

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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	83,496,348	2,639,334	3,185,089	48,230,138	769,722	5,551,281	1,322,793	2,805,477	915,083	13,214,359	4,863,072
Public	54,645,841	1,615,290	2,545,640	30,187,596	481,620	3,479,429	986,781	1,897,340	711,316	9,225,250	3,515,579
Private	28,850,507	1,024,044	639,449	18,042,542	288,102	2,071,852	336,012	908,137	203,767	3,989,109	1,347,493
Alabama	1,123,491	51,082	24,783	708,999	6,758	39,525	11,013	19,711	3,526	190,034	68,060
Public	1,102,929	50,681	24,783	700,572	5,542	39,362	11,013	14,908	3,346	184,662	68,060
Alabama A&M U.	12,840	441	0	7,546	123	932	256	437	0	2,354	751
Alabama State U.	2,577	0	0	2,577	0	0	0	0	0	0	0
Auburn U., Auburn	231,619	4,368	2,690	104,935	3,706	13,220	2,457	5,387	3,346	59,742	31,768
Jacksonville State U.	2,429	31	0	114	0	0	0	0	0	22	2,262
U. Alabama, Birmingham	607,863	827	870	533,536	876	5,961	4,933	803	0	47,555	12,502
U. Alabama, Huntsville	109,744	29,177	16,001	2,815	627	12,963	183	2,325	0	40,733	4,920
U. Alabama, Tuscaloosa	83,317	12,482	1,000	8,452	179	5,815	2,931	5,328	0	31,845	15,285
U. South Alabama	52,540	3,355	4,222	40,597	31	471	253	628	0	2,411	572
Private	20,562	401	0	8,427	1,216	163	0	4,803	180	5,372	0
Tuskegee U.	20,562	401	0	8,427	1,216	163	0	4,803	180	5,372	0
Alaska	169,296	1,743	76,247	36,176	507	13,550	177	3,395	17,820	16,315	3,366
Public	167,522	1,743	74,841	35,955	507	13,550	177	3,395	17,820	16,315	3,219
U. Alaska, Anchorage	21,724	685	5,186	8,863	0	16	177	2,233	2,102	1,393	1,069
U. Alaska, Fairbanks	144,457	1,058	69,346	26,416	507	13,534	0	1,162	15,362	14,922	2,150
U. Alaska, Southeast	1,341	0	309	676	0	0	0	0	356	0	0
Private	1,774	0	1,406	221	0	0	0	0	0	0	147
Alaska Pacific U.	1,774	0	1,406	221	0	0	0	0	0	0	147
Arizona	1,434,177	37,624	122,762	565,071	8,816	171,008	22,406	106,788	81,951	230,571	87,180
Public	1,433,947	37,624	122,762	564,841	8,816	171,008	22,406	106,788	81,951	230,571	87,180
Arizona State U.	639,637	21,871	83,703	101,129	6,367	26,050	18,986	86,570	75,517	152,395	67,049
Dine C.	1,126	0	0	1,074	0	0	0	44	0	8	0
Northern Arizona U.	58,914	3,383	7,984	36,245	0	5,643	750	724	421	2,613	1,151
U. Arizona	734,270	12,370	31,075	426,393	2,449	139,315	2,670	19,450	6,013	75,555	18,980
Private	230	0	0	230	0	0	0	0	0	0	0
Southwest C. of Naturopathic Medicine and Health Sciences	230	0	0	230	0	0	0	0	0	0	0
Arkansas	364,781	9,348	4,449	260,430	341	12,481	887	4,532	1,563	37,259	33,491
Public	364,781	9,348	4,449	260,430	341	12,481	887	4,532	1,563	37,259	33,491

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## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Arkansas State U., Jonesboro	8,945	332	0	6,659	3	988	23	36	312	553	39
U. Arkansas for Medical Sciences	153,135	0	0	153,135	0	0	0	0	0	0	0
U. Arkansas, Fayetteville	180,225	5,088	4,449	89,593	286	9,454	782	4,375	343	34,590	31,265
U. Arkansas, Little Rock	9,975	3,486	0	2,483	7	926	0	116	0	2,116	841
U. Arkansas, Pine Bluff	9,024	0	0	7,878	0	448	0	0	679	0	19
U. Central Arkansas	3,477	442	0	682	45	665	82	5	229	0	1,327
California	10,490,076	295,133	453,307	6,680,159	67,915	901,369	153,994	319,040	150,531	1,096,164	372,464
Public	7,420,422	129,193	379,128	4,696,226	58,868	591,605	120,569	229,867	148,007	835,125	231,834
California Polytechnic State U., San Luis Obispo	30,923	850	1,362	11,743	1,711	10,500	90	256	0	4,116	295
California State Polytechnic U., Pomona	6,099	225	295	2,983	42	693	0	0	0	1,085	776
California State U., Bakersfield	7,591	30	262	316	2,952	420	191	391	0	2,050	979
California State U., Channel Islands	1,572	2	0	942	341	57	10	68	97	0	55
California State U., Chico	3,232	14	140	1,089	61	186	52	453	0	567	670
California State U., Dominguez Hills	1,957	243	7	244	76	821	114	58	0	0	394
California State U., Fresno	8,599	46	125	4,404	214	1,157	103	700	0	1,492	358
California State U., Fullerton	7,173	191	420	2,843	29	1,180	92	212	441	609	1,156
California State U., Long Beach	18,664	74	125	5,335	621	4,363	1,660	723	335	4,223	1,205
California State U., Los Angeles	12,476	46	0	3,023	35	6,351	76	1,629	0	1,009	307
California State U., Maritime Academy	2,959	0	0	0	0	0	0	0	0	2,959	0
California State U., Monterey Bay	6,444	512	1,327	3,887	0	65	290	111	0	0	252
California State U., Northridge	21,095	189	1,832	10,053	786	3,225	419	695	845	714	2,337
California State U., Sacramento	23,544	123	909	1,324	41	344	298	7,331	2,402	7,507	3,265

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## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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., San Bernardino	16,062	1,831	118	2,115	681	1,219	2,708	534	779	2,434	3,643
California State U., San Marcos	10,595	654	0	1,950	711	901	1,041	990	2,402	797	1,149
California State U., Stanislaus	1,477	290	0	910	160	25	11	39	0	0	42
Humboldt State U.	15,076	87	1,490	7,570	0	201	3	308	0	5,232	185
Naval Postgraduate School	67,323	11,598	6,339	1,939	2,394	8,797	0	4,608	2,349	22,498	6,801
San Diego State U.	92,964	1,563	2,582	28,629	4,061	6,333	14,071	5,054	4,243	8,197	18,231
San Francisco State U.	31,888	840	4,297	12,886	1,023	3,088	1,329	3,629	1,291	1,284	2,221
San Jose State U.	44,309	8	12,777	1,133	0	2,041	20,152	247	1,596	1,864	4,491
U. California, Berkeley	802,931	12,125	9,429	239,459	8,177	130,895	17,955	61,374	72,048	200,122	51,347
U. California, Davis	804,282	7,562	29,166	593,628	4,162	26,589	2,740	27,167	7,893	92,277	13,098
U. California, Irvine	448,967	19,463	11,580	266,485	5,442	40,872	8,961	13,071	912	55,995	26,186
U. California, Los Angeles	1,306,376	15,867	38,106	925,447	13,118	60,067	17,044	58,050	26,039	95,797	56,841
U. California, Merced	44,890	157	2,916	10,943	2,299	7,307	1,284	3,065	788	13,852	2,279
U. California, Office of the President	67,702	1,485	0	53,460	0	7,973	0	0	4,784	0	0
U. California, Riverside	177,655	9,450	10,774	91,835	2,251	16,166	4,923	4,568	3,159	29,020	5,509
U. California, San Diego	1,353,763	28,302	180,626	819,167	5,466	85,322	18,932	20,178	13,273	172,919	9,578
U. California, San Francisco	1,595,098	0	0	1,529,156	0	65,942	0	0	0	0	0
U. California, Santa Barbara	243,778	10,965	35,554	34,842	1,711	65,929	5,299	7,450	952	67,395	13,681
U. California, Santa Cruz	142,958	4,401	26,570	26,486	303	32,576	721	6,908	1,379	39,111	4,503
Private	3,069,654	165,940	74,179	1,983,933	9,047	309,764	33,425	89,173	2,524	261,039	140,630
Azusa Pacific U.	5,598	12	0	995	42	179	742	701	10	50	2,867
Biola U.	1,155	41	0	748	12	82	13	39	0	162	58
California Institute of Technology	399,931	14,405	37,101	87,505	1,534	188,041	0	0	0	46,972	24,373
California Lutheran U.	1,143	76	0	310	56	91	39	77	21	0	473
Chapman U.	19,592	244	231	7,139	0	1,816	0	3,068	0	0	7,094
Charles R. Drew U. of Medicine and Science	13,739	0	0	13,739	0	0	0	0	0	0	0
Claremont Graduate U.	8,715	306	0	0	3	0	969	1,356	0	0	6,081
Claremont McKenna C.	6,214	0	173	338	74	144	65	4,997	132	0	291
Harvey Mudd C.	3,353	730	0	457	219	526	0	0	476	884	61

