

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
United States	83,496,348	44,455,265	4,495,452	21,109,703	5,053,576	5,683,937	2,698,415
Public	54,645,841	27,348,977	4,078,722	15,029,337	2,993,391	3,242,305	1,953,109
Private	28,850,507	17,106,288	416,730	6,080,366	2,060,185	2,441,632	745,306
Alabama	1,123,491	633,801	60,902	308,252	71,364	34,790	14,382
Public	1,102,929	618,976	58,329	305,599	71,364	34,790	13,871
Alabama A&M U.	12,840	8,277	4,405	19	139	0	0
Alabama State U.	2,577	2,577	0	0	0	0	0
Auburn U., Auburn	231,619	64,333	31,171	117,941	6,232	1,413	10,529
Jacksonville State U.	2,429	2,312	0	100	17	0	0
U. Alabama, Birmingham	607,863	398,403	11,434	106,085	60,048	31,893	0
U. Alabama, Huntsville	109,744	85,211	1,378	21,663	1,069	301	122
U. Alabama, Tuscaloosa	83,317	37,916	9,791	30,801	2,799	977	1,033
U. South Alabama	52,540	19,947	150	28,990	1,060	206	2,187
Private	20,562	14,825	2,573	2,653	0	0	511
Tuskegee U.	20,562	14,825	2,573	2,653	0	0	511
Alaska	169,296	108,869	4,946	43,575	5,112	2,392	4,402
Public	167,522	108,418	4,941	43,575	3,800	2,392	4,396
U. Alaska, Anchorage	21,724	14,219	1,980	4,001	465	624	435
U. Alaska, Fairbanks	144,457	92,964	2,874	39,572	3,333	1,753	3,961
U. Alaska, Southeast	1,341	1,235	87	2	2	15	0
Private	1,774	451	5	0	1,312	0	6
Alaska Pacific U.	1,774	451	5	0	1,312	0	6
Arizona	1,434,177	631,218	70,113	467,635	40,518	96,806	127,887
Public	1,433,947	631,218	70,113	467,605	40,518	96,606	127,887
Arizona State U.	639,637	267,087	36,266	233,959	17,112	61,749	23,464
Dine C.	1,126	1,126	0	0	0	0	0
Northern Arizona U.	58,914	35,980	7,776	13,052	552	1,434	120
U. Arizona	734,270	327,025	26,071	220,594	22,854	33,423	104,303
Private	230	0	0	30	0	200	0
Southwest C. of Naturopathic Medicine and Health Sciences	230	0	0	30	0	200	0
Arkansas	364,781	131,698	68,779	131,301	14,552	9,450	9,001
Public	364,781	131,698	68,779	131,301	14,552	9,450	9,001
Arkansas State U., Jonesboro	8,945	4,876	3,010	781	209	6	63
U. Arkansas for Medical Sciences	153,135	63,498	8,991	62,472	6,877	2,756	8,541
U. Arkansas, Fayetteville	180,225	50,875	53,643	61,913	7,274	6,123	397
U. Arkansas, Little Rock	9,975	6,688	673	2,089	162	363	0
U. Arkansas, Pine Bluff	9,024	4,299	2,103	2,562	0	60	0
U. Central Arkansas	3,477	1,462	359	1,484	30	142	0
California	10,490,076	5,339,095	428,106	2,253,750	704,160	1,096,389	668,576
Public	7,420,422	3,445,623	366,400	1,774,596	461,106	802,219	570,478
California Polytechnic State U., San Luis Obispo	30,923	9,720	2,682	14,717	1,485	2,319	0
California State Polytechnic U., Pomona	6,099	3,555	994	1,094	447	9	0
California State U., Bakersfield	7,591	4,376	90	2,753	60	0	312
California State U., Channel Islands	1,572	500	704	337	21	0	10
California State U., Chico	3,232	1,864	523	456	36	100	253
California State U., Dominguez Hills	1,957	1,261	27	653	7	0	9

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
California State U., Fresno	8,599	2,900	2,612	2,486	195	341	65
California State U., Fullerton	7,173	4,340	298	1,872	198	465	0
California State U., Long Beach	18,664	13,579	1,114	1,457	678	465	1,371
California State U., Los Angeles	12,476	9,288	103	2,624	0	461	0
California State U., Maritime Academy	2,959	617	155	71	2,116	0	0
California State U., Monterey Bay	6,444	3,746	1,397	849	42	410	0
California State U., Northridge	21,095	16,939	1,606	1,863	49	587	51
California State U., Sacramento	23,544	5,801	10,720	5,746	386	888	3
California State U., San Bernardino	16,062	8,651	4,458	2,903	30	20	0
California State U., San Marcos	10,595	9,134	1,394	48	0	19	0
California State U., Stanislaus	1,477	964	78	96	277	62	0
Humboldt State U.	15,076	2,103	5,377	3,410	313	1,899	1,974
Naval Postgraduate School	67,323	54,358	0	12,007	522	48	388
San Diego State U.	92,964	39,515	1,911	47,338	808	1,631	1,761
San Francisco State U.	31,888	15,675	2,171	12,800	65	1,162	15
San Jose State U.	44,309	35,143	2,202	3,106	746	1,111	2,001
U. California, Berkeley	802,931	347,601	35,002	166,865	75,009	128,481	49,973
U. California, Davis	804,282	374,707	66,894	206,406	51,284	47,250	57,741
U. California, Irvine	448,967	217,094	16,787	119,130	26,292	28,066	41,598
U. California, Los Angeles	1,306,376	600,714	70,016	285,010	76,217	197,337	77,082
U. California, Merced	44,890	16,850	3,137	20,887	474	1,937	1,605
U. California, Office of the President	67,702	319	38,703	28,574	0	80	26
U. California, Riverside	177,655	81,151	9,195	52,805	8,305	8,609	17,590
U. California, San Diego	1,353,763	698,925	44,786	301,297	86,865	99,338	122,552
U. California, San Francisco	1,595,098	671,047	30,392	394,740	103,463	232,094	163,362
U. California, Santa Barbara	243,778	118,517	4,592	49,052	19,264	32,192	20,161
U. California, Santa Cruz	142,958	74,669	6,280	31,144	5,452	14,838	10,575
Private	3,069,654	1,893,472	61,706	479,154	243,054	294,170	98,098
Azusa Pacific U.	5,598	137	0	5,461	0	0	0
Biola U.	1,155	641	18	294	77	95	30
California Institute of Technology	399,931	287,198	1,367	42,683	15,052	29,267	24,364
California Lutheran U.	1,143	256	5	880	0	2	0
Chapman U.	19,592	5,738	525	8,835	448	3,996	50
Charles R. Drew U. of Medicine and Science	13,739	10,427	455	2,622	0	235	0
Claremont Graduate U.	8,715	1,886	321	2,809	1,056	2,527	116
Claremont McKenna C.	6,214	730	38	4,915	0	531	0
Harvey Mudd C.	3,353	1,619	0	1,208	201	191	134
Keck Graduate Institute	2,095	1,078	0	673	139	34	171
La Sierra U.	1,581	640	0	403	0	538	0
Loma Linda U.	24,408	16,909	742	3,328	1,828	1,502	99
Loyola Marymount U.	7,272	1,185	591	4,924	0	571	1
Marshall B. Ketchum U.	1,430	336	0	725	369	0	0
Mills C.	1,643	840	61	49	0	693	0
Occidental C.	2,458	1,614	164	NA	291	389	0
Pepperdine U.	2,170	914	54	1,059	0	143	0
Pomona C.	2,985	863	8	1,468	0	646	0

