War C.	4,662	0	0	0	0	0	0	4,662	0	0	0
West Chester U. Pennsylvania	4,433	21	55	815	103	466	253	524	140	0	2,056
Private	2,505,264	233,381	4,805	1,585,596	23,023	96,852	31,011	64,095	10,656	271,544	184,301
Arcadia U.	889	84	0	201	0	0	0	0	0	0	604
Bryn Mawr C.	8,987	356	151	709	599	1,119	327	1,542	0	0	4,184
Bucknell U.	4,476	114	10	674	110	816	129	126	663	1,494	340
Carnegie Mellon U.	402,376	196,380	364	14,273	12,464	21,109	10,631	12,392	6,330	112,597	15,836
Drexel U.	152,752	5,655	0	96,668	620	2,074	2,435	2,271	1,714	32,665	8,650
Duquesne U.	10,521	0	510	6,085	71	615	160	46	0	102	2,932
Franklin and Marshall C.	3,722	70	119	840	50	660	80	376	4	0	1,523
Haverford C.	3,835	39	145	647	28	2,342	77	146	0	0	411
Lafayette C.	1,015	76	5	94	24	286	88	85	0	201	156

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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
Lehigh U.	41,279	2,514	1,087	5,271	140	3,642	398	212	19	25,835	2,161
Mercyhurst U.	1,937	76	42	1,428	20	134	22	86	0	0	129
Philadelphia C. of Osteopathic Medicine	6,186	0	0	6,131	0	0	55	0	0	0	0
Saint Joseph's U.	2,922	192	0	547	8	137	349	165	0	0	1,524
Swarthmore C.	3,296	16	0	824	136	891	110	194	51	174	900
Thomas Jefferson U.	200,393	0	0	200,309	0	0	0	0	0	55	29
U. of the Sciences Philadelphia	4,005	0	0	3,319	0	686	0	0	0	0	0
U. Pennsylvania	1,631,950	27,396	1,929	1,243,966	8,637	59,246	15,250	46,021	1,172	88,937	139,396
Villanova U.	24,723	413	443	3,610	116	3,095	900	433	703	9,484	5,526
Rhode Island	425,750	15,447	61,344	170,252	10,908	20,821	12,086	35,288	28,751	34,402	36,451
Public	145,828	463	52,469	30,141	5	3,648	3,337	2,224	19,636	10,766	23,139
Naval War C.	5,542	0	0	0	0	0	0	794	0	0	4,748
Rhode Island C.	10,990	24	0	1,157	0	320	115	13	0	0	9,361
U. Rhode Island	129,296	439	52,469	28,984	5	3,328	3,222	1,417	19,636	10,766	9,030
Private	279,922	14,984	8,875	140,111	10,903	17,173	8,749	33,064	9,115	23,636	13,312
Brown U.	276,331	14,984	7,954	139,126	10,903	17,072	8,598	32,799	9,115	23,587	12,193
Providence C.	766	0	144	442	0	99	35	18	0	17	11
Rhode Island School of Design	971	0	0	0	0	0	0	247	0	0	724
Roger Williams U.	1,854	0	777	543	0	2	116	0	0	32	384
South Carolina	753,287	12,167	12,284	433,407	3,506	20,848	10,630	24,937	1,300	128,750	105,458
Public	749,841	11,941	12,180	432,544	3,506	19,605	10,452	24,825	1,300	128,685	104,803
C. Charleston	6,361	322	1,156	1,370	61	983	36	48	1,061	72	1,252
Citadel Military C. South Carolina	2,054	1,033	0	108	8	76	16	6	0	250	557
Clemson U.	237,485	7,040	0	66,524	1,870	10,139	1,587	6,298	0	90,038	53,989
Coastal Carolina U.	2,245	91	1,415	386	0	88	7	0	7	68	183
Medical U. South Carolina	277,761	0	0	277,761	0	0	0	0	0	0	0
South Carolina State U.	3,933	108	0	1,416	0	1,000	0	0	0	712	697
U. South Carolina, Aiken	2,042	0	0	657	3	9	3	0	0	1,322	48