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## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Keck Graduate Institute	2,095	83	0	1,537	23	0	0	0	0	326	126
La Sierra U.	1,581	0	0	132	0	1	80	0	0	0	1,368
Loma Linda U.	24,408	0	0	24,405	0	0	3	0	0	0	0
Loyola Marymount U.	7,272	3	761	542	124	423	1,441	868	0	160	2,950
Marshall B. Ketchum U.	1,430	0	0	1,430	0	0	0	0	0	0	0
Mills C.	1,643	0	0	121	0	0	0	109	0	0	1,413
Occidental C.	2,458	254	817	739	38	424	178	8	0	0	0
Pepperdine U.	2,170	0	0	358	22	88	220	71	266	0	1,145
Pomona C.	2,985	195	236	296	270	519	143	580	0	0	746
Santa Clara U.	2,319	45	7	667	6	423	26	135	35	876	99
Scripps Research Institute	427,734	0	0	427,734	0	0	0	0	0	0	0
Stanford U.	1,204,116	24,575	17,624	837,068	4,836	95,084	20,091	24,038	788	134,585	45,427
Touro U.	3,543	0	0	3,543	0	0	0	0	0	0	0
U. of the Pacific	3,078	0	0	1,187	0	431	0	0	701	68	691
U. San Diego	6,036	0	185	357	274	1,300	223	614	13	776	2,294
U. San Francisco	2,712	27	194	456	14	83	39	300	82	0	1,517
U. Southern California	909,683	124,944	16,850	568,194	1,500	20,109	9,153	52,212	0	76,180	40,541
Western U. of Health Sciences	4,951	0	0	3,936	0	0	0	0	0	0	1,015
Colorado	1,622,011	24,305	218,098	799,176	9,002	139,513	25,148	39,222	6,361	278,329	82,857
Public	1,583,227	24,194	217,803	794,481	8,841	135,328	20,062	35,070	6,361	274,319	66,768
Colorado School of Mines	70,397	2,782	8,238	2,324	404	8,796	0	571	0	44,195	3,087
Colorado State U., Fort Collins	398,477	4,278	85,500	211,774	4,392	14,464	3,860	12,649	2,726	42,609	16,225
Colorado State U., Pueblo	3,107	43	0	1,693	11	6	70	7	0	178	1,099
Fort Lewis C.	1,460	0	22	640	0	1	0	37	0	760	0
U. Colorado Boulder	513,822	14,909	121,624	51,990	2,711	107,416	13,092	18,635	3,305	152,391	27,749
U. Colorado Colorado Springs	4,720	928	79	528	67	217	591	39	297	694	1,280
U. Colorado Denver and Anschutz Medical Campus	542,732	614	2,200	523,713	584	1,385	1,933	354	33	5,003	6,913
U. Northern Colorado	4,571	0	140	1,679	672	110	242	314	0	0	1,414
U.S. Air Force Academy	43,941	640	0	140	0	2,933	274	2,464	0	28,489	9,001
Private	38,784	111	295	4,695	161	4,185	5,086	4,152	0	4,010	16,089

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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 C.	2,233	0	109	307	38	102	84	413	0	0	1,180
U. Denver	36,551	111	186	4,388	123	4,083	5,002	3,739	0	4,010	14,909
Connecticut	1,387,319	11,335	18,816	1,082,560	7,171	84,589	33,550	28,777	2,705	83,228	34,588
Public	293,431	5,144	11,225	166,342	2,533	17,387	19,246	9,446	2,126	44,178	15,804
Central Connecticut State U.	1,381	16	61	112	24	118	12	504	0	119	415
Eastern Connecticut State U.	1,659	6	22	302	5	10	215	198	101	12	788
Southern Connecticut State U.	4,627	19	168	841	142	430	378	289	486	3	1,871
U. Connecticut	285,764	5,103	10,974	165,087	2,362	16,829	18,641	8,455	1,539	44,044	12,730
Private	1,093,888	6,191	7,591	916,218	4,638	67,202	14,304	19,331	579	39,050	18,784
Connecticut C.	1,894	56	0	348	0	902	0	588	0	0	0
Fairfield U.	1,279	0	0	146	43	442	0	0	13	60	575
Trinity C., Hartford	1,858	3	0	983	28	159	48	272	0	86	279
U. Hartford	1,528	7	0	38	183	0	0	0	0	1,300	0
U. New Haven	5,062	129	152	91	0	576	54	3,030	0	1,013	17
Wesleyan U.	9,958	0	444	1,810	553	2,876	991	1,040	0	0	2,244
Yale U.	1,072,309	5,996	6,995	912,802	3,831	62,247	13,211	14,401	566	36,591	15,669
Delaware	229,287	5,275	18,979	74,326	3,061	31,716	5,486	13,037	2,872	68,695	5,840
Public	229,287	5,275	18,979	74,326	3,061	31,716	5,486	13,037	2,872	68,695	5,840
Delaware State U.	23,017	1	633	13,791	834	4,306	0	169	530	2,248	505
U. Delaware	206,270	5,274	18,346	60,535	2,227	27,410	5,486	12,868	2,342	66,447	5,335
District of Columbia	664,872	16,509	2,469	363,916	3,906	43,045	11,163	89,165	12,126	33,408	89,165
Public	9,031	0	84	2,600	629	0	22	2,155	0	708	2,833
National Defense U.	4,231	0	0	0	0	0	0	2,155	0	0	2,076
U. of the District of Columbia	4,800	0	84	2,600	629	0	22	0	0	708	757
Private	655,841	16,509	2,385	361,316	3,277	43,045	11,141	87,010	12,126	32,700	86,332
American U.	71,053	2,122	482	1,854	1,319	5,167	2,564	20,802	5,221	0	31,522
Catholic U. of America	24,484	0	0	2,368	0	17,660	294	402	91	2,587	1,082
Gallaudet U.	5,382	645	71	1,311	3	26	1,117	82	0	0	2,127
George Washington U.	269,799	8,578	288	175,830	1,709	7,634	2,457	27,686	3,304	21,712	20,601
Georgetown U.	240,960	3,836	1,296	155,013	24	7,281	2,741	37,195	3,510	0	30,064
Howard U.	44,163	1,328	248	24,940	222	5,277	1,968	843	0	8,401	936

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Florida	2,685,834	88,923	148,110	1,389,298	17,785	175,255	82,697	104,088	15,286	345,548	318,844
Public	2,269,462	83,272	87,687	1,089,187	16,767	165,278	69,169	101,378	14,568	326,992	315,164
Florida A&M U.	42,470	1,268	5,282	21,837	0	3,488	248	5	0	4,477	5,865
Florida Atlantic U.	51,085	2,170	1,149	25,420	883	2,794	2,391	142	0	11,450	4,686
Florida Gulf Coast U.	5,907	145	877	153	17	138	0	81	0	59	4,437
Florida International U.	225,864	14,911	14,955	51,676	1,394	24,968	29,269	16,551	2,892	35,138	34,110
Florida Polytechnic U.	2,006	112	0	50	8	68	0	4	0	1,739	25
Florida State U.	329,205	11,557	18,343	61,515	6,202	61,706	15,866	18,519	7,596	56,352	71,549
U. Central Florida	225,085	29,865	4,486	34,043	3,144	30,415	5,230	13,274	3,158	62,258	39,212
U. Florida	928,639	13,569	17,186	689,605	2,346	26,341	10,208	13,849	69	107,598	47,868
U. North Florida	12,341	123	144	1,373	43	524	52	788	0	2,392	6,902
U. South Florida, Saint Petersburg	11,686	0	0	1,233	0	61	1,394	1	0	0	8,997
U. South Florida, Sarasota-Manatee	1,872	0	0	186	0	20	147	165	0	0	1,354
U. South Florida, Tampa	391,325	7,707	25,127	200,585	2,685	14,060	4,305	30,138	853	45,508	60,357
U. West Florida	41,977	1,845	138	1,511	45	695	59	7,861	0	21	29,802
Private	416,372	5,651	60,423	300,111	1,018	9,977	13,528	2,710	718	18,556	3,680
Bethune-Cookman U.	735	23	204	354	59	0	0	0	0	0	95
Embry-Riddle Aeronautical U.	12,478	0	818	92	33	2,332	0	394	264	8,374	171
Florida Institute of Technology	17,876	4,242	2,096	1,384	345	2,078	1,813	0	107	4,782	1,029
Nova Southeastern U.	24,567	246	8,878	14,236	0	0	552	22	343	0	290
U. Miami	360,716	1,140	48,427	284,045	581	5,567	11,163	2,294	4	5,400	2,095
Georgia	2,667,874	179,537	39,600	1,280,305	23,813	101,447	42,495	59,316	14,742	729,450	197,169
Public	1,781,166	175,590	38,363	506,410	20,318	72,544	36,256	57,049	13,085	686,982	174,569
Albany State U.	1,491	0	18	1,145	0	150	0	0	0	16	162
Augusta U.	96,502	24	0	96,123	23	48	0	178	0	0	106
Fort Valley State U.	4,563	101	0	4,321	36	104	0	0	0	0	1
Georgia Institute of Technology	960,167	164,657	12,260	33,854	8,058	38,229	3,550	5,773	0	664,695	29,091
Georgia Southern U.	11,166	134	774	2,331	57	692	14	308	4,067	1,257	1,532
Georgia State U.	195,572	3,562	1,268	70,211	2,045	17,836	7,333	23,970	0	0	69,347

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Kennesaw State U.	30,381	3,369	0	3,466	2,427	2,079	769	5,746	295	2,044	10,186
Savannah State U.	1,720	0	633	320	0	63	0	167	11	526	0
U. Georgia	477,536	3,731	23,281	294,353	7,666	13,275	24,590	20,857	8,712	18,444	62,627
U. North Georgia	2,068	12	129	286	6	68	0	50	0	0	1,517
Private	886,708	3,947	1,237	773,895	3,495	28,903	6,239	2,267	1,657	42,468	22,600
Clark Atlanta U.	9,048	405	0	6,360	128	1,265	0	136	0	214	540
Emory U.	794,928	2,427	1,237	727,296	2,715	23,150	5,399	2,005	0	9,614	21,085
Mercer U.	44,128	115	0	8,298	194	2,189	253	57	307	32,624	91
Morehouse C.	4,564	914	0	116	256	1,704	61	26	1,350	0	137
Morehouse School of Medicine	31,289	0	0	31,289	0	0	0	0	0	0	0
Spelman C.	2,751	86	0	536	202	595	526	43	0	16	747
Hawaii	301,419	10,173	94,652	135,850	1,421	27,449	279	5,526	6,192	17,099	2,778
Public	299,439	10,173	94,328	134,585	1,410	27,449	279	5,176	6,192	17,089	2,758
U. Hawaii, Hilo	6,864	0	842	4,212	944	164	0	348	308	0	46
U. Hawaii, Manoa	280,416	10,173	82,955	130,373	466	27,285	279	4,828	4,256	17,089	2,712
U. Hawaii, system office	12,159	0	10,531	0	0	0	0	0	1,628	0	0
Private	1,980	0	324	1,265	11	0	0	350	0	10	20
Hawaii Pacific U.	1,980	0	324	1,265	11	0	0	350	0	10	20
Idaho	167,903	3,484	10,906	85,152	795	9,097	1,084	6,619	7,078	33,224	10,464
Public	167,903	3,484	10,906	85,152	795	9,097	1,084	6,619	7,078	33,224	10,464
Boise State U.	39,824	1,454	3,536	9,858	582	3,358	293	4,232	527	11,688	4,296
Idaho State U.	14,972	792	1,447	3,638	0	3,709	656	279	0	4,039	412
U. Idaho	113,107	1,238	5,923	71,656	213	2,030	135	2,108	6,551	17,497	5,756
Illinois	2,709,733	156,937	22,996	1,636,524	20,326	234,511	39,005	61,864	48,954	356,709	131,907
Public	1,181,566	118,844	11,647	565,941	10,250	94,179	20,238	21,943	16,082	236,334	86,108
Chicago State U.	898	0	0	52	0	842	0	0	0	0	4
Illinois State U.	27,082	78	809	3,688	296	886	18	796	13	0	20,498
Northeastern Illinois U.	2,478	217	131	1,325	60	84	179	82	0	0	400
Northern Illinois U.	26,570	935	395	4,306	129	6,106	1,034	4,014	0	1,418	8,233
Southern Illinois U., Carbondale	41,729	545	1,354	32,432	31	1,619	27	1,249	1,567	2,905	0
Southern Illinois U., Edwardsville	18,088	80	1,383	10,357	263	586	131	315	50	2,348	2,575