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Santa Clara U.	2,319	1,333	210	NA	250	526	0
Scripps Research Institute	427,734	267,122	4,347	76,306	39,161	40,798	0
Stanford U.	1,204,116	738,957	38,011	124,706	136,065	159,040	7,337
Touro U.	3,543	1,540	37	1,917	4	45	0
U. of the Pacific	3,078	2,158	404	NA	33	483	0
U. San Diego	6,036	2,511	135	2,823	0	273	294
U. San Francisco	2,712	198	257	1,723	0	534	0
U. Southern California	909,683	543,607	13,301	189,168	47,241	50,917	65,449
Western U. of Health Sciences	4,951	3,035	655	175	839	194	53
Colorado	1,622,011	1,165,031	54,990	163,362	86,322	93,666	58,640
Public	1,583,227	1,142,695	53,794	155,898	84,869	87,957	58,014
Colorado School of Mines	70,397	49,603	2,540	4,343	10,556	1,273	2,082
Colorado State U., Fort Collins	398,477	284,482	18,401	57,160	13,089	17,821	7,524
Colorado State U., Pueblo	3,107	1,282	1,725	89	0	0	11
Fort Lewis C.	1,460	1,284	61	85	7	23	0
U. Colorado Boulder	513,822	412,691	5,171	30,502	9,389	16,767	39,302
U. Colorado Colorado Springs	4,720	3,072	682	424	471	71	0
U. Colorado Denver and Anschutz Medical Campus	542,732	353,021	24,979	53,541	50,510	51,586	9,095
U. Northern Colorado	4,571	1,966	235	1,940	14	416	0
U.S. Air Force Academy	43,941	35,294	0	7,814	833	0	0
Private	38,784	22,336	1,196	7,464	1,453	5,709	626
Colorado C.	2,233	324	303	1,039	0	567	0
U. Denver	36,551	22,012	893	6,425	1,453	5,142	626
Connecticut	1,387,319	748,541	16,862	415,568	86,945	104,752	14,651
Public	293,431	160,744	8,120	90,583	11,808	15,900	6,276
Central Connecticut State U.	1,381	540	339	463	0	39	0
Eastern Connecticut State U.	1,659	181	12	1,466	0	0	0
Southern Connecticut State U.	4,627	803	160	3,471	6	108	79
U. Connecticut	285,764	159,220	7,609	85,183	11,802	15,753	6,197
Private	1,093,888	587,797	8,742	324,985	75,137	88,852	8,375
Connecticut C.	1,894	752	0	1,089	0	53	0
Fairfield U.	1,279	594	0	164	0	521	0
Trinity C., Hartford	1,858	1,077	0	582	4	195	0
U. Hartford	1,528	1,019	0	486	23	0	0
U. New Haven	5,062	2,786	559	542	490	685	0
Wesleyan U.	9,958	4,793	145	3,921	37	903	159
Yale U.	1,072,309	576,776	8,038	318,201	74,583	86,495	8,216
Delaware	229,287	145,199	12,877	55,805	5,969	4,556	4,881
Public	229,287	145,199	12,877	55,805	5,969	4,556	4,881
Delaware State U.	23,017	12,179	498	10,315	25	0	0
U. Delaware	206,270	133,020	12,379	45,490	5,944	4,556	4,881
District of Columbia	664,872	326,300	5,215	188,038	23,370	88,244	33,705
Public	9,031	7,514	62	1,455	0	0	0
National Defense U.	4,231	4,231	0	0	0	0	0
U. of the District of Columbia	4,800	3,283	62	1,455	0	0	0
Private	655,841	318,786	5,153	186,583	23,370	88,244	33,705
American U.	71,053	15,229	394	43,492	241	11,152	545
Catholic U. of America	24,484	21,642	278	1,398	485	681	0

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Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Gallaudet U.	5,382	2,190	0	2,436	1	153	602
George Washington U.	269,799	155,697	1,159	64,471	4,123	33,776	10,573
Georgetown U.	240,960	94,050	1,844	66,400	14,835	41,846	21,985
Howard U.	44,163	29,978	1,478	8,386	3,685	636	0
Florida	2,685,834	1,236,623	236,711	912,108	105,448	129,929	65,015
Public	2,269,462	995,578	220,323	827,886	70,776	93,038	61,861
Florida A&M U.	42,470	35,362	1,647	4,651	543	267	0
Florida Atlantic U.	51,085	21,667	4,017	16,253	1,981	5,037	2,130
Florida Gulf Coast U.	5,907	3,773	877	103	24	1,130	0
Florida International U.	225,864	96,912	14,884	102,581	1,652	8,509	1,326
Florida Polytechnic U.	2,006	338	1,289	369	2	1	7
Florida State U.	329,205	149,784	4,635	156,893	2,331	7,687	7,875
U. Central Florida	225,085	99,310	11,312	86,353	11,438	6,768	9,904
U. Florida	928,639	387,906	162,626	257,870	36,623	47,629	35,985
U. North Florida	12,341	4,017	1,693	6,457	76	86	12
U. South Florida, Saint Petersburg	11,686	3,121	2,480	5,766	28	273	18
U. South Florida, Sarasota-Manatee	1,872	0	0	1,859	0	12	1
U. South Florida, Tampa	391,325	181,882	12,787	161,641	15,408	15,108	4,499
U. West Florida	41,977	11,506	2,076	27,090	670	531	104
Private	416,372	241,045	16,388	84,222	34,672	36,891	3,154
Bethune-Cookman U.	735	735	0	0	0	0	0
Embry-Riddle Aeronautical U.	12,478	8,970	0	1,001	1,187	132	1,188
Florida Institute of Technology	17,876	10,352	1,218	4,854	453	579	420
Nova Southeastern U.	24,567	8,965	2,366	10,660	2,035	398	143
U. Miami	360,716	212,023	12,804	67,707	30,997	35,782	1,403
Georgia	2,667,874	1,491,639	167,321	725,561	145,235	121,978	16,140
Public	1,781,166	1,005,495	161,442	466,416	87,598	47,003	13,212
Albany State U.	1,491	1,065	256	0	170	0	0
Augusta U.	96,502	47,031	1,809	38,530	3,081	5,525	526
Fort Valley State U.	4,563	4,434	0	129	0	0	0
Georgia Institute of Technology	960,167	716,207	92,591	70,898	66,782	13,392	297
Georgia Southern U.	11,166	1,780	265	4,610	4,511	0	0
Georgia State U.	195,572	70,185	12,443	99,468	603	12,367	506
Kennesaw State U.	30,381	2,499	107	26,300	840	598	37
Savannah State U.	1,720	1,709	11	0	0	0	0
U. Georgia	477,536	159,948	53,931	225,620	11,610	14,581	11,846
U. North Georgia	2,068	637	29	861	1	540	0
Private	886,708	486,144	5,879	259,145	57,637	74,975	2,928
Clark Atlanta U.	9,048	5,689	0	3,207	22	130	0
Emory U.	794,928	424,461	5,392	239,403	50,408	72,787	2,477
Mercer U.	44,128	27,035	30	9,420	7,020	242	381
Morehouse C.	4,564	4,494	0	0	0	0	70
Morehouse School of Medicine	31,289	22,461	457	6,555	0	1,816	0
Spelman C.	2,751	2,004	0	560	187	0	0
Hawaii	301,419	186,601	20,297	77,733	1,967	13,150	1,671
Public	299,439	184,792	20,297	77,597	1,967	13,115	1,671
U. Hawaii, Hilo	6,864	4,924	281	1,035	121	440	63
U. Hawaii, Manoa	280,416	167,816	20,016	76,455	1,846	12,675	1,608
U. Hawaii, system office	12,159	12,052	0	107	0	0	0