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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. South Carolina, Columbia	215,374	3,311	9,609	84,069	1,558	6,928	8,759	17,831	154	36,223	46,932
Winthrop U.	2,586	36	0	253	6	382	44	642	78	0	1,145
Private	3,446	226	104	863	0	1,243	178	112	0	65	655
Claflin U.	1,015	173	26	515	0	129	0	107	0	65	0
Furman U.	2,431	53	78	348	0	1,114	178	5	0	0	655
South Dakota	100,534	3,629	838	55,763	838	8,098	1,750	2,088	0	22,248	5,282
Public	99,521	3,629	838	55,217	838	7,641	1,750	2,088	0	22,248	5,272
Black Hills State U.	1,280	295	0	806	0	103	0	0	0	0	76
Dakota State U.	3,416	3,080	37	80	0	58	0	0	0	0	161
South Dakota School of Mines and Technology	15,746	48	0	0	216	1,824	0	0	0	13,658	0
South Dakota State U.	51,542	32	801	38,411	433	1,943	600	1,772	0	7,161	389
U. South Dakota	27,537	174	0	15,920	189	3,713	1,150	316	0	1,429	4,646
Private	1,013	0	0	546	0	457	0	0	0	0	10
Augustana U.	1,013	0	0	546	0	457	0	0	0	0	10
Tennessee	1,629,860	43,262	12,113	1,070,936	7,480	60,496	30,216	30,792	23,443	241,299	109,823
Public	590,106	24,621	10,252	247,172	5,748	28,774	14,469	22,246	23,344	154,555	58,925
Austin Peay State U.	2,740	1	611	1,404	1	50	0	0	16	0	657
East Tennessee State U.	18,449	4	26	13,835	50	240	3,057	46	0	138	1,053
Middle Tennessee State U.	22,531	1,000	126	4,048	1,187	2,967	652	3,668	0	592	8,291
Tennessee State U.	26,880	454	314	21,260	116	435	259	509	0	3,062	471
Tennessee Technological U.	15,387	2,581	24	2,510	0	879	80	87	0	8,455	771
U. Memphis	67,092	7,957	4,089	9,537	1,250	3,372	5,431	7,319	1,702	9,464	16,971
U. Tennessee, Chattanooga	11,192	899	0	878	206	22	246	21	3,530	3,578	1,812
U. Tennessee, Health Science Center	109,562	0	0	107,620	0	0	0	0	1,255	687	0
U. Tennessee, Knoxville	316,273	11,725	5,062	86,080	2,938	20,809	4,744	10,596	16,841	128,579	28,899
Private	1,039,754	18,641	1,861	823,764	1,732	31,722	15,747	8,546	99	86,744	50,898
Fisk U.	4,320	415	0	1,601	415	1,645	60	7	0	0	177
Lipscomb U.	321	0	0	0	0	0	0	0	99	203	19

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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
Meharry Medical C.	15,840	0	0	15,840	0	0	0	0	0	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	1,019,273	18,226	1,861	806,323	1,317	30,077	15,687	8,539	0	86,541	50,702
Texas	6,849,522	182,650	229,801	4,220,827	73,412	357,228	88,631	139,231	46,532	1,095,207	416,003
Public	5,800,026	168,474	216,222	3,470,619	62,722	304,155	77,334	115,644	28,908	976,808	379,140
Lamar U.	4,734	72	24	423	83	115	0	0	0	2,437	1,580
Prairie View A&M U.	17,582	188	0	8,187	81	1,348	292	17	67	4,687	2,715
Sam Houston State U.	13,315	26	124	2,688	444	503	631	1,970	0	36	6,893
Stephen F. Austin State U.	3,204	14	121	2,042	109	29	2	203	0	0	684
Sul Ross State U.	2,143	0	22	1,654	1	0	0	466	0	0	0
Tarleton State U.	17,729	395	3,745	7,521	342	359	368	778	1,014	166	3,041
Texas A&M International U.	3,740	0	39	216	91	154	53	914	628	241	1,404
Texas A&M U., College Station and Health Science Center	1,147,720	19,178	106,932	487,219	6,729	56,029	6,546	28,965	10,943	385,656	39,523
Texas A&M U.-Commerce	3,827	61	0	587	34	995	191	99	0	64	1,796
Texas A&M U.-Corpus Christi	30,500	313	12,296	5,422	6	1,089	0	464	890	6,590	3,430
Texas A&M U.-Kingsville	23,578	12	0	16,283	0	213	51	0	99	4,622	2,298
Texas Southern U.	9,128	136	79	5,033	167	1,168	425	845	0	27	1,248
Texas State U.	72,510	1,200	7,338	11,708	1,057	3,421	272	4,437	1,759	9,321	31,997
Texas Tech U.	197,739	4,274	9,282	55,930	3,678	15,784	8,762	11,235	0	41,962	46,832
Texas Tech U., Health Sciences Center	41,583	0	0	40,567	0	0	0	0	0	0	1,016
Texas Tech U., Health Sciences Center, El Paso	11,360	0	0	10,555	0	0	0	0	0	0	805
Texas Woman's U.	4,943	11	0	3,053	1	7	695	83	0	0	1,093
U. Houston	202,536	4,352	9,292	34,322	3,497	52,230	13,601	2,404	1,590	56,555	24,693
U. Houston-Clear Lake	1,716	34	0	942	0	236	136	51	0	0	317
U. Houston-Downtown	1,828	194	52	25	19	382	0	128	5	189	834
U. North Texas, Denton	81,252	7,269	1,879	13,582	237	8,710	2,719	4,057	0	18,285	24,514