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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. Illinois, Chicago	382,949	10,522	701	289,366	4,386	14,456	4,352	6,741	6,659	28,226	17,540
U. Illinois, Springfield	1,876	0	0	8	0	12	8	1,699	0	0	149
U. Illinois, Urbana-Champaign	677,523	106,430	6,868	222,994	5,071	69,531	14,473	6,846	7,639	201,028	36,643
Western Illinois U.	2,373	37	6	1,413	14	57	16	201	154	409	66
Private	1,528,167	38,093	11,349	1,070,583	10,076	140,332	18,767	39,921	32,872	120,375	45,799
Bradley U.	1,357	0	0	92	5	279	3	23	0	945	10
DePaul U.	6,144	1,661	37	479	0	229	2,812	23	0	0	903
Erikson Institute	2,279	0	0	0	0	0	0	0	0	0	2,279
Illinois Institute of Technology	34,334	3,005	246	11,618	211	3,609	0	254	36	15,241	114
Loyola U., Chicago	39,223	100	13	33,699	405	1,286	1,007	700	0	0	2,013
Midwestern U.	10,343	0	0	10,343	0	0	0	0	0	0	0
Northwestern U.	857,069	3,035	1,547	604,875	2,461	82,072	4,157	16,211	32,836	80,413	29,462
Rosalind Franklin U. of Medicine and Science	16,126	0	0	16,011	0	0	115	0	0	0	0
Rush U.	96,267	0	0	93,701	0	0	2,566	0	0	0	0
Toyota Technological Institute, Chicago	3,681	3,681	0	0	0	0	0	0	0	0	0
U. Chicago	459,171	26,606	9,370	299,549	6,987	52,656	7,744	21,578	0	23,773	10,908
Wheaton C., Wheaton	2,173	5	136	216	7	201	363	1,132	0	3	110
Indiana	1,661,312	81,847	15,521	760,707	11,448	118,002	30,444	78,702	34,843	379,796	150,002
Public	1,421,234	65,447	15,521	733,190	5,785	72,940	25,557	69,252	21,830	290,094	121,618
Ball State U.	12,145	1,236	57	2,880	140	993	338	1,381	0	0	5,120
Indiana State U.	1,682	0	199	852	27	155	13	3	0	1	432
Indiana U., Bloomington	668,157	36,195	7,220	470,583	1,773	31,099	14,744	44,681	12,889	11,265	37,708
Indiana U.-Purdue U., Indianapolis	67,635	3,920	926	20,263	610	2,396	4,165	13,123	6,017	6,730	9,485
Purdue U., Fort Wayne	2,416	0	0	680	50	101	97	24	47	221	1,196
Purdue U., Northwest	5,272	919	0	615	0	115	8	0	102	1,352	2,161
Purdue U., West Lafayette	663,927	23,177	7,119	237,317	3,185	38,081	6,192	10,040	2,775	270,525	65,516
Private	240,078	16,400	0	27,517	5,663	45,062	4,887	9,450	13,013	89,702	28,384
U. Notre Dame	240,078	16,400	0	27,517	5,663	45,062	4,887	9,450	13,013	89,702	28,384
Iowa	880,424	12,311	6,248	539,567	18,107	66,771	18,117	14,347	6,698	155,175	43,083



TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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	870,455	11,895	6,166	535,888	17,265	65,629	17,952	13,240	6,698	155,175	40,547
Iowa State U.	358,474	8,296	3,917	149,764	16,551	40,040	9,858	3,741	5,533	104,798	15,976
U. Iowa	508,353	3,599	2,088	385,909	710	24,300	8,086	7,575	1,165	50,377	24,544
U. Northern Iowa	3,628	0	161	215	4	1,289	8	1,924	0	0	27
Private	9,969	416	82	3,679	842	1,142	165	1,107	0	0	2,536
Des Moines U.	1,954	0	82	1,406	0	0	0	155	0	0	311
Drake U.	865	0	0	260	44	130	16	35	0	0	380
Grinnell C.	5,500	416	0	363	798	1,012	149	917	0	0	1,845
Palmer C. of Chiropractic, Davenport	1,650	0	0	1,650	0	0	0	0	0	0	0
Kansas	703,716	6,927	13,287	349,101	4,520	24,231	24,215	11,366	8,701	159,546	101,822
Public	703,716	6,927	13,287	349,101	4,520	24,231	24,215	11,366	8,701	159,546	101,822
Fort Hays State U.	1,143	0	331	371	0	155	0	20	0	0	266
Kansas State U.	218,622	2,923	2,337	133,246	3,416	14,413	6,005	4,159	8,306	27,439	16,378
Pittsburg State U.	2,513	0	0	393	0	30	0	100	0	1,990	0
U. Kansas	352,643	4,004	10,594	212,241	999	8,686	17,811	7,043	395	20,869	70,001
Wichita State U.	128,795	0	25	2,850	105	947	399	44	0	109,248	15,177
Kentucky	610,983	3,664	3,641	467,120	1,922	14,135	7,356	3,382	13,704	69,786	26,273
Public	610,983	3,664	3,641	467,120	1,922	14,135	7,356	3,382	13,704	69,786	26,273
Eastern Kentucky U.	1,125	0	7	885	50	0	13	20	0	0	150
Kentucky State U.	8,433	110	0	8,139	3	0	180	0	0	0	1
Morehead State U.	2,028	0	7	697	0	0	109	5	0	806	404
Murray State U.	3,710	0	120	3,136	62	358	0	0	0	0	34
Northern Kentucky U.	2,363	62	0	623	0	701	596	43	0	0	338
U. Kentucky	410,581	3,165	2,331	314,547	1,685	8,173	4,047	765	12,928	50,743	12,197
U. Louisville	173,462	309	197	135,671	67	3,058	1,662	2,342	776	17,640	11,740
Western Kentucky U.	9,281	18	979	3,422	55	1,845	749	207	0	597	1,409
Louisiana	778,357	25,378	42,289	470,493	7,529	44,426	9,649	14,066	15,872	98,786	49,869
Public	568,500	22,624	37,972	312,908	6,715	31,493	7,260	8,477	15,872	89,994	35,185
Grambling State U.	2,836	0	0	0	82	845	0	0	0	0	1,909
Louisiana State U., Baton Rouge	296,497	6,538	31,853	160,443	2,419	23,944	1,119	3,704	11,380	45,803	9,294

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Louisiana State U., Health Sciences Center, New Orleans	40,914	0	0	40,914	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	26,262	0	0	26,262	0	0	0	0	0	0	0
Louisiana Tech U.	26,143	1,856	77	2,565	726	1,843	474	706	0	11,513	6,383
Northwestern State U. Louisiana	2,058	332	0	261	19	0	6	657	0	0	783
Southeastern Louisiana U.	1,971	31	0	827	0	106	0	176	0	0	831
Southern U. and A&M C., Agricultural Research and Extension Center	5,448	0	0	5,448	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	4,492	172	0	430	39	1,167	0	0	0	1,905	779
U. Louisiana, Lafayette	144,187	11,650	3,957	73,146	3,226	1,369	5,326	406	4,124	28,397	12,586
U. Louisiana, Monroe	2,364	0	307	1,795	0	75	0	182	0	0	5
U. New Orleans	15,328	2,045	1,778	817	204	2,144	335	2,646	368	2,376	2,615
Private	209,857	2,754	4,317	157,585	814	12,933	2,389	5,589	0	8,792	14,684
Dillard U.	2,772	0	0	1,776	0	606	0	348	0	0	42
Tulane U.	196,933	2,312	4,317	152,554	814	6,448	2,342	5,241	0	8,416	14,489
Xavier U. Louisiana	10,152	442	0	3,255	0	5,879	47	0	0	376	153
Maine	151,249	2,760	27,263	48,603	1,248	8,958	1,141	6,405	12,648	32,749	9,474
Public	136,925	2,660	25,080	39,606	1,115	7,643	852	5,724	12,608	32,749	8,888
Maine Maritime Academy	358	0	0	0	0	0	0	0	0	358	0
U. Maine	129,913	1,377	25,039	38,713	1,115	7,628	852	2,293	12,236	32,368	8,292
U. Southern Maine	6,654	1,283	41	893	0	15	0	3,431	372	23	596
Private	14,324	100	2,183	8,997	133	1,315	289	681	40	0	586
Bates C.	2,135	47	119	845	30	531	154	308	40	0	61
Bowdoin C.	2,991	16	507	1,476	71	364	0	243	0	0	314
Colby C.	1,852	37	152	812	32	397	100	111	0	0	211
U. New England	7,346	0	1,405	5,864	0	23	35	19	0	0	0
Maryland	4,629,161	258,460	164,250	2,092,165	92,541	449,412	27,458	93,866	51,428	1,326,180	73,401
Public	1,711,725	58,687	121,665	1,038,764	6,667	125,793	22,463	84,943	4,653	178,845	69,245
Bowie State U.	1,911	508	0	122	0	246	0	0	0	0	1,035
Morgan State U.	13,253	222	3,955	4,197	328	34	62	3	0	3,990	462