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Private	1,980	1,809	0	136	0	35	0
Hawaii Pacific U.	1,980	1,809	0	136	0	35	0
Idaho	167,903	83,569	40,991	35,397	2,894	2,021	3,031
Public	167,903	83,569	40,991	35,397	2,894	2,021	3,031
Boise State U.	39,824	24,493	2,347	12,116	254	530	84
Idaho State U.	14,972	7,547	1,177	5,007	818	200	223
U. Idaho	113,107	51,529	37,467	18,274	1,822	1,291	2,724
Illinois	2,709,733	1,605,566	39,065	696,353	179,372	151,852	37,525
Public	1,181,566	631,283	35,838	373,975	63,426	49,172	27,872
Chicago State U.	898	898	0	0	0	0	0
Illinois State U.	27,082	9,827	514	15,525	456	749	11
Northeastern Illinois U.	2,478	2,478	0	0	0	0	0
Northern Illinois U.	26,570	8,610	1,167	16,077	337	255	124
Southern Illinois U., Carbondale	41,729	12,625	604	20,494	7,394	612	0
Southern Illinois U., Edwardsville	18,088	3,561	147	12,944	1,121	260	55
U. Illinois, Chicago	382,949	208,603	7,828	122,535	13,892	22,626	7,465
U. Illinois, Springfield	1,876	980	44	774	4	74	0
U. Illinois, Urbana-Champaign	677,523	382,206	25,352	185,282	40,128	24,596	19,959
Western Illinois U.	2,373	1,495	182	344	94	0	258
Private	1,528,167	974,283	3,227	322,378	115,946	102,680	9,653
Bradley U.	1,357	515	49	265	515	0	13
DePaul U.	6,144	4,464	6	1,132	36	473	33
Erikson Institute	2,279	753	588	179	0	759	0
Illinois Institute of Technology	34,334	28,827	1	1,826	2,328	1,007	345
Loyola U., Chicago	39,223	23,562	78	7,712	3,206	3,285	1,380
Midwestern U.	10,343	1,045	50	8,670	308	270	0
Northwestern U.	857,069	502,300	14	243,099	53,528	50,647	7,481
Rosalind Franklin U. of Medicine and Science	16,126	8,865	45	4,788	1,500	922	6
Rush U.	96,267	68,941	2,309	7,670	13,761	3,586	0
Toyota Technological Institute, Chicago	3,681	1,934	0	1,325	305	117	0
U. Chicago	459,171	332,776	87	44,762	40,457	40,694	395
Wheaton C., Wheaton	2,173	301	0	950	2	920	0
Indiana	1,661,312	699,333	47,300	635,438	100,742	123,421	55,078
Public	1,421,234	592,922	46,424	546,130	91,291	107,773	36,694
Ball State U.	12,145	2,929	758	7,734	391	333	0
Indiana State U.	1,682	1,190	142	186	70	94	0
Indiana U., Bloomington	668,157	308,586	4,772	263,300	26,165	64,916	418
Indiana U.-Purdue U., Indianapolis	67,635	27,349	976	30,077	3,479	5,652	102
Purdue U., Fort Wayne	2,416	544	423	879	135	144	291
Purdue U., Northwest	5,272	2,493	609	1,311	640	137	82
Purdue U., West Lafayette	663,927	249,831	38,744	242,643	60,411	36,497	35,801
Private	240,078	106,411	876	89,308	9,451	15,648	18,384
U. Notre Dame	240,078	106,411	876	89,308	9,451	15,648	18,384
Iowa	880,424	405,544	49,963	343,948	46,167	31,260	3,542
Public	870,455	402,772	49,632	337,902	46,139	30,682	3,328
Iowa State U.	358,474	147,866	43,041	129,709	23,851	10,679	3,328
U. Iowa	508,353	252,563	6,290	207,385	22,153	19,962	0

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

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U. Northern Iowa	3,628	2,343	301	808	135	41	0
Private	9,969	2,772	331	6,046	28	578	214
Des Moines U.	1,954	845	320	680	21	88	0
Drake U.	865	463	11	236	7	146	2
Grinnell C.	5,500	364	0	4,580	0	344	212
Palmer C. of Chiropractic, Davenport	1,650	1,100	0	550	0	0	0
Kansas	703,716	281,630	76,052	198,586	112,205	32,631	2,612
Public	703,716	281,630	76,052	198,586	112,205	32,631	2,612
Fort Hays State U.	1,143	694	326	123	0	0	0
Kansas State U.	218,622	81,269	37,702	82,673	7,099	7,783	2,096
Pittsburg State U.	2,513	339	976	NA	1,025	173	0
U. Kansas	352,643	169,694	29,122	107,078	22,073	24,168	508
Wichita State U.	128,795	29,634	7,926	8,712	82,008	507	8
Kentucky	610,983	294,795	49,921	182,081	19,130	22,179	42,877
Public	610,983	294,795	49,921	182,081	19,130	22,179	42,877
Eastern Kentucky U.	1,125	598	82	328	2	13	102
Kentucky State U.	8,433	4,692	3,626	10	72	33	0
Morehead State U.	2,028	1,651	50	317	0	10	0
Murray State U.	3,710	2,639	22	982	67	0	0
Northern Kentucky U.	2,363	1,316	105	769	33	140	0
U. Kentucky	410,581	192,945	37,544	125,639	11,297	14,018	29,138
U. Louisville	173,462	87,563	8,114	48,834	7,475	7,880	13,596
Western Kentucky U.	9,281	3,391	378	5,202	184	85	41
Louisiana	778,357	302,498	98,916	232,925	69,914	50,200	23,904
Public	568,500	188,210	93,838	177,928	64,949	32,487	11,088
Grambling State U.	2,836	1,066	670	1,100	0	0	0
Louisiana State U., Baton Rouge	296,497	88,721	67,140	107,220	12,178	12,570	8,668
Louisiana State U., Health Sciences Center, New Orleans	40,914	31,290	253	3,522	2,222	3,227	400
Louisiana State U., Health Sciences Center, Shreveport	26,262	12,185	132	9,841	524	3,580	0
Louisiana Tech U.	26,143	6,564	2,525	14,848	890	0	1,316
Northwestern State U. Louisiana	2,058	579	1,235	244	0	0	0
Southeastern Louisiana U.	1,971	803	174	782	12	168	32
Southern U. and A&M C., Agricultural Research and Extension Center	5,448	3,057	2,323	68	0	0	0
Southern U. and A&M C., Baton Rouge	4,492	3,243	290	704	255	0	0
U. Louisiana, Lafayette	144,187	34,400	17,869	31,636	48,344	11,938	0
U. Louisiana, Monroe	2,364	1,949	179	94	2	140	0
U. New Orleans	15,328	4,353	1,048	7,869	522	864	672
Private	209,857	114,288	5,078	54,997	4,965	17,713	12,816
Dillard U.	2,772	1,390	185	732	0	98	367
Tulane U.	196,933	104,219	4,379	53,333	4,965	17,588	12,449
Xavier U. Louisiana	10,152	8,679	514	932	0	27	0
Maine	151,249	63,641	23,170	52,320	4,383	5,191	2,544
Public	136,925	53,882	23,138	48,881	4,334	4,540	2,150
Maine Maritime Academy	358	282	0	76	0	0	0