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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 Texas, Health Science Center	50,698	0	0	50,692	0	0	0	6	0	0	0
U. Texas Health Science Center, Houston	308,823	0	0	308,823	0	0	0	0	0	0	0
U. Texas Health Science Center, San Antonio	219,734	0	0	219,734	0	0	0	0	0	0	0
U. Texas Health Science Center, Tyler	27,928	0	0	27,928	0	0	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	1,124,971	0	0	1,056,727	18,914	17,572	17,939	13,819	0	0	0
U. Texas Medical Branch	185,759	0	0	184,500	0	0	0	0	0	1,259	0
U. Texas of the Permian Basin	3,504	0	0	983	0	30	23	380	60	792	1,236
U. Texas Rio Grande Valley	58,187	1,581	1,649	28,556	2,194	4,338	1,181	3,534	63	5,354	9,737
U. Texas Southwestern Medical Center	632,134	0	0	632,134	0	0	0	0	0	0	0
U. Texas, Arlington	126,477	6,865	867	19,246	2,350	16,864	1,568	79	0	58,154	20,484
U. Texas, Austin	779,348	87,595	54,009	148,471	17,349	85,250	10,293	23,660	2,806	279,730	70,185
U. Texas, Dallas	122,825	8,945	598	27,495	1,363	16,444	4,130	2,666	672	50,646	9,866
U. Texas, El Paso	109,410	6,234	3,757	23,452	2,412	9,092	4,407	4,964	5,975	26,599	22,518
U. Texas, San Antonio	145,362	19,203	3,429	26,419	1,554	11,547	2,835	9,393	2,153	21,499	47,330
U. Texas, Tyler	2,279	21	0	1,260	9	46	214	27	0	537	165
West Texas A&M U.	9,920	301	688	6,240	1	200	0	0	184	1,400	906
Private	1,049,496	14,176	13,579	750,208	10,690	53,073	11,297	23,587	17,624	118,399	36,863
Abilene Christian U.	4,597	0	0	101	0	4,209	21	11	25	45	185
Baylor C. of Medicine	716,976	0	0	716,976	0	0	0	0	0	0	0
Baylor U.	48,809	1,148	2,731	11,299	877	8,289	3,692	1,420	5,390	7,241	6,722
Rice U.	207,404	11,623	4,786	15,766	7,349	33,015	5,772	21,092	528	100,872	6,601
Southern Methodist U.	41,960	205	5,367	2,221	1,736	4,598	1,273	529	97	9,972	15,962
St. Edward's U.	9,527	1,050	478	1,445	645	1,101	20	50	0	0	4,738
Texas Christian U.	15,336	86	121	570	0	398	206	74	11,584	36	2,261
Trinity U.	2,905	64	96	461	41	1,165	313	411	0	47	307
U. of the Incarnate Word	1,982	0	0	1,369	42	298	0	0	0	186	87
Utah	993,876	37,414	50,023	486,668	4,911	41,909	12,968	9,598	0	315,719	34,666