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Salisbury U.	9,368	351	1,334	2,004	0	534	60	581	6	0	4,498
Towson U.	3,423	500	653	914	84	787	104	198	5	0	178
U. Baltimore	12,451	10	0	0	0	72	0	3,392	0	0	8,977
U. Maryland <sup>a</sup>	1,096,600	47,841	52,823	601,632	4,685	102,720	9,617	66,691	2,453	158,814	49,324
U. Maryland Center for Environmental Science	56,033	0	43,867	10,614	42	289	0	219	0	90	912
U. Maryland, Baltimore County	80,632	8,065	13,585	11,834	592	17,039	2,046	13,139	2,189	8,429	3,714
U. Maryland, Eastern Shore	7,133	0	4,369	721	0	1,278	0	720	0	40	5
U.S. Naval Academy	13,621	1,190	1,079	0	936	2,794	0	0	0	7,482	140
Uniformed Services U. of the Health Sciences	417,300	0	0	406,726	0	0	10,574	0	0	0	0
Private	2,917,436	199,773	42,585	1,053,401	85,874	323,619	4,995	8,923	46,775	1,147,335	4,156
Johns Hopkins U. <sup>b</sup>	2,917,436	199,773	42,585	1,053,401	85,874	323,619	4,995	8,923	46,775	1,147,335	4,156
Massachusetts	4,305,676	196,883	269,541	1,752,052	51,730	379,398	62,805	285,240	54,560	934,180	319,287
Public	683,650	38,525	25,345	369,972	5,596	54,717	15,692	25,377	4,023	91,904	52,499
U. Massachusetts, Amherst	223,177	27,702	6,569	67,652	3,636	31,623	9,195	6,118	1,645	49,745	19,292
U. Massachusetts, Boston	62,018	1,949	5,249	9,692	298	3,363	4,622	12,035	535	1,255	23,020
U. Massachusetts, central office	4,916	0	0	329	0	0	0	1,741	1,355	12	1,479
U. Massachusetts, Dartmouth	28,036	1,393	11,550	2,062	1,026	1,755	156	848	0	7,764	1,482
U. Massachusetts, Lowell	83,996	7,481	1,977	8,730	636	17,976	1,719	4,635	488	33,128	7,226
U. Massachusetts, Medical School	281,507	0	0	281,507	0	0	0	0	0	0	0
Private	3,622,026	158,358	244,196	1,382,080	46,134	324,681	47,113	259,863	50,537	842,276	266,788
Amherst C.	6,325	38	169	1,570	267	2,374	83	879	0	0	945
Babson C.	1,845	0	0	0	0	0	0	0	0	0	1,845
Boston C.	61,956	559	5,130	13,514	1,015	9,572	3,837	11,141	0	0	17,188
Boston U.	534,205	11,919	8,701	338,089	5,236	30,805	21,872	7,962	6,075	78,154	25,392
Brandeis U.	60,825	1,560	0	22,063	677	9,838	2,485	18,222	1,893	0	4,087
Clark U.	10,193	34	1,787	2,057	0	889	829	3,694	136	0	767
Emerson C.	1,145	450	0	241	0	0	0	95	0	0	359
Franklin W. Olin C. of Engineering	1,655	0	0	0	0	0	0	0	0	534	1,121

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Harvard U.	1,239,736	15,229	43,664	704,460	22,127	94,515	6,829	141,321	5,362	95,651	110,578
Massachusetts Institute of Technology	1,009,466	96,682	34,015	143,017	11,774	136,601	517	46,532	20,026	450,915	69,387
MGH Institute of Health Professions	4,130	0	0	3,494	0	0	0	0	0	0	636
Mount Holyoke C.	2,979	273	0	142	370	1,037	572	295	0	0	290
New England C. of Optometry	1,223	0	0	1,223	0	0	0	0	0	0	0
Northeastern U.	183,998	19,362	4,603	31,181	780	19,445	7,738	11,540	0	79,836	9,513
Smith C.	6,041	427	117	2,368	296	499	521	549	0	553	711
Tufts U.	213,285	3,777	482	114,635	1,811	11,377	1,739	14,063	17,045	31,630	16,726
Wellesley C.	8,810	632	154	1,515	109	1,426	0	1,240	0	0	3,734
Williams C.	5,188	115	205	720	419	1,312	91	873	0	0	1,453
Woods Hole Oceanographic Institution	229,143	0	145,169	0	0	0	0	0	0	83,974	0
Worcester Polytechnic Institute	39,878	7,301	0	1,791	1,253	4,991	0	1,457	0	21,029	2,056
Michigan	2,891,267	37,651	41,501	1,595,533	35,090	249,140	40,922	227,482	30,522	454,260	179,166
Public	2,814,714	37,333	41,339	1,527,824	34,967	246,038	40,506	226,560	30,511	451,511	178,125
Central Michigan U.	17,102	2	661	8,603	183	2,908	413	215	2,063	559	1,495
Eastern Michigan U.	7,175	201	399	2,322	143	491	94	752	0	304	2,469
Grand Valley State U.	6,592	14	2,818	1,338	299	276	47	964	48	400	388
Michigan State U.	725,708	19,013	5,244	353,934	11,394	151,159	17,834	27,037	16,765	79,638	43,690
Michigan Technological U.	80,443	2,158	14,388	4,323	2,085	3,722	455	1,386	901	47,435	3,590
Northern Michigan U.	1,520	0	155	684	1	24	183	0	0	0	473
Oakland U.	18,002	847	0	7,041	73	4,650	467	312	0	3,836	776
Saginaw Valley State U.	2,818	8	11	1,381	617	300	9	124	61	239	68
U. Michigan, Ann Arbor	1,675,805	12,983	15,705	955,653	18,478	61,017	19,157	191,336	5,104	291,887	104,485
U. Michigan, Dearborn	8,813	0	0	313	228	217	82	245	175	6,832	721
U. Michigan, Flint	1,448	14	0	213	0	40	0	3	112	152	914
Wayne State U.	244,217	1,881	412	186,531	1,393	20,013	1,584	3,342	5,282	14,634	9,145
Western Michigan U. and Homer Stryker M.D. School of Medicine	25,071	212	1,546	5,488	73	1,221	181	844	0	5,595	9,911
Private	76,553	318	162	67,709	123	3,102	416	922	11	2,749	1,041

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Albion C.	1,040	17	53	118	16	380	56	102	11	0	287
Andrews U.	1,126	0	64	35	3	184	0	715	0	47	78
Calvin U.	1,577	255	37	519	32	462	0	105	0	111	56
Hope C.	2,745	0	0	477	10	1,843	236	0	0	128	51
Kettering U.	1,765	15	0	26	7	211	0	0	0	1,354	152
Lawrence Technological U.	1,352	31	0	0	53	9	0	0	0	882	377
U. Detroit Mercy	5,210	0	8	4,796	2	13	124	0	0	227	40
Van Andel Research Institute	61,738	0	0	61,738	0	0	0	0	0	0	0
Minnesota	1,060,927	23,215	20,292	707,774	10,675	49,209	34,826	37,206	2,560	125,375	49,795
Public	1,048,543	22,669	18,118	705,809	10,255	46,801	34,458	36,167	2,560	124,968	46,738
Minnesota State U., Mankato	3,392	40	32	645	0	127	0	349	0	1,472	727
St. Cloud State U.	3,275	116	13	887	0	12	7	278	1	121	1,840
U. Minnesota, Duluth	27,530	283	3,466	19,286	236	1,065	1	123	0	2,399	671
U. Minnesota, Morris	1,234	3	216	53	197	24	2	139	0	0	600
U. Minnesota, Twin Cities	1,013,112	22,227	14,391	684,938	9,822	45,573	34,448	35,278	2,559	120,976	42,900
Private	12,384	546	2,174	1,965	420	2,408	368	1,039	0	407	3,057
Augsburg U.	991	0	0	34	0	436	26	0	0	0	495
C. of Saint Benedict	1,126	i 53	i 12	i 157	i 18	i 176	i 28	i 68	i 0	i 0	i 614
Carleton C.	4,388	291	1,607	532	216	723	145	432	0	0	442
Macalester C.	1,808	119	427	343	23	435	41	194	0	0	226
Saint John's U., Collegeville	1,191	i 26	i 11	i 140	i 17	i 139	i 25	i 202	i 0	i 0	i 631
St. Olaf C.	1,010	22	102	288	109	139	37	139	0	0	174
U. of St. Thomas (MN)	1,870	35	15	471	37	360	66	4	0	407	475
Mississippi	535,774	8,538	44,416	244,687	2,710	51,619	2,689	57,603	4,849	76,072	42,591
Public	532,394	8,538	44,416	243,243	2,710	50,770	2,689	57,603	4,849	76,072	41,504
Alcorn State U.	14,435	0	0	8,664	0	0	0	5,428	0	343	0
Jackson State U.	18,160	567	1,794	1,902	68	9,159	69	325	819	3,354	103
Mississippi State U.	264,526	6,944	10,928	118,479	1,310	11,312	1,480	41,008	4,030	60,183	8,852
U. Mississippi	158,809	584	1,726	103,882	1,236	14,617	1,140	5,469	0	8,821	21,334
U. Southern Mississippi	76,464	443	29,968	10,316	96	15,682	0	5,373	0	3,371	11,215
Private	3,380	0	0	1,444	0	849	0	0	0	0	1,087
Tougaloo C.	3,380	0	0	1,444	0	849	0	0	0	0	1,087

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Missouri	1,325,463	14,466	9,900	1,070,390	2,800	42,033	13,780	8,284	3,395	115,813	44,602
Public	371,628	8,307	2,943	218,827	2,105	14,797	7,318	6,753	403	90,379	19,796
Lincoln U., Jefferson City	4,581	0	0	4,089	234	71	0	112	75	0	0
Missouri State U.	5,910	2	34	1,646	0	386	0	367	0	3,234	241
Missouri U. of Science and Technology	41,939	2,349	1,247	601	421	2,762	101	132	192	33,895	239
U. Missouri, Columbia	278,793	4,499	1,261	193,977	1,225	6,932	6,111	2,480	136	46,142	16,030
U. Missouri, Kansas City	26,708	1,434	401	12,252	14	2,010	789	878	0	7,087	1,843
U. Missouri, Saint Louis	13,697	23	0	6,262	211	2,636	317	2,784	0	21	1,443
Private	953,835	6,159	6,957	851,563	695	27,236	6,462	1,531	2,992	25,434	24,806
A. T. Still U.	644	0	0	644	0	0	0	0	0	0	0
Saint Louis U.	66,103	655	1,281	54,582	56	2,384	333	272	0	2,344	4,196
Washington U., Saint Louis	887,088	5,504	5,676	796,337	639	24,852	6,129	1,259	2,992	23,090	20,610
Montana	273,459	2,718	19,229	135,943	2,821	23,385	1,075	17,357	6,625	40,949	23,357
Public	272,207	2,718	19,229	135,730	2,821	22,832	1,075	17,357	6,625	40,949	22,871
Montana State U., Bozeman	154,811	1,427	5,618	72,765	1,565	15,021	235	582	6,625	36,521	14,452
Montana Technological U.	12,731	0	7,235	1,006	0	62	0	0	0	4,428	0
U. Montana, Missoula	104,665	1,291	6,376	61,959	1,256	7,749	840	16,775	0	0	8,419
Private	1,252	0	0	213	0	553	0	0	0	0	486
Salish Kootenai C.	1,252	0	0	213	0	553	0	0	0	0	486
Nebraska	572,488	16,867	4,185	391,699	5,964	28,844	11,795	16,886	1,420	56,612	38,216
Public	547,356	15,840	3,646	373,587	5,727	27,032	11,492	15,751	1,420	56,612	36,249
U. Nebraska, central administration	18,860	3,634	0	12,205	0	111	0	60	0	1,687	1,163
U. Nebraska, Kearney	2,919	0	0	1,810	4	652	53	76	41	0	283
U. Nebraska, Lincoln	316,820	8,919	3,639	161,097	5,390	26,100	10,968	13,140	1,359	53,932	32,276
U. Nebraska, Medical Center	194,455	0	0	194,455	0	0	0	0	0	0	0
U. Nebraska, Omaha	14,302	3,287	7	4,020	333	169	471	2,475	20	993	2,527
Private	25,132	1,027	539	18,112	237	1,812	303	1,135	0	0	1,967
Creighton U.	24,039	846	539	17,527	237	1,691	303	1,135	0	0	1,761
Doane U.	1,093	181	0	585	0	121	0	0	0	0	206
Nevada	282,480	9,481	43,080	102,650	4,080	19,252	8,411	13,457	1,676	39,304	41,089
Public	278,564	9,481	43,080	98,734	4,080	19,252	8,411	13,457	1,676	39,304	41,089
Desert Research Institute	26,991	7	23,991	2,993	0	0	0	0	0	0	0