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Maine	129,913	51,049	19,299	48,644	4,334	4,452	2,135
U. Southern Maine	6,654	2,551	3,839	161	0	88	15
Private	14,324	9,759	32	3,439	49	651	394
Bates C.	2,135	1,607	0	284	0	101	143
Bowdoin C.	2,991	1,790	31	758	1	411	0
Colby C.	1,852	1,093	1	512	0	0	246
U. New England	7,346	5,269	0	1,885	48	139	5
Maryland	4,629,161	3,598,661	80,460	555,299	139,039	246,371	9,331
Public	1,711,725	1,116,531	72,934	403,256	33,234	79,800	5,970
Bowie State U.	1,911	1,911	0	0	0	0	0
Morgan State U.	13,253	11,952	336	507	278	58	122
Salisbury U.	9,368	2,290	3,477	3,475	7	119	0
Towson U.	3,423	2,144	19	851	75	303	31
U. Baltimore	12,451	9,103	1,985	NA	34	937	392
U. Maryland ^a	1,096,600	696,880	34,241	279,371	30,775	50,561	4,772
U. Maryland Center for Environmental Science	56,033	17,476	25,840	10,418	940	1,267	92
U. Maryland, Baltimore County	80,632	56,993	6,927	13,297	1,084	1,770	561
U. Maryland, Eastern Shore	7,133	6,983	109	0	41	0	0
U.S. Naval Academy	13,621	12,991	0	275	0	355	0
Uniformed Services U. of the Health Sciences	417,300	297,808	0	95,062	0	24,430	0
Private	2,917,436	2,482,130	7,526	152,043	105,805	166,571	3,361
Johns Hopkins U. ^b	2,917,436	2,482,130	7,526	152,043	105,805	166,571	3,361
Massachusetts	4,305,676	2,384,590	41,650	972,123	325,565	426,532	155,216
Public	683,650	382,980	26,474	196,609	33,010	31,987	12,590
U. Massachusetts, Amherst	223,177	117,359	12,409	70,889	10,026	8,986	3,508
U. Massachusetts, Boston	62,018	25,083	2,369	28,163	1,675	4,108	620
U. Massachusetts, central office	4,916	488	3,226	240	323	578	61
U. Massachusetts, Dartmouth	28,036	7,353	1,603	17,421	1,140	287	232
U. Massachusetts, Lowell	83,996	35,309	6,390	36,658	3,460	1,095	1,084
U. Massachusetts, Medical School	281,507	197,388	477	43,238	16,386	16,933	7,085
Private	3,622,026	2,001,610	15,176	775,514	292,555	394,545	142,626
Amherst C.	6,325	2,118	0	2,894	0	154	1,159
Babson C.	1,845	14	0	868	101	198	664
Boston C.	61,956	32,475	2,163	13,596	440	13,104	178
Boston U.	534,205	318,511	395	149,767	21,793	41,622	2,117
Brandeis U.	60,825	41,475	195	8,461	475	8,191	2,028
Clark U.	10,193	3,495	181	5,162	43	1,295	17
Emerson C.	1,145	138	184	398	8	417	0
Franklin W. Olin C. of Engineering	1,655	162	0	574	92	697	130
Harvard U.	1,239,736	618,405	980	381,597	48,168	166,590	23,996
Massachusetts Institute of Technology	1,009,466	489,345	2,713	116,760	196,810	107,962	95,876
MGH Institute of Health Professions	4,130	3,494	0	20	0	616	0
Mount Holyoke C.	2,979	2,074	41	398	0	466	0
New England C. of Optometry	1,223	928	0	174	44	77	0
Northeastern U.	183,998	126,762	1,926	39,442	7,629	7,788	451