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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	949,960	36,485	49,170	477,008	4,428	35,552	12,586	8,671	0	295,557	30,503
U. Utah	624,737	33,446	47,024	420,965	3,708	30,441	7,255	6,254	0	48,225	27,419
Utah State U.	325,223	3,039	2,146	56,043	720	5,111	5,331	2,417	0	247,332	3,084
Private	43,916	929	853	9,660	483	6,357	382	927	0	20,162	4,163
Brigham Young U., Provo	43,916	929	853	9,660	483	6,357	382	927	0	20,162	4,163
Vermont	198,247	3,219	3,662	143,639	3,215	5,002	3,875	6,405	4,303	11,914	13,013
Public	195,320	2,978	3,237	142,622	3,153	4,354	3,694	6,052	4,303	11,914	13,013
U. Vermont	195,320	2,978	3,237	142,622	3,153	4,354	3,694	6,052	4,303	11,914	13,013
Private	2,927	241	425	1,017	62	648	181	353	0	0	0
Middlebury C.	2,927	241	425	1,017	62	648	181	353	0	0	0
Virginia	1,942,260	91,800	64,147	949,659	15,710	80,256	28,981	96,499	3,885	421,657	189,666
Public	1,918,424	90,151	61,048	939,458	15,252	76,305	28,538	94,874	3,885	420,622	188,291
Christopher Newport U.	2,656	0	0	536	180	731	54	216	0	656	283
Eastern Virginia Medical School	19,415	0	0	19,415	0	0	0	0	0	0	0
George Mason U.	214,207	24,420	12,577	47,800	2,493	4,786	3,029	48,250	24	49,826	21,002
James Madison U.	14,687	845	628	3,372	345	1,825	1,345	150	3	174	6,000
Norfolk State U.	4,316	1,957	0	88	29	763	0	58	0	1,413	8
Old Dominion U.	62,332	2,693	3,775	15,041	1,097	7,021	1,381	1,659	0	25,811	3,854
U. of Mary Washington	1,123	82	54	155	5	100	0	40	0	0	687
U. Virginia's C. Wise	3,310	1,174	0	125	0	20	0	27	0	0	1,964
U. Virginia, Charlottesville	611,313	24,669	5,356	402,376	1,710	27,304	7,565	18,063	2,389	62,271	59,610
Virginia Commonwealth U.	364,096	6,270	278	233,486	698	3,396	10,533	4,959	0	32,233	72,243
Virginia Polytechnic Institute and State U.	542,045	25,466	3,534	207,204	8,107	24,374	4,169	11,574	89	246,965	10,563
Virginia State U.	10,123	0	8	7,191	217	0	95	0	0	1,273	1,339
William & Mary	68,801	2,575	34,838	2,669	371	5,985	367	9,878	1,380	0	10,738
Private	23,836	1,649	3,099	10,201	458	3,951	443	1,625	0	1,035	1,375
Edward Via C. of Osteopathic Medicine	6,629	0	0	6,629	0	0	0	0	0	0	0
Hampton U.	11,669	994	2,881	1,685	344	3,409	0	1,041	0	827	488
Liberty U.	937	0	0	497	0	0	0	17	0	208	215
Marymount U.	2,307	655	0	624	0	88	89	356	0	0	495

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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	2,294	0	218	766	114	454	354	211	0	0	177
Washington	1,881,044	36,260	146,004	1,226,993	6,976	88,226	17,810	32,309	2,312	206,997	117,157
Public	1,879,482	36,260	145,950	1,226,960	6,883	88,140	17,805	32,133	2,312	206,935	116,104
Central Washington U.	2,410	202	1,204	380	169	285	0	88	0	72	10
Eastern Washington U.	1,921	0	61	436	1	63	39	1,318	0	0	3
Northwest Indian C.	2,806 i	1 i	1,084 i	108 i	0 i	0 i	0 i	1,096 i	0 i	0 i	517 i
U. Washington, Bothell	8,311	188	405	668	0	681	0	0	0	304	6,065
U. Washington, Seattle	1,488,645	26,869	128,033	1,013,261	5,778	58,664	11,269	13,491	0	157,622	73,658
U. Washington, Tacoma	4,291	224	2,838	281	25	0	0	175	0	319	429
Washington State U.	357,648	8,393	8,946	211,107	535	26,256	5,000	15,147	1,216	48,031	33,017
Western Washington U.	13,450	383	3,379	719	375	2,191	1,497	818	1,096	587	2,405
Private	1,562	0	54	33	93	86	5	176	0	62	1,053
Seattle U.	1,562	0	54	33	93	86	5	176	0	62	1,053
West Virginia	231,347	2,260	4,369	150,871	579	12,726	2,307	3,684	1,063	42,330	11,158
Public	231,347	2,260	4,369	150,871	579	12,726	2,307	3,684	1,063	42,330	11,158
Marshall U.	23,620	79	404	18,296	0	295	3	3	0	2,475	2,065
West Virginia School of Osteopathic Medicine	1,255	0	0	1,245	0	0	0	0	0	0	10
West Virginia State U.	6,565	2	0	6,436	0	0	0	0	0	0	127
West Virginia U.	199,907	2,179	3,965	124,894	579	12,431	2,304	3,681	1,063	39,855	8,956
Wisconsin	1,771,499	25,578	73,951	1,162,752	8,471	104,625	16,378	71,933	46,532	161,124	100,155
Public	1,453,273	24,092	73,873	880,598	7,321	100,705	15,092	71,430	46,532	141,408	92,222
U. Wisconsin-Eau Claire	1,852	0	69	232	102	1,041	245	88	0	0	75
U. Wisconsin-Green Bay	1,879	56 i	82 i	1,065 i	15 i	112 i	31 i	64 i	0 i	327 i	127 i
U. Wisconsin-La Crosse	3,001	42	18	681	84	476	7	1,487	52	0	154
U. Wisconsin-Madison	1,380,075	23,678	65,814	861,558	6,394	87,587	10,944	63,043	44,157	131,709	85,191
U. Wisconsin-Milwaukee	55,664	193	7,385	9,109	707	10,970	3,800	6,531	2,309	8,577	6,083
U. Wisconsin-Oshkosh	1,656	0	126	740	0	292	41	75	0	158	224
U. Wisconsin-Platteville	1,144 i	37 i	0 i	514 i	19 i	82 i	20 i	93 i	14 i	171 i	194 i
U. Wisconsin-River Falls	999	86	0	645	0	84	4	0	0	18	162
U. Wisconsin-Stevens Point	4,401	0	368	3,716	0	61	0	7	0	241	8
U. Wisconsin-Superior	2,602	0	11	2,338	0	0	0	42	0	207	4