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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. Nevada, Las Vegas	99,445	1,662	4,526	31,434	1,471	9,099	2,982	6,344	523	15,736	25,668
U. Nevada, Reno	152,128	7,812	14,563	64,307	2,609	10,153	5,429	7,113	1,153	23,568	15,421
Private	3,916	0	0	3,916	0	0	0	0	0	0	0
Roseman U. of Health Sciences	3,916	0	0	3,916	0	0	0	0	0	0	0
New Hampshire	492,183	16,636	52,547	246,333	5,440	22,369	12,761	26,549	5,038	54,979	49,531
Public	150,041	883	48,188	50,980	291	3,612	1,869	8,621	374	23,869	11,354
Keene State C.	1,061	0	39	549	0	91	0	0	374	8	0
U. New Hampshire	148,980	883	48,149	50,431	291	3,521	1,869	8,621	0	23,861	11,354
Private	342,142	15,753	4,359	195,353	5,149	18,757	10,892	17,928	4,664	31,110	38,177
Dartmouth C. and Dartmouth Hitchcock Medical Center	342,142	15,753	4,359	195,353	5,149	18,757	10,892	17,928	4,664	31,110	38,177
New Jersey	1,331,199	43,949	55,316	598,052	26,332	139,058	18,286	69,940	3,000	270,675	106,591
Public	900,187	20,558	26,062	501,091	14,366	48,719	11,804	10,985	2,701	179,843	84,058
Montclair State U.	10,225	235	1,424	1,897	621	134	262	182	0	0	5,470
New Jersey City U.	5,961	160	55	675	15	60	200	0	0	0	4,796
New Jersey Institute of Technology	161,232	10,619	0	27,910	4,400	15,338	0	0	79	78,455	24,431
Rowan U.	22,892	391	451	11,107	37	1,190	291	66	0	8,447	912
Rutgers, State U. New Jersey, Camden	3,211	1,169	0	32	0	80	46	562	0	0	1,322
Rutgers, State U. New Jersey, New Brunswick	657,249	5,881	18,036	447,552	9,036	29,660	7,700	7,779	2,613	92,937	36,055
Rutgers, State U. New Jersey, Newark	26,661	1,970	3,313	10,800	0	1,978	2,169	1,052	9	0	5,370
Stockton U.	2,634	0	2,484	78	0	15	0	49	0	4	4
William Paterson U.	10,122	133	299	1,040	257	264	1,136	1,295	0	0	5,698
Private	431,012	23,391	29,254	96,961	11,966	90,339	6,482	58,955	299	90,832	22,533
Monmouth U.	1,294	0	1,082	164	0	18	0	30	0	0	0
Princeton U.	385,739	19,725	24,755	95,882	11,703	88,235	6,482	58,918	0	65,000	15,039
Rider U.	228	0	52	72	26	41	0	7	0	0	30
Seton Hall U.	7,056	0	0	810	0	0	0	0	0	0	6,246
Stevens Institute of Technology	36,695	3,666	3,365	33	237	2,045	0	0	299	25,832	1,218

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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 Mexico	365,769	7,523	18,028	189,834	1,834	34,653	7,206	11,360	9,543	77,885	7,903
Public	365,769	7,523	18,028	189,834	1,834	34,653	7,206	11,360	9,543	77,885	7,903
New Mexico Institute of Mining and Technology	24,616	1,169	6,791	395	155	1,970	0	0	0	14,043	93
New Mexico State U.	101,457	2,705	3,908	40,821	41	25,535	268	653	210	25,892	1,424
U. New Mexico	239,696	3,649	7,329	148,618	1,638	7,148	6,938	10,707	9,333	37,950	6,386
New York	7,075,577	153,903	151,232	4,604,502	46,456	464,476	118,240	173,350	33,140	969,562	360,716
Public	1,610,093	45,298	56,234	633,673	14,519	104,315	49,724	55,089	25,327	544,642	81,272
CUNY, Advanced Science Research Center	8,310	0	3	3,935	0	2,983	0	0	0	1,379	10
CUNY, Baruch C.	2,387	0	79	396	175	375	133	728	101	0	400
CUNY, Brooklyn C.	7,064	346	690	1,838	176	1,307	1,391	261	451	0	604
CUNY, C. Staten Island	3,986	63	0	923	470	1,657	389	14	0	1	469
CUNY, City C.	52,738	990	2,459	8,010	579	9,935	953	42	0	28,337	1,433
CUNY, Graduate Center	5,399	0	2	51	34	353	633	3,090	0	0	1,236
CUNY, Graduate School of Public Health and Health Policy	9,521	0	0	7,882	0	0	1,639	0	0	0	0
CUNY, Hunter C.	37,478	2,001	1,147	7,408	95	4,739	15,915	1,468	0	0	4,705
CUNY, John Jay C. of Criminal Justice	12,295	74	0	254	5	222	2,082	349	0	0	9,309
CUNY, Lehman C.	4,690	0	0	205	26	1,624	0	739	0	0	2,096
CUNY, Medgar Evers C.	1,397	0	0	883	61	362	0	77	0	0	14
CUNY, New York City C. of Technology	2,711	210	209	631	694	350	0	4	0	478	135
CUNY, Queens C.	18,391	155	427	10,992	302	1,446	1,327	696	2,298	0	748
CUNY, system office	2,619	338	148	30	0	0	0	0	196	1,001	906
CUNY, York C.	1,621	61	85	377	17	883	48	12	0	91	47
SUNY, Binghamton U.	104,297	7,176	2,026	12,165	2,468	14,920	11,007	13,250	0	30,434	10,851
SUNY, Buffalo State	2,124	0	1,050	645	0	19	35	260	0	0	115
SUNY, C. Brockport	1,390	0	396	846	7	48	5	70	0	0	18
SUNY, C. of Environmental Science and Forestry	29,137	4	554	26,495	0	257	0	330	0	1,339	158
SUNY, C. of Optometry	2,968	0	0	2,968	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	1,729	0	850	398	0	376	25	0	0	0	80



TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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, Downstate Medical Center	36,015	0	0	36,015	0	0	0	0	0	0	0
SUNY, Geneseo	2,139	0	298	233	106	902	262	157	0	0	181
SUNY, Oswego	1,781	27	52	359	10	388	8	48	556	231	102
SUNY, Polytechnic Institute	352,889	0	0	1,995	0	0	0	0	0	350,793	101
SUNY, Stony Brook U.	260,813	9,726	26,282	117,953	6,652	41,679	4,703	2,775	18,646	28,632	3,765
SUNY, U. Albany	181,531	6,541	15,833	101,768	1,443	7,811	4,389	20,704	37	3,087	19,918
SUNY, U. Buffalo	413,817	15,899	3,533	249,349	1,083	11,644	4,752	9,937	3,042	95,040	19,538
SUNY, Upstate Medical U.	38,091	0	0	38,091	0	0	0	0	0	0	0
U.S. Military Academy	10,765	1,687	111	578	116	35	28	78	0	3,799	4,333
Private	5,465,484	108,605	94,998	3,970,829	31,937	360,161	68,516	118,261	7,813	424,920	279,444
Albany C. of Pharmacy and Health Sciences	3,383	0	0	3,381	0	0	0	0	0	0	2
Albany Medical C.	23,028	0	0	23,028	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	298,824	0	0	298,824	0	0	0	0	0	0	0
Alfred U.	5,153	0	0	108	0	13	0	0	0	5,032	0
Barnard C.	4,010	1	9	660	74	1,004	1,359	432	0	0	471
Canisius C.	950	0	0	0	0	191	0	0	752	0	7
Clarkson U.	17,147	506	4	1,163	1,046	2,498	22	83	0	10,889	936
Cold Spring Harbor Laboratory	126,773	0	0	126,773	0	0	0	0	0	0	0
Colgate U.	3,756	362	511	726	50	769	270	440	0	0	628
Columbia U. in the City of New York	1,003,615	24,725	75,900	727,779	5,725	35,369	4,552	19,050	0	72,596	37,919
Cornell U.	1,144,534	29,330	6,531	789,230	3,341	122,968	12,682	29,183	0	110,545	40,724
Fordham U.	20,287	635	0	1,819	242	868	2,095	964	0	0	13,664
Hamilton C.	2,050	8	72	180	12	198	155	216	0	0	1,209
Hobart and William Smith Colleges	1,919	0	118	1,335	80	263	11	39	0	0	73
Hofstra U.	1,744	58	20	472	12	48	19	103	0	521	491
Icahn School of Medicine at Mount Sinai	722,241	0	0	722,241	0	0	0	0	0	0	0
Long Island U.	5,113	0	40	4,561	0	198	45	2	0	12	255
Manhattan C.	1,190	0	14	91	0	55	0	0	0	809	221