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Smith C.	6,041	2,892	0	1,658	21	1,470	0
Tufts U.	213,285	146,630	1,944	22,548	11,123	27,005	4,035
Wellesley C.	8,810	3,602	115	0	143	4,508	442
Williams C.	5,188	1,131	0	1,758	0	145	2,154
Woods Hole Oceanographic Institution	229,143	184,995	1,501	20,634	1,234	11,584	9,195
Worcester Polytechnic Institute	39,878	22,964	2,838	8,805	4,431	656	184
Michigan	2,891,267	1,435,005	66,308	1,091,245	134,698	119,889	44,122
Public	2,814,714	1,408,360	65,076	1,058,732	133,240	114,936	34,370
Central Michigan U.	17,102	8,100	77	7,798	43	806	278
Eastern Michigan U.	7,175	2,135	36	4,654	91	245	14
Grand Valley State U.	6,592	1,663	190	3,423	39	877	400
Michigan State U.	725,708	331,148	48,535	296,991	14,207	19,282	15,545
Michigan Technological U.	80,443	34,709	728	36,574	7,155	247	1,030
Northern Michigan U.	1,520	311	2	1,027	86	38	56
Oakland U.	18,002	6,690	1,544	7,410	939	1,419	0
Saginaw Valley State U.	2,818	2,339	19	271	1	159	29
U. Michigan, Ann Arbor	1,675,805	886,851	2,706	608,028	98,997	68,758	10,465
U. Michigan, Dearborn	8,813	1,850	2	3,871	2,871	179	40
U. Michigan, Flint	1,448	122	205	855	131	121	14
Wayne State U.	244,217	118,043	10,568	81,510	6,995	22,182	4,919
Western Michigan U. and Homer Stryker M.D. School of Medicine	25,071	14,399	464	6,320	1,685	623	1,580
Private	76,553	26,645	1,232	32,513	1,458	4,953	9,752
Albion C.	1,040	180	0	860	0	0	0
Andrews U.	1,126	278	0	615	0	233	0
Calvin U.	1,577	925	32	5	99	188	328
Hope C.	2,745	1,361	0	281	0	1,103	0
Kettering U.	1,765	402	0	720	602	41	0
Lawrence Technological U.	1,352	304	224	96	279	449	0
U. Detroit Mercy	5,210	4,936	0	121	12	141	0
Van Andel Research Institute	61,738	18,259	976	29,815	466	2,798	9,424
Minnesota	1,060,927	507,133	87,261	344,331	52,478	43,316	26,408
Public	1,048,543	503,328	86,678	337,625	52,191	42,426	26,295
Minnesota State U., Mankato	3,392	708	179	1,339	0	951	215
St. Cloud State U.	3,275	733	159	1,180	743	460	0
U. Minnesota, Duluth	27,530	7,143	6,735	12,443	1,025	77	107
U. Minnesota, Morris	1,234	195	18	1,011	0	10	0
U. Minnesota, Twin Cities	1,013,112	494,549	79,587	321,652	50,423	40,928	25,973
Private	12,384	3,805	583	6,706	287	890	113
Augsburg U.	991	496	0	441	0	0	54
C. of Saint Benedict	1,126	45	0	1,081	0	0	0
Carleton C.	4,388	1,891	98	1,955	0	423	21
Macalester C.	1,808	805	95	797	0	111	0
Saint John's U., Collegeville	1,191	0	0	1,191	0	0	0
St. Olaf C.	1,010	255	10	638	0	107	0
U. of St. Thomas (MN)	1,870	313	380	603	287	249	38
Mississippi	535,774	252,706	97,748	156,102	12,594	13,423	3,201
Public	532,394	249,326	97,748	156,102	12,594	13,423	3,201

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Alcorn State U.	14,435	7,540	4,725	2,133	37	0	0
Jackson State U.	18,160	16,259	0	1,438	0	347	116
Mississippi State U.	264,526	104,738	77,562	68,709	3,882	8,220	1,415
U. Mississippi	158,809	73,865	3,579	73,478	2,602	3,712	1,573
U. Southern Mississippi	76,464	46,924	11,882	10,344	6,073	1,144	97
Private	3,380	3,380	0	0	0	0	0
Tougaloo C.	3,380	3,380	0	0	0	0	0
Missouri	1,325,463	752,741	11,232	329,918	112,776	103,989	14,807
Public	371,628	174,524	8,803	154,266	11,579	10,588	11,868
Lincoln U., Jefferson City	4,581	2,700	1,881	NA	0	0	0
Missouri State U.	5,910	5,076	90	567	140	37	0
Missouri U. of Science and Technology	41,939	22,279	442	11,958	4,481	820	1,959
U. Missouri, Columbia	278,793	123,252	6,296	126,833	6,551	7,785	8,076
U. Missouri, Kansas City	26,708	14,327	0	10,162	364	733	1,122
U. Missouri, Saint Louis	13,697	6,890	94	4,746	43	1,213	711
Private	953,835	578,217	2,429	175,652	101,197	93,401	2,939
A. T. Still U.	644	434	0	87	1	122	0
Saint Louis U.	66,103	34,275	1,466	17,838	4,885	6,173	1,466
Washington U., Saint Louis	887,088	543,508	963	157,727	96,311	87,106	1,473
Montana	273,459	150,698	24,757	82,468	2,835	6,502	6,199
Public	272,207	149,447	24,757	82,468	2,835	6,501	6,199
Montana State U., Bozeman	154,811	88,955	17,738	39,627	1,974	4,251	2,266
Montana Technological U.	12,731	4,926	5,736	1,548	511	0	10
U. Montana, Missoula	104,665	55,566	1,283	41,293	350	2,250	3,923
Private	1,252	1,251	0	0	0	1	0
Salish Kootenai C.	1,252	1,251	0	0	0	1	0
Nebraska	572,488	250,321	75,990	167,091	29,952	22,195	26,939
Public	547,356	241,128	70,678	159,865	28,398	21,351	25,936
U. Nebraska, central administration	18,860	18,523	0	146	191	0	0
U. Nebraska, Kearney	2,919	1,240	695	891	45	14	34
U. Nebraska, Lincoln	316,820	109,954	55,969	118,095	18,157	4,893	9,752
U. Nebraska, Medical Center	194,455	102,604	12,284	37,891	9,896	15,706	16,074
U. Nebraska, Omaha	14,302	8,807	1,730	2,842	109	738	76
Private	25,132	9,193	5,312	7,226	1,554	844	1,003
Creighton U.	24,039	8,265	5,312	7,078	1,554	827	1,003
Doane U.	1,093	928	0	148	0	17	0
Nevada	282,480	108,046	15,020	142,013	4,335	5,636	7,430
Public	278,564	108,029	15,012	138,267	4,279	5,547	7,430
Desert Research Institute	26,991	16,745	2,765	3,896	258	2,565	762
U. Nevada, Las Vegas	99,445	28,381	2,494	63,995	1,465	805	2,305
U. Nevada, Reno	152,128	62,903	9,753	70,376	2,556	2,177	4,363
Private	3,916	17	8	3,746	56	89	0
Roseman U. of Health Sciences	3,916	17	8	3,746	56	89	0
New Hampshire	492,183	245,860	5,901	193,098	14,862	25,658	6,804
Public	150,041	91,263	4,648	38,202	8,680	6,422	826
Keene State C.	1,061	1,022	0	39	0	0	0
U. New Hampshire	148,980	90,241	4,648	38,163	8,680	6,422	826
Private	342,142	154,597	1,253	154,896	6,182	19,236	5,978