TABLE 71

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2021

(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	318,226	1,486	78	282,154	1,150	3,920	1,286	503	0	19,716	7,933
Marquette U.	37,087	1,439	0	12,236	1,110	3,903	1,223	431	0	9,027	7,718
Medical C. Wisconsin	276,850	0	0	269,290	0	0	0	0	0	7,560	0
Milwaukee School of Engineering	3,193	47	0	0	0	17	0	0	0	3,129	0
Northland C.	1,096 i	0 i	78 i	628 i	40 i	0 i	63 i	72 i	0 i	0 i	215 i
Wyoming	93,202	1,580	11,251	43,538	1,306	1,808	412	1,086	6,574	24,675	972
Public	93,202	1,580	11,251	43,538	1,306	1,808	412	1,086	6,574	24,675	972
U. Wyoming	93,202	1,580	11,251	43,538	1,306	1,808	412	1,086	6,574	24,675	972
American Samoa	815	0	0	0	0	0	0	815	0	0	0
Public	815	0	0	0	0	0	0	815	0	0	0
American Samoa Community C.	815	0	0	0	0	0	0	815	0	0	0
Guam	17,666	0	5,047	11,783	87	86	0	205	4	0	454
Public	17,666	0	5,047	11,783	87	86	0	205	4	0	454
U. Guam	17,666	0	5,047	11,783	87	86	0	205	4	0	454
Puerto Rico	123,707	604	5,705	76,665	279	7,240	1,872	1,449	5,113	13,583	11,197
Public	94,577	604	5,705	50,532	265	7,098	117	1,449	5,113	12,549	11,145
U. Puerto Rico, Cayey	1,881	0	0	563	0	127	0	171	1,020	0	0
U. Puerto Rico, Humacao	1,321	0	17	111	0	1,083	110	0	0	0	0
U. Puerto Rico, Mayaguez	18,368	0	2,014	1,729	87	1,002	0	93	0	11,397	2,046
U. Puerto Rico, Medical Sciences Campus	44,111	0	265	43,846	0	0	0	0	0	0	0
U. Puerto Rico, Rio Piedras	28,896	604	3,409	4,283	178	4,886	7	1,185	4,093	1,152	9,099
Private	29,130	0	0	26,133	14	142	1,755	0	0	1,034	52
Albizu U.	428	0	0	0	0	0	428	0	0	0	0
Ponce Health Sciences U.	23,297	0	0	22,009	0	0	1,288	0	0	0	0
U. Ana G. Mendez, Gurabo	1,574	0	0	293	14	142	39	0	0	1,034	52
U. Central del Caribe	3,831	0	0	3,831	0	0	0	0	0	0	0
Virgin Islands	15,231	90	6,508	6,045	439	1,069	0	248	0	832	0
Public	15,231	90	6,508	6,045	439	1,069	0	248	0	832	0
U. of the Virgin Islands	15,231	90	6,508	6,045	439	1,069	0	248	0	832	0

i = imputed.

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

^a 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.

^b 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.

^c 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.

^d Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.