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	3,769	0	0	3,769	0	0	0	0	0	0	0
New School	13,421	0	800	23	0	0	1,726	3,802	0	2,828	4,242
New York Institute of Technology	5,820	181	0	4,479	0	0	0	0	0	1,045	115
New York Medical C.	19,398	0	0	19,398	0	0	0	0	0	0	0
New York U.	934,720	14,607	434	630,246	12,002	26,098	30,002	31,003	1,146	99,711	89,471
Niagara U.	2,057	0	0	94	4	78	2	393	0	0	1,486
Pace U.	3,855	775	0	913	0	199	10	52	0	435	1,471
Rensselaer Polytechnic Institute	103,739	11,282	1,931	5,384	2,258	15,038	3,151	451	0	59,831	4,413
Rochester Institute of Technology	58,175	6,328	0	903	1,750	18,059	22	2,623	0	20,264	8,226
Rockefeller U.	351,089	8,037	974	332,899	1,602	7,577	0	0	0	0	0
Skidmore C.	3,012	1	762	1,221	20	334	423	163	0	0	88
St. John's U., New York	2,352	128	0	1,763	59	273	55	31	0	0	43
Syracuse U.	154,366	5,571	3,913	12,095	3,001	15,894	4,426	12,954	413	25,412	70,687
Teachers C., Columbia U.	24,865	1,948	0	4,651	0	0	1,760	15,875	0	0	631
U. Rochester	393,960	3,657	2,765	248,086	213	111,388	5,573	219	5,502	14,872	1,685
Union C., Schenectady	1,740	312	189	80	18	609	56	72	0	118	286
Vassar C.	1,009	153	11	34	428	172	100	111	0	0	0
Yeshiva U.	2,420	0	0	2,420	0	0	0	0	0	0	0
North Carolina	3,388,360	58,449	61,755	2,430,220	36,651	102,345	68,191	160,847	14,530	342,104	113,268
Public	1,916,440	52,038	50,588	1,180,054	25,689	77,591	55,414	124,958	14,340	241,253	94,515
Appalachian State U.	3,268	198	583	1,663	41	262	52	226	30	5	208
East Carolina U.	55,611	554	3,684	35,936	11	2,177	1,039	1,976	220	2,015	7,999
Fayetteville State U.	4,695	220	250	1,236	167	200	0	151	0	0	2,471
North Carolina Agricultural and Technical State U.	37,339	1,861	129	16,756	872	1,889	24	0	0	11,766	4,042
North Carolina Central U.	16,227	0	303	8,401	0	2,774	0	662	0	1,212	2,875
North Carolina State U.	541,100	14,614	21,691	244,235	20,296	22,753	3,071	8,403	13,471	174,590	17,976
U. North Carolina, Asheville	4,602	128	128	1,271	6	680	0	1	2	10	2,376

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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	1,153,773	23,146	16,922	846,630	3,049	37,055	46,808	108,095	124	31,825	40,119
U. North Carolina, Charlotte	47,187	10,468	1,111	5,534	902	4,389	635	3,658	0	16,000	4,490
U. North Carolina, general administration	4,154	723	100	311	0	632	0	0	149	2,239	0
U. North Carolina, Greensboro	26,325	16	0	8,554	210	3,521	3,471	728	0	0	9,825
U. North Carolina, Wilmington	17,515	110	5,193	7,782	83	597	314	390	344	1,226	1,476
Western Carolina U.	2,633	0	494	1,095	7	342	0	215	0	365	115
Winston-Salem State U.	2,011	0	0	650	45	320	0	453	0	0	543
Private	1,471,920	6,411	11,167	1,250,166	10,962	24,754	12,777	35,889	190	100,851	18,753
Davidson C.	1,777	0	0	525	74	352	351	247	0	0	228
Duke U.	1,226,517	5,845	11,077	1,018,199	10,319	21,176	11,226	34,532	175	100,379	13,589
Elon U.	2,545	90	0	367	161	89	159	209	0	87	1,383
Johnson C. Smith U.	2,148	395	90	483	0	66	0	0	0	0	1,114
Wake Forest U.	238,933	81	0	230,592	408	3,071	1,041	901	15	385	2,439
North Dakota	263,217	4,615	7,427	132,985	1,097	10,510	4,212	11,135	7,793	66,790	16,653
Public	263,217	4,615	7,427	132,985	1,097	10,510	4,212	11,135	7,793	66,790	16,653
North Dakota State U.	152,381	2,556	714	104,204	714	6,903	3,077	9,396	6,129	12,030	6,658
U. North Dakota	110,836	2,059	6,713	28,781	383	3,607	1,135	1,739	1,664	54,760	9,995
Ohio	2,499,431	38,682	24,702	1,519,526	14,087	113,903	24,229	50,813	40,071	556,819	116,599
Public	1,888,931	34,208	22,184	1,138,973	13,391	100,403	22,295	47,130	40,015	358,575	111,757
Air Force Institute of Technology	34,016	2,733	967	0	1,313	8,478	0	0	0	20,525	0
Bowling Green State U.	17,026	295	1,112	1,268	341	2,362	991	3,683	0	60	6,914
Central State U.	3,766	8	163	2,923	44	63	0	0	225	340	0
Cleveland State U.	80,077	0	0	47,567	823	1,372	644	6,170	0	17,278	6,223
Kent State U.	47,188	1,766	942	8,388	1,637	7,744	4,410	5,031	619	2,330	14,321
Miami U.	22,380	775	1,031	11,143	376	1,046	1,368	471	0	3,070	3,100
Northeast Ohio Medical U.	18,016	0	6	17,625	0	0	0	88	288	0	9
Ohio State U.	929,250	23,393	9,030	550,461	6,415	46,223	7,861	17,776	37,725	177,518	52,848
Ohio U.	53,735	712	1,618	15,739	101	4,501	2,031	1,377	0	19,502	8,154
U. Akron	30,020	7	192	1,928	178	9,643	338	154	0	16,650	930

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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. Cincinnati	529,796	1,516	1,143	437,494	1,949	9,641	1,746	12,083	936	46,889	16,399
U. Toledo	55,006	0	5,659	27,889	49	7,438	107	257	0	11,256	2,351
Wright State U.	64,208	2,986	312	16,448	153	1,757	2,736	1	222	39,164	429
Youngstown State U.	4,447	17	9	100	12	135	63	39	0	3,993	79
Private	610,500	4,474	2,518	380,553	696	13,500	1,934	3,683	56	198,244	4,842
C. Wooster	1,758	0	120	509	63	568	21	283	22	0	172
Case Western Reserve U.	438,994	50	591	377,671	558	10,756	1,812	3,170	16	41,228	3,142
Heidelberg U.	1,237	0	1,222	15	0	0	0	0	0	0	0
Kenyon C.	1,092	0	0	569	31	444	0	24	0	0	24
Oberlin C.	2,076	179	157	971	44	485	58	97	0	0	85
U. Dayton	165,343	4,245	428	818	0	1,247	43	109	18	157,016	1,419
Oklahoma	533,785	8,073	74,561	244,039	5,226	25,143	11,335	23,006	6,703	74,587	61,112
Public	515,137	5,647	74,449	243,119	5,190	24,558	10,539	22,914	6,703	61,374	60,644
Langston U.	10,719	0	0	10,287	2	37	0	0	0	0	393
Oklahoma State U., Center for Health Sciences	5,408	89	0	4,815	0	0	126	0	0	309	69
Oklahoma State U., Stillwater	184,276	3,673	2,613	76,701	4,585	8,458	9,018	5,425	6,601	32,947	34,255
U. Central Oklahoma	5,682	133	0	367	126	701	0	0	102	0	4,253
U. Oklahoma, Norman and Health Science Center	302,679	1,752	71,836	148,621	477	15,362	1,395	17,363	0	26,569	19,304
U. Oklahoma, Tulsa	6,373	0	0	2,328	0	0	0	126	0	1,549	2,370
Private	18,648	2,426	112	920	36	585	796	92	0	13,213	468
U. Tulsa	18,648	2,426	112	920	36	585	796	92	0	13,213	468
Oregon	863,844	15,518	47,626	602,806	4,572	26,320	19,024	15,013	8,732	72,445	51,788
Public	844,961	15,358	47,315	593,603	4,014	23,931	18,519	14,358	8,658	72,052	47,153
Oregon Health and Science U.	415,629	0	0	403,495	0	0	0	0	0	12,134	0
Oregon Institute of Technology	4,793	60	324	2,031	99	0	143	0	0	630	1,506
Oregon State U.	263,830	8,869	40,030	136,589	2,074	6,247	1,318	5,550	7,671	49,587	5,895
Portland State U.	50,045	1,370	2,090	15,844	933	2,911	1,400	5,018	0	9,160	11,319
U. Oregon	110,664	5,059	4,871	35,644	908	14,773	15,658	3,790	987	541	28,433
Private	18,883	160	311	9,203	558	2,389	505	655	74	393	4,635

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Lewis and Clark C.	2,750	32	294	584	100	268	87	5	0	0	1,380
National U. of Natural Medicine	1,245	0	0	1,245	0	0	0	0	0	0	0
Pacific U.	8,753	0	0	5,294	57	962	0	294	0	0	2,146
Reed C.	3,240	128	0	1,588	370	623	209	322	0	0	0
U. Portland	942	0	3	179	20	173	102	21	0	393	51
Willamette U.	1,953	0	14	313	11	363	107	13	74	0	1,058
Pennsylvania	4,646,721	290,483	69,906	2,858,845	53,720	245,463	94,958	109,734	24,926	647,312	251,374
Public	2,337,046	84,487	62,856	1,423,809	31,247	146,848	62,797	39,246	11,565	406,328	67,863
Indiana U. Pennsylvania	8,119	10	497	1,474	20	269	428	939	0	0	4,482
Pennsylvania State U., Behrend	3,414	138	1,154	124	94	151	46	53	0	1,508	146
Pennsylvania State U., Harrisburg	2,805	382	11	187	32	38	58	1,477	0	312	308
Pennsylvania State U., University Park and Hershey Medical Center	949,679	69,638	46,390	266,143	25,057	99,485	38,984	27,943	0	350,391	25,648
Temple U.	284,301	4,560	1,559	218,527	1,262	16,205	8,832	3,214	1,016	8,042	21,084
U. Pittsburgh, Pittsburgh	1,080,951	9,734	13,185	935,756	4,442	30,196	14,154	4,662	10,542	46,075	12,205
U.S. Army War C.	1,000	0	0	0	0	0	0	0	0	0	1,000
West Chester U. Pennsylvania	6,777	25	60	1,598	340	504	295	958	7	0	2,990
Private	2,309,675	205,996	7,050	1,435,036	22,473	98,615	32,161	70,488	13,361	240,984	183,511
Allegheny C.	632	1	18	39	0	110	0	3	158	0	303
Bryn Mawr C.	9,846	332	185	829	460	1,057	628	1,480	0	0	4,875
Bucknell U.	5,625	200	94	608	418	538	152	119	300	1,632	1,564
Carnegie Mellon U.	359,720	171,110	994	15,366	12,385	19,508	10,601	14,307	6,589	95,496	13,364
Dickinson C.	1,037	5	31	307	6	71	41	15	0	0	561
Drexel U.	149,481	4,298	0	93,762	497	2,793	3,555	3,028	1,644	31,330	8,574
Duquesne U.	16,947	0	84	9,595	255	2,581	115	21	0	525	3,771
Franklin and Marshall C.	5,041	90	710	815	255	722	197	297	6	0	1,949
Gettysburg C.	1,664	1	209	435	3	301	108	468	0	0	139
Haverford C.	3,752	86	229	582	63	2,039	147	178	0	0	428
Lafayette C.	1,554	124	0	118	119	379	123	54	0	184	453
Lehigh U.	38,185	2,164	1,191	4,448	187	3,396	448	86	47	23,447	2,771