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Dartmouth C. and Dartmouth Hitchcock Medical Center	342,142	154,597	1,253	154,896	6,182	19,236	5,978
New Jersey	1,331,199	651,428	95,140	294,689	66,647	122,072	101,223
Public	900,187	425,463	90,678	209,026	47,125	64,223	63,672
Montclair State U.	10,225	4,164	331	904	117	4,604	105
New Jersey City U.	5,961	3,142	1,421	1,238	10	140	10
New Jersey Institute of Technology	161,232	89,846	3,268	55,507	2,511	5,099	5,001
Rowan U.	22,892	12,064	4,615	3,477	1,200	1,536	0
Rutgers, State U. New Jersey, Camden	3,211	1,096	86	1,370	120	537	2
Rutgers, State U. New Jersey, New Brunswick	657,249	297,609	77,809	131,158	42,618	50,510	57,545
Rutgers, State U. New Jersey, Newark	26,661	15,397	1,361	6,607	548	1,739	1,009
Stockton U.	2,634	553	1,787	289	0	5	0
William Paterson U.	10,122	1,592	0	8,476	1	53	0
Private	431,012	225,965	4,462	85,663	19,522	57,849	37,551
Monmouth U.	1,294	120	735	62	21	321	35
Princeton U.	385,739	193,453	704	80,414	17,701	55,994	37,473
Rider U.	228	68	25	104	0	29	2
Seton Hall U.	7,056	3,982	1,871	120	232	851	0
Stevens Institute of Technology	36,695	28,342	1,127	4,963	1,568	654	41
New Mexico	365,769	240,826	26,332	71,433	4,060	16,014	7,104
Public	365,769	240,826	26,332	71,433	4,060	16,014	7,104
New Mexico Institute of Mining and Technology	24,616	22,864	226	311	923	215	77
New Mexico State U.	101,457	58,022	20,496	12,922	1,022	3,569	5,426
U. New Mexico	239,696	159,940	5,610	58,200	2,115	12,230	1,601
New York	7,075,577	3,660,588	435,048	1,655,848	487,620	529,480	306,993
Public	1,610,093	665,298	270,480	423,413	160,904	47,201	42,797
CUNY, Advanced Science Research Center	8,310	6,859	17	706	288	141	299
CUNY, Baruch C.	2,387	1,359	98	570	0	330	30
CUNY, Brooklyn C.	7,064	4,463	109	1,879	41	501	71
CUNY, C. Staten Island	3,986	2,421	680	408	175	64	238
CUNY, City C.	52,738	33,065	7,584	10,094	490	1,033	472
CUNY, Graduate Center	5,399	3,009	152	70	0	1,077	1,091
CUNY, Graduate School of Public Health and Health Policy	9,521	5,572	1,190	1,518	328	913	0
CUNY, Hunter C.	37,478	23,485	2,788	10,063	203	541	398
CUNY, John Jay C. of Criminal Justice	12,295	4,971	808	2,240	2,421	512	1,343
CUNY, Lehman C.	4,690	3,342	0	787	0	0	561
CUNY, Medgar Evers C.	1,397	954	0	383	0	60	0
CUNY, New York City C. of Technology	2,711	1,891	5	256	554	5	0
CUNY, Queens C.	18,391	13,457	975	3,403	16	535	5
CUNY, system office	2,619	2,241	23	109	0	131	115
CUNY, York C.	1,621	1,511	0	88	22	0	0
SUNY, Binghamton U.	104,297	24,213	6,085	68,519	3,508	1,243	729

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
SUNY, Buffalo State	2,124	1,225	435	209	37	209	9
SUNY, C. Brockport	1,390	638	244	480	0	7	21
SUNY, C. of Environmental Science and Forestry	29,137	7,743	13,726	6,552	469	542	105
SUNY, C. of Optometry	2,968	1,823	0	350	711	84	0
SUNY, C. Plattsburgh	1,729	1,197	59	472	0	1	0
SUNY, Downstate Medical Center	36,015	26,914	21	7,150	469	1,096	365
SUNY, Geneseo	2,139	1,206	15	903	0	15	0
SUNY, Oswego	1,781	628	66	1,028	0	48	11
SUNY, Polytechnic Institute	352,889	38,245	189,201	12,963	110,306	1,301	873
SUNY, Stony Brook U.	260,813	144,618	12,674	85,067	5,739	9,305	3,410
SUNY, U. Albany	181,531	92,709	8,784	65,357	708	1,990	11,983
SUNY, U. Buffalo	413,817	182,983	22,439	134,258	31,802	23,478	18,857
SUNY, Upstate Medical U.	38,091	22,028	2,302	7,531	2,380	2,039	1,811
U.S. Military Academy	10,765	10,528	0	0	237	0	0
Private	5,465,484	2,995,290	164,568	1,232,435	326,716	482,279	264,196
Albany C. of Pharmacy and Health Sciences	3,383	1,692	0	744	901	40	6
Albany Medical C.	23,028	11,827	0	4,294	4,413	1,355	1,139
Albert Einstein C. of Medicine	298,824	202,513	2,127	79,274	2,778	12,132	0
Alfred U.	5,153	1,580	1,059	1,882	632	0	0
Barnard C.	4,010	2,871	0	656	136	347	0
Canisius C.	950	943	0	0	0	7	0
Clarkson U.	17,147	8,551	1,292	5,140	1,196	845	123
Cold Spring Harbor Laboratory	126,773	73,854	152	32,823	1,527	18,417	0
Colgate U.	3,756	1,202	0	2,313	0	241	0
Columbia U. in the City of New York	1,003,615	736,536	7,977	74,951	78,227	103,544	2,380
Cornell U.	1,144,534	525,182	92,698	227,319	56,461	118,002	124,872
Fordham U.	20,287	4,218	70	13,774	149	1,246	830
Hamilton C.	2,050	190	0	1,302	0	491	67
Hobart and William Smith Colleges	1,919	1,047	329	453	0	90	0
Hofstra U.	1,744	1,296	51	206	58	99	34
Icahn School of Medicine at Mount Sinai	722,241	443,745	9,191	134,825	69,816	56,296	8,368
Long Island U.	5,113	1,839	11	2,935	173	155	0
Manhattan C.	1,190	245	220	430	295	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	3,769	191	0	3,576	0	2	0
New School	13,421	1,819	466	3,459	211	6,091	1,375
New York Institute of Technology	5,820	3,135	188	2,059	6	432	0
New York Medical C.	19,398	11,061	1,444	590	3,927	1,699	677
New York U.	934,720	436,850	22,939	229,172	50,280	80,137	115,342
Niagara U.	2,057	355	275	620	0	807	0
Pace U.	3,855	2,579	7	1,183	18	64	4
Rensselaer Polytechnic Institute	103,739	50,448	5,091	29,674	14,189	4,337	0
Rochester Institute of Technology	58,175	26,359	10,835	16,939	2,271	1,007	764
Rockefeller U.	351,089	84,566	484	224,310	7,518	34,018	193

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Skidmore C.	3,012	2,261	0	465	0	286	0
St. John's U., New York	2,352	1,666	0	405	162	105	14
Syracuse U.	154,366	37,803	4,884	94,588	5,820	11,103	168
Teachers C., Columbia U.	24,865	8,054	161	NA	1,156	13,167	2,327
U. Rochester	393,960	306,551	2,598	40,515	24,370	15,256	4,670
Union C., Schenectady	1,740	972	19	637	26	61	25
Vassar C.	1,009	909	0	53	0	19	28
Yeshiva U.	2,420	380	0	869	0	381	790
North Carolina	3,388,360	1,944,527	161,707	669,694	359,524	203,755	49,153
Public	1,916,440	1,065,954	146,560	490,212	109,502	83,632	20,580
Appalachian State U.	3,268	1,332	337	657	580	357	5
East Carolina U.	55,611	17,428	516	28,806	4,076	4,714	71
Fayetteville State U.	4,695	2,168	476	1,793	168	90	0
North Carolina Agricultural and Technical State U.	37,339	23,863	347	12,615	208	208	98
North Carolina Central U.	16,227	13,503	233	NA	262	980	1,249
North Carolina State U.	541,100	228,945	123,196	127,691	55,085	5,749	434
U. North Carolina, Asheville	4,602	1,846	203	418	13	2,122	0
U. North Carolina, Chapel Hill	1,153,773	720,613	9,455	293,561	44,962	67,773	17,409
U. North Carolina, Charlotte	47,187	26,199	962	15,946	2,877	941	262
U. North Carolina, general administration	4,154	213	3,941	0	0	0	0
U. North Carolina, Greensboro	26,325	18,923	268	5,804	194	149	987
U. North Carolina, Wilmington	17,515	7,174	6,472	2,444	964	396	65
Western Carolina U.	2,633	1,736	154	477	113	153	0
Winston-Salem State U.	2,011	2,011	0	NA	0	0	0
Private	1,471,920	878,573	15,147	179,482	250,022	120,123	28,573
Davidson C.	1,777	973	0	642	4	158	0
Duke U.	1,226,517	709,705	498	154,081	236,292	105,775	20,166
Elon U.	2,545	284	0	2,179	37	42	3
Johnson C. Smith U.	2,148	1,909	100	0	0	139	0
Wake Forest U.	238,933	165,702	14,549	22,580	13,689	14,009	8,404
North Dakota	263,217	85,022	59,701	97,900	12,557	2,053	5,984
Public	263,217	85,022	59,701	97,900	12,557	2,053	5,984
North Dakota State U.	152,381	35,322	48,566	58,902	2,166	1,444	5,981
U. North Dakota	110,836	49,700	11,135	38,998	10,391	609	3
Ohio	2,499,431	1,478,481	104,399	474,594	229,406	157,209	55,342
Public	1,888,931	964,632	98,582	426,179	215,622	132,049	51,867
Air Force Institute of Technology	34,016	21,856	0	12,037	73	50	0
Bowling Green State U.	17,026	5,852	1,443	9,126	37	461	107
Central State U.	3,766	2,517	1,249	0	0	0	0
Cleveland State U.	80,077	51,475	2,810	18,823	2,451	4,260	258
Kent State U.	47,188	13,350	547	31,215	518	1,418	140
Miami U.	22,380	9,755	1,877	9,085	1,155	438	70
Northeast Ohio Medical U.	18,016	10,107	132	5,288	0	2,489	0
Ohio State U.	929,250	497,651	62,752	136,923	157,885	49,679	24,360
Ohio U.	53,735	14,802	3,942	27,950	4,497	2,411	133
U. Akron	30,020	11,796	4,604	7,713	3,781	1,330	796
U. Cincinnati	529,796	252,892	6,716	137,969	40,435	65,864	25,920

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Toledo	55,006	28,273	928	19,875	3,453	2,470	7
Wright State U.	64,208	41,428	10,917	9,377	1,303	1,108	75
Youngstown State U.	4,447	2,878	665	798	34	71	1
Private	610,500	513,849	5,817	48,415	13,784	25,160	3,475
C. Wooster	1,758	456	0	997	0	297	8
Case Western Reserve U.	438,994	357,549	1,771	44,093	8,363	23,865	3,353
Heidelberg U.	1,237	164	651	178	62	182	0
Kenyon C.	1,092	776	0	176	0	140	0
Oberlin C.	2,076	1,576	0	469	3	28	0
U. Dayton	165,343	153,328	3,395	2,502	5,356	648	114
Oklahoma	533,785	219,744	60,153	199,689	38,415	10,980	4,804
Public	515,137	215,602	59,407	195,842	28,787	10,826	4,673
Langston U.	10,719	6,622	0	3,856	241	0	0
Oklahoma State U., Center for Health Sciences	5,408	985	135	4,159	129	0	0
Oklahoma State U., Stillwater	184,276	39,880	23,288	107,127	13,185	698	98
U. Central Oklahoma	5,682	1,457	607	3,546	69	3	0
U. Oklahoma, Norman and Health Science Center	302,679	164,855	35,137	74,505	14,954	9,041	4,187
U. Oklahoma, Tulsa	6,373	1,803	240	2,649	209	1,084	388
Private	18,648	4,142	746	3,847	9,628	154	131
U. Tulsa	18,648	4,142	746	3,847	9,628	154	131
Oregon	863,844	588,171	56,392	101,669	44,981	57,617	15,014
Public	844,961	580,373	55,756	94,914	44,410	54,499	15,009
Oregon Health and Science U.	415,629	298,227	80	38,139	36,000	42,653	530
Oregon Institute of Technology	4,793	437	2,585	488	1,126	157	0
Oregon State U.	263,830	168,571	47,392	26,530	5,833	2,564	12,940
Portland State U.	50,045	33,055	4,913	7,713	1,156	2,620	588
U. Oregon	110,664	80,083	786	22,044	295	6,505	951
Private	18,883	7,798	636	6,755	571	3,118	5
Lewis and Clark C.	2,750	931	0	1,483	0	336	0
National U. of Natural Medicine	1,245	760	0	308	172	0	5
Pacific U.	8,753	3,917	317	2,356	397	1,766	0
Reed C.	3,240	1,423	23	1,558	0	236	0
U. Portland	942	218	292	189	2	241	0
Willamette U.	1,953	549	4	861	0	539	0
Pennsylvania	4,646,721	2,569,664	102,071	1,234,511	297,480	295,295	147,700
Public	2,337,046	1,444,320	68,994	481,123	76,878	143,197	122,534
Indiana U. Pennsylvania	8,119	1,810	321	5,515	9	464	0
Pennsylvania State U., Behrend	3,414	1,427	75	1,092	515	305	0
Pennsylvania State U., Harrisburg	2,805	80	596	1,525	188	416	0
Pennsylvania State U., University Park and Hershey Medical Center	949,679	600,489	51,658	207,208	32,949	56,184	1,191
Temple U.	284,301	161,673	6,508	72,826	17,849	18,392	7,053
U. Pittsburgh, Pittsburgh	1,080,951	677,559	9,702	187,204	25,312	67,014	114,160
U.S. Army War C.	1,000	567	107	231	31	46	18
West Chester U. Pennsylvania	6,777	715	27	5,522	25	376	112
Private	2,309,675	1,125,344	33,077	753,388	220,602	152,098	25,166
Allegheny C.	632	217	5	248	0	160	2

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Bryn Mawr C.	9,846	1,801	0	7,726	0	319	0
Bucknell U.	5,625	1,764	80	3,201	214	355	11
Carnegie Mellon U.	359,720	197,978	2,593	107,841	36,414	7,887	7,007
Dickinson C.	1,037	324	111	350	0	209	43
Drexel U.	149,481	85,278	5,287	40,179	3,888	8,949	5,900
Duquesne U.	16,947	4,552	812	9,191	266	2,118	8
Franklin and Marshall C.	5,041	1,582	321	2,375	208	265	290
Gettysburg C.	1,664	841	0	186	59	394	184
Haverford C.	3,752	2,343	0	919	0	219	271
Lafayette C.	1,554	910	10	598	36	0	0
Lehigh U.	38,185	26,554	2,034	8,368	503	435	291
Mercyhurst U.	1,801	668	555	578	0	0	0
Philadelphia C. of Osteopathic Medicine	3,162	346	0	2,368	0	448	0
Saint Joseph's U.	2,851	373	769	1,260	4	245	200
Salus U.	854	696	13	77	60	8	0
Swarthmore C.	4,203	1,539	0	2,344	0	320	0
Thomas Jefferson U.	170,458	74,816	3,010	56,965	18,910	9,041	7,716
U. of the Sciences Philadelphia	3,740	1,318	76	745	1,117	484	0
U. Pennsylvania	1,506,285	717,359	16,182	491,734	158,554	119,464	2,992
Villanova U.	22,837	4,085	1,219	16,135	369	778	251
Rhode Island	390,575	262,170	16,666	80,659	8,429	16,395	6,256
Public	129,700	81,472	16,451	25,956	4,269	894	658
Naval War C.	5,060	5,060	0	0	0	0	0
Rhode Island C.	9,480	3,332	5,573	107	1	467	0
U. Rhode Island	115,160	73,080	10,878	25,849	4,268	427	658
Private	260,875	180,698	215	54,703	4,160	15,501	5,598
Brown U.	256,954	178,460	33	53,599	3,893	15,371	5,598
Providence C.	1,042	857	0	152	0	33	0
Rhode Island School of Design	1,027	246	44	450	234	53	0
Roger Williams U.	1,852	1,135	138	502	33	44	0
South Carolina	742,924	354,530	32,674	265,562	44,090	30,260	15,808
Public	738,281	350,463	32,660	265,159	44,090	30,101	15,808
C. Charleston	7,610	4,395	249	2,298	4	638	26
Clemson U.	218,760	81,080	24,259	87,791	18,812	6,643	175
Coastal Carolina U.	2,042	1,294	177	42	1	517	11
Medical U. South Carolina	295,600	153,226	4,779	94,830	19,855	12,380	10,530
South Carolina State U.	3,659	3,659	NA	NA	NA	NA	NA
U. South Carolina, Aiken	2,481	2,379	0	99	0	3	0
U. South Carolina, Columbia	205,940	102,992	3,097	79,622	5,411	9,752	5,066
Winthrop U.	2,189	1,438	99	477	7	168	0
Private	4,643	4,067	14	403	0	159	0
Benedict C.	1,269	1,226	14	0	0	29	0
Claflin U.	1,746	1,735	0	0	0	11	0
Furman U.	1,628	1,106	0	403	0	119	0
South Dakota	118,377	57,660	18,883	22,769	2,716	5,767	10,582
Public	117,536	56,876	18,883	22,712	2,716	5,767	10,582
Black Hills State U.	2,031	1,535	147	349	0	0	0
Dakota State U.	3,710	3,008	129	538	33	2	0

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
South Dakota School of Mines and Technology	12,973	9,283	1,101	1,638	680	229	42
South Dakota State U.	66,794	29,683	15,663	4,511	1,955	4,442	10,540
U. South Dakota	32,028	13,367	1,843	15,676	48	1,094	0
Private	841	784	0	57	0	0	0
Augustana U.	841	784	0	57	0	0	0
Tennessee	1,337,211	754,834	35,939	393,458	76,014	56,350	20,616
Public	537,240	240,968	34,671	207,826	14,946	21,134	17,695
Austin Peay State U.	2,285	295	1,295	486	196	0	13
East Tennessee State U.	14,197	7,688	112	2,547	641	2,925	284
Middle Tennessee State U.	7,673	2,473	474	3,955	237	113	421
Tennessee State U.	15,236	8,962	752	5,443	66	13	0
Tennessee Technological U.	13,801	6,153	4,544	2,751	69	170	114
U. Memphis	58,700	18,370	7,117	29,849	1,317	1,541	506
U. Tennessee, Chattanooga	9,280	2,393	1,195	4,945	217	354	176
U. Tennessee, Health Science Center	96,979	42,396	4,185	23,971	3,245	12,094	11,088
U. Tennessee, Knoxville	247,693	123,434	14,104	98,238	6,142	2,731	3,044
U. Tennessee, Knoxville, Institute of Agriculture	71,396	28,804	893	35,641	2,816	1,193	2,049
Private	799,971	513,866	1,268	185,632	61,068	35,216	2,921
Fisk U.	4,748	4,615	0	0	47	86	0
Meharry Medical C.	18,286	16,443	0	921	50	872	0
Vanderbilt U. and Vanderbilt U. Medical Center	776,937	492,808	1,268	184,711	60,971	34,258	2,921
Texas	5,967,210	2,347,454	854,553	1,610,434	436,376	446,322	272,071
Public	5,035,122	1,918,327	811,917	1,322,269	388,237	330,007	264,365
Lamar U.	4,848	2,641	902	695	131	333	146
Prairie View A&M U.	18,018	9,346	4,886	3,454	221	111	0
Sam Houston State U.	9,445	3,723	183	5,310	53	115	61
Stephen F. Austin State U.	3,679	1,332	1,430	543	21	184	169
Sul Ross State U.	2,352	339	160	593	52	622	586
Tarleton State U.	13,171	4,632	2,946	5,383	96	79	35
Texas A&M International U.	6,068	1,847	1,077	1,555	54	1,498	37
Texas A&M U., College Station and Health Science Center	952,156	359,609	190,465	274,537	41,351	59,798	26,396
Texas A&M U.-Central Texas	428	45	250	71	0	62	0
Texas A&M U.-Commerce	3,403	836	296	1,756	31	184	300
Texas A&M U.-Corpus Christi	32,944	14,451	8,481	3,981	479	2,548	3,004
Texas A&M U.-Kingsville	22,268	8,419	4,190	3,985	451	5,223	0
Texas Southern U.	4,893	3,238	922	662	36	35	0
Texas State U.	64,554	29,614	4,871	25,361	725	3,983	0
Texas Tech U.	193,923	35,136	23,788	104,700	16,210	13,963	126
Texas Tech U., Health Sciences Center	44,072	11,345	17,778	8,854	433	1,963	3,699
Texas Tech U., Health Sciences Center, El Paso	11,883	2,279	2,544	6,306	363	335	56
Texas Woman's U.	4,477	1,864	559	1,321	126	607	0
U. Houston	195,398	68,523	38,963	65,710	8,597	11,270	2,335
U. Houston-Clear Lake	1,370	718	431	39	51	131	0

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Houston-Downtown	2,216	1,437	99	368	0	312	0
U. North Texas, Denton	78,691	17,345	2,735	53,843	1,807	1,087	1,874
U. North Texas, Health Science Center	50,124	27,260	11,355	8,142	1,872	1,492	3
U. Texas Health Science Center, Houston	271,525	132,647	38,516	43,586	20,549	22,721	13,506
U. Texas