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Mercyhurst U.	1,801	65	41	1,315	19	129	23	81	0	0	128
Philadelphia C. of Osteopathic Medicine	3,162	0	0	3,162	0	0	0	0	0	0	0
Saint Joseph's U.	2,851	42	0	477	17	508	472	172	0	0	1,163
Salus U.	854	0	0	854	0	0	0	0	0	0	0
Swarthmore C.	4,203	12	0	755	171	946	85	339	173	314	1,408
Thomas Jefferson U.	170,458	0	0	170,458	0	0	0	0	0	0	0
U. of the Sciences Philadelphia	3,740	0	0	3,096	0	644	0	0	0	0	0
U. Pennsylvania	1,506,285	26,968	2,455	1,125,634	7,432	60,150	14,222	49,088	4,444	78,444	137,448
Villanova U.	22,837	498	809	2,381	186	2,743	1,244	752	0	9,612	4,612
Rhode Island	390,575	15,475	55,689	156,977	13,238	22,832	8,661	28,205	22,732	34,157	32,609
Public	129,700	702	50,513	25,155	0	3,326	1,534	3,130	13,925	10,632	20,783
Naval War C.	5,060	0	0	0	0	0	0	679	0	0	4,381
Rhode Island C.	9,480	15	0	592	0	132	51	19	0	0	8,671
U. Rhode Island	115,160	687	50,513	24,563	0	3,194	1,483	2,432	13,925	10,632	7,731
Private	260,875	14,773	5,176	131,822	13,238	19,506	7,127	25,075	8,807	23,525	11,826
Brown U.	256,954	14,727	4,310	130,419	13,225	19,259	6,801	24,887	8,807	23,448	11,071
Providence C.	1,042	0	166	589	0	93	122	5	0	41	26
Rhode Island School of Design	1,027	46	0	500	0	0	0	145	0	0	336
Roger Williams U.	1,852	0	700	314	13	154	204	38	0	36	393
South Carolina	742,924	8,836	4,210	433,727	5,378	22,569	8,814	19,790	1,052	111,066	127,482
Public	738,281	8,091	3,778	432,807	5,299	20,704	8,632	19,777	1,052	110,669	127,472
C. Charleston	7,610	280	1,212	1,366	146	923	65	162	1,052	0	2,404
Clemson U.	218,760	5,193	0	62,391	3,052	11,401	460	5,991	0	76,739	53,533
Coastal Carolina U.	2,042	82	1,573	305	0	0	82	0	0	0	0
Medical U. South Carolina	295,600	0	0	295,600	0	0	0	0	0	0	0
South Carolina State U.	3,659	100	0	1,318	0	930	0	0	0	662	649
U. South Carolina, Aiken	2,481	0	0	625	0	0	0	0	0	1,520	336
U. South Carolina, Columbia	205,940	2,436	988	70,689	2,100	7,007	8,025	13,440	0	31,748	69,507
Winthrop U.	2,189	0	5	513	1	443	0	184	0	0	1,043
Private	4,643	745	432	920	79	1,865	182	13	0	397	10
Benedict C.	1,269	276	157	158	52	374	0	0	0	252	0

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Claffin U.	1,746	447	259	350	27	508	0	0	0	145	10
Furman U.	1,628	22	16	412	0	983	182	13	0	0	0
South Dakota	118,377	4,061	2,020	73,656	810	10,382	805	1,973	0	19,985	4,685
Public	117,536	4,061	2,020	73,173	810	10,024	805	1,973	0	19,985	4,685
Black Hills State U.	2,031	0	0	847	0	407	0	0	0	0	777
Dakota State U.	3,710	3,694	0	7	0	5	0	0	0	0	4
South Dakota School of Mines and Technology	12,973	4	0	0	141	1,602	0	0	0	11,226	0
South Dakota State U.	66,794	0	1,933	53,751	488	2,951	223	1,600	0	5,516	332
U. South Dakota	32,028	363	87	18,568	181	5,059	582	373	0	3,243	3,572
Private	841	0	0	483	0	358	0	0	0	0	0
Augustana U.	841	0	0	483	0	358	0	0	0	0	0
Tennessee	1,337,211	28,024	11,854	827,371	6,114	59,578	28,845	25,420	20,137	237,574	92,294
Public	537,240	27,938	10,268	222,626	4,903	30,627	13,355	18,559	20,137	143,234	45,593
Austin Peay State U.	2,285	11	14	912	0	232	0	0	0	0	1,116
East Tennessee State U.	14,197	0	6	10,721	19	368	2,381	406	0	2	294
Middle Tennessee State U.	7,673	323	500	1,679	169	417	0	1,325	2	59	3,199
Tennessee State U.	15,236	328	0	11,924	98	452	364	3	0	1,207	860
Tennessee Technological U.	13,801	2,416	74	2,025	0	1,289	12	24	0	7,267	694
U. Memphis	58,700	9,482	4,117	10,521	892	2,157	6,101	4,052	439	9,464	11,475
U. Tennessee, Chattanooga	9,280	634	0	853	335	35	115	88	2,817	2,460	1,943
U. Tennessee, Health Science Center	96,979	0	0	95,852	0	0	0	0	517	610	0
U. Tennessee, Knoxville	247,693	14,744	5,557	24,065	3,390	25,677	4,382	12,661	14,722	116,528	25,967
U. Tennessee, Knoxville, Institute of Agriculture	71,396	0	0	64,074	0	0	0	0	1,640	5,637	45
Private	799,971	86	1,586	604,745	1,211	28,951	15,490	6,861	0	94,340	46,701
Fisk U.	4,748	86	0	4,520	0	0	0	0	0	0	142
Meharry Medical C.	18,286	0	0	18,286	0	0	0	0	0	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	776,937	0	1,586	581,939	1,211	28,951	15,490	6,861	0	94,340	46,559
Texas	5,967,210	156,701	235,128	3,607,009	77,271	332,344	84,121	132,173	21,727	950,051	370,685
Public	5,035,122	141,704	219,780	2,928,519	64,385	284,170	77,297	106,263	17,248	859,602	336,154
Lamar U.	4,848	582	0	685	132	188	0	0	0	1,609	1,652

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Prairie View A&M U.	18,018	293	57	8,105	7	1,082	851	0	22	5,121	2,480
Sam Houston State U.	9,445	49	86	2,297	368	550	308	2,465	36	21	3,265
Stephen F. Austin State U.	3,679	0	292	1,992	642	85	2	213	0	15	438
Sul Ross State U.	2,352	0	0	1,578	0	0	0	774	0	0	0
Tarleton State U.	13,171	10	3,504	6,594	192	303	65	145	692	61	1,605
Texas A&M International U.	6,068	2	96	3,569	8	4	100	17	208	30	2,034
Texas A&M U., College Station and Health Science Center	952,156	21,800	113,459	351,403	8,700	55,920	3,538	30,686	4,496	321,373	40,781
Texas A&M U.-Central Texas	428	0	0	0	0	182	0	68	0	70	108
Texas A&M U.-Commerce	3,403	64	0	1,040	13	883	334	66	0	28	975
Texas A&M U.-Corpus Christi	32,944	1,008	13,494	5,669	47	1,362	12	77	434	7,193	3,648
Texas A&M U.-Kingsville	22,268	0	942	16,431	0	196	113	0	28	1,827	2,731
Texas Southern U.	4,893	250	140	2,695	144	211	0	0	1,323	130	0
Texas State U.	64,554	2,096	7,349	11,304	908	2,741	232	4,217	1,982	4,611	29,114
Texas Tech U.	193,923	4,427	8,213	52,335	3,590	14,408	9,824	10,463	0	44,057	46,606
Texas Tech U., Health Sciences Center	44,072	0	0	42,959	0	0	0	0	0	0	1,113
Texas Tech U., Health Sciences Center, El Paso	11,883	0	0	11,649	0	0	0	0	0	0	234
Texas Woman's U.	4,477	15	0	2,121	68	155	587	50	0	0	1,481
U. Houston	195,398	4,819	10,516	39,727	3,083	43,378	12,218	2,714	648	51,806	26,489
U. Houston-Clear Lake	1,370	37	0	279	0	520	209	63	0	5	257
U. Houston-Downtown	2,216	71	27	38	75	77	0	143	8	42	1,735
U. North Texas, Denton	78,691	5,879	1,444	12,644	1,409	7,586	4,375	5,413	0	15,773	24,168
U. North Texas, Health Science Center	50,124	0	0	49,099	0	0	0	1,025	0	0	0
U. Texas Health Science Center, Houston	271,525	0	0	271,525	0	0	0	0	0	0	0
U. Texas Health Science Center, San Antonio	188,483	0	0	188,483	0	0	0	0	0	0	0
U. Texas Health Science Center, Tyler	16,538	0	0	16,538	0	0	0	0	0	0	0



TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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 M. D. Anderson Cancer Center	969,496	0	0	902,580	20,358	19,017	17,247	10,294	0	0	0
U. Texas Medical Branch	175,372	0	0	173,776	0	0	0	0	0	1,596	0
U. Texas Rio Grande Valley	52,016	824	2,049	25,619	1,881	4,499	635	3,575	59	3,573	9,302
U. Texas Southwestern Medical Center	496,697	0	0	496,697	0	0	0	0	0	0	0
U. Texas, Arlington	123,207	7,144	1,266	18,010	2,276	15,576	1,660	160	0	54,121	22,994
U. Texas, Austin	696,111	66,125	51,155	117,716	17,222	81,357	12,544	20,467	3,555	249,788	76,182
U. Texas, Dallas	126,661	8,136	907	35,971	1,063	15,515	751	2,480	71	48,666	13,101
U. Texas, El Paso	106,809	5,851	3,168	30,643	1,466	7,587	10,393	3,951	2,560	26,586	14,604
U. Texas, San Antonio	84,326	12,132	1,178	22,455	586	10,617	1,262	6,674	887	19,928	8,607
U. Texas, Tyler	2,063	32	4	1,378	95	44	37	45	0	394	34
West Texas A&M U.	5,437	58	434	2,915	52	127	0	18	239	1,178	416
Private	932,088	14,997	15,348	678,490	12,886	48,174	6,824	25,910	4,479	90,449	34,531
Baylor C. of Medicine	651,920	0	0	651,920	0	0	0	0	0	0	0
Baylor U.	33,304	581	2,685	5,641	1,104	6,891	906	1,920	2,843	3,720	7,013
Rice U.	182,564	11,939	4,341	13,966	9,477	34,759	3,821	20,720	804	77,299	5,438
Southern Methodist U.	42,562	1,412	6,954	1,533	1,486	3,591	1,093	1,595	632	9,207	15,059
St. Edward's U.	9,650	1,010	1,077	2,210	470	456	24	366	200	0	3,837
Texas Christian U.	6,552	26	178	1,932	169	690	632	591	0	73	2,261
Trinity U.	3,736	29	113	452	53	1,369	348	718	0	103	551
U. of the Incarnate Word	1,800	0	0	836	127	418	0	0	0	47	372
Utah	924,632	44,585	29,565	414,563	5,072	66,741	22,706	6,419	990	271,824	62,167
Public	885,050	43,007	28,998	405,442	4,458	60,887	22,218	5,367	990	257,823	55,860
U. Utah	601,133	40,967	27,848	343,744	3,722	54,131	18,431	3,776	617	55,478	52,419
Utah State U.	283,917	2,040	1,150	61,698	736	6,756	3,787	1,591	373	202,345	3,441
Private	39,582	1,578	567	9,121	614	5,854	488	1,052	0	14,001	6,307
Brigham Young U., Provo	39,582	1,578	567	9,121	614	5,854	488	1,052	0	14,001	6,307
Vermont	138,716	3,098	1,042	112,965	637	3,963	2,109	1,493	5,359	7,864	186
Public	135,859	2,829	772	111,873	612	3,235	1,773	1,356	5,359	7,864	186
U. Vermont	135,859	2,829	772	111,873	612	3,235	1,773	1,356	5,359	7,864	186
Private	2,857	269	270	1,092	25	728	336	137	0	0	0
Middlebury C.	1,657	269	270	317	0	459	205	137	0	0	0
Saint Michael's C.	1,200	0	0	775	25	269	131	0	0	0	0

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Virginia	1,814,048	87,772	64,343	850,536	19,752	84,911	29,734	98,166	2,205	427,733	148,896
Public	1,788,655	87,174	60,515	839,730	19,423	80,362	29,492	95,970	2,205	426,373	147,411
Christopher Newport U.	1,961	0	0	584	0	758	44	0	0	575	0
Eastern Virginia Medical School	27,064	0	0	27,064	0	0	0	0	0	0	0
George Mason U.	186,267	31,219	11,598	16,438	1,981	6,295	3,143	57,278	0	36,101	22,214
James Madison U.	8,726	661	1,003	1,146	312	1,295	146	61	31	313	3,758
Norfolk State U.	8,050	5,010	0	108	58	819	0	0	0	1,940	115
Old Dominion U.	67,425	2,530	4,907	14,668	7,507	7,547	1,126	2,279	0	19,294	7,567
U. of Mary Washington	1,315	1	17	100	12	48	12	90	0	0	1,035
U. Virginia, Charlottesville	613,938	20,017	5,352	385,793	1,698	26,742	9,245	13,457	1,803	83,072	66,759
Virginia Commonwealth U.	255,648	1,286	871	185,744	890	3,469	11,299	1,251	0	26,072	24,766
Virginia Polytechnic Institute and State U.	541,969	23,536	4,185	198,424	5,031	26,835	4,286	11,273	371	258,213	9,815
Virginia State U.	11,457	0	157	6,886	1,333	0	0	54	0	793	2,234
William & Mary	64,835	2,914	32,425	2,775	601	6,554	191	10,227	0	0	9,148
Private	25,393	598	3,828	10,806	329	4,549	242	2,196	0	1,360	1,485
Edward Via C. of Osteopathic Medicine	7,225	0	0	7,225	0	0	0	0	0	0	0
Hampton U.	13,605	448	3,779	1,777	217	4,044	25	1,604	0	1,049	662
Liberty U.	1,780	150	0	867	22	55	11	13	0	311	351
U. Richmond	2,783	0	49	937	90	450	206	579	0	0	472
Washington	1,829,550	35,784	142,922	1,163,710	7,605	94,006	13,988	33,526	1,412	198,709	137,888
Public	1,826,244	35,737	142,833	1,162,998	7,399	93,389	13,976	33,325	1,412	198,426	136,749
Central Washington U.	3,223	5	2,110	517	154	229	1	119	0	70	18
Eastern Washington U.	2,024	0	66	564	2	152	47	1,126	0	14	53
Northwest Indian C.	2,659	0	1,043	104	0	0	0	1,054	0	0	458
U. Washington, Bothell	7,950	738	462	653	20	256	0	35	31	161	5,594
U. Washington, Seattle	1,425,601	24,969	123,301	954,062	6,102	58,166	9,552	16,437	2	155,076	77,934
U. Washington, Tacoma	3,471	555	1,827	597	0	0	0	36	37	0	419
Washington State U.	369,333	9,377	10,202	205,564	622	33,403	3,338	13,701	667	42,273	50,186
Western Washington U.	11,983	93	3,822	937	499	1,183	1,038	817	675	832	2,087
Private	3,306	47	89	712	206	617	12	201	0	283	1,139
Seattle U.	2,223	35	37	248	206	157	0	162	0	283	1,095

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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
Whitman C.	1,083	12	52	464	0	460	12	39	0	0	44
West Virginia	212,963	1,228	10,213	125,597	655	15,258	2,041	2,397	1,064	43,708	10,802
Public	212,963	1,228	10,213	125,597	655	15,258	2,041	2,397	1,064	43,708	10,802
Marshall U.	19,622	78	164	15,738	0	684	0	1	0	1,158	1,799
West Virginia State U.	5,829	0	0	5,424	30	235	0	40	0	34	66
West Virginia U.	187,512	1,150	10,049	104,435	625	14,339	2,041	2,356	1,064	42,516	8,937
Wisconsin	1,652,475	21,197	65,606	1,080,663	10,358	90,675	18,162	55,126	51,216	158,475	100,997
Public	1,365,920	21,019	65,606	830,398	8,495	88,089	16,791	54,342	51,216	137,888	92,076
U. Wisconsin-Eau Claire	1,530	0	8	145	105	930	203	77	0	0	62
U. Wisconsin-Green Bay	2,083	58	92	1,173	18	127	36	79	0	353	147
U. Wisconsin-La Crosse	2,692	84	31	807	107	298	26	945	57	0	337
U. Wisconsin-Madison	1,297,331	20,372	58,701	814,119	6,405	75,231	12,498	48,019	47,292	126,587	88,107
U. Wisconsin-Milwaukee	53,773	337	6,442	8,637	1,794	11,076	3,909	4,973	3,867	9,915	2,823
U. Wisconsin-Oshkosh	1,713	58	91	953	16	124	34	52	0	300	85
U. Wisconsin-Platteville	1,084	18	70	389	20	99	26	62	0	145	255
U. Wisconsin-Stevens Point	3,464	92	146	1,956	30	202	59	135	0	584	260
U. Wisconsin-Superior	2,250	0	25	2,219	0	2	0	0	0	4	0
Private	286,555	178	0	250,265	1,863	2,586	1,371	784	0	20,587	8,921
Marquette U.	37,777	178	0	13,155	1,863	2,517	1,371	784	0	8,988	8,921
Medical C. Wisconsin	244,752	0	0	236,978	0	0	0	0	0	7,774	0
Milwaukee School of Engineering	4,026	0	0	132	0	69	0	0	0	3,825	0
Wyoming	80,353	342	6,755	41,934	1,499	1,825	236	477	7,310	19,550	425
Public	80,353	342	6,755	41,934	1,499	1,825	236	477	7,310	19,550	425
U. Wyoming	80,353	342	6,755	41,934	1,499	1,825	236	477	7,310	19,550	425
American Samoa	860	0	0	860	0	0	0	0	0	0	0
Public	860	0	0	860	0	0	0	0	0	0	0
American Samoa Community C.	860	0	0	860	0	0	0	0	0	0	0
Guam	12,249	0	2,753	8,964	28	0	0	256	0	0	248
Public	12,249	0	2,753	8,964	28	0	0	256	0	0	248
U. Guam	12,249	0	2,753	8,964	28	0	0	256	0	0	248
Puerto Rico	121,074	1,517	8,242	68,326	348	8,572	62	1,579	5,195	19,828	7,405
Public	99,044	654	8,242	52,336	348	7,291	62	1,579	5,195	16,483	6,854

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and R&amp;D field: FY 2019

(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. Puerto Rico, Cayey	1,870	0	0	802	i 0	140	0	150	i 778	0	0
U. Puerto Rico, Humacao	1,195	0	0	295	0	852	48	0	0	0	0
U. Puerto Rico, Mayaguez	26,877	0	5,676	2,526	176	1,172	0	96	0	16,446	785
U. Puerto Rico, Medical Sciences Campus	45,014	0	29	44,985	0	0	0	0	0	0	0
U. Puerto Rico, Rio Piedras	24,088	654	2,537	3,728	172	5,127	14	1,333	4,417	37	6,069
Private	22,030	863	0	15,990	0	1,281	0	0	0	3,345	551
Polytechnic U. Puerto Rico	2,118	863	0	0	0	0	0	0	0	1,021	234
Ponce Health Sciences U.	11,390	0	0	11,390	0	0	0	0	0	0	0
U. Ana G. Mendez, Cupey	624	0	0	209	0	220	0	0	0	0	195
U. Ana G. Mendez, Gurabo	3,945	0	0	438	0	1,061	0	0	0	2,324	122
U. Central del Caribe	3,953	0	0	3,953	0	0	0	0	0	0	0
Virgin Islands	12,236	309	830	9,712	740	15	0	1	0	61	568
Public	12,236	309	830	9,712	740	15	0	1	0	61	568
U. of the Virgin Islands	12,236	309	830	9,712	740	15	0	1	0	61	568

i = imputed.

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

<sup>a</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>b</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,725,018 thousand in total R&D expenditures in FY 2019.

## Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2019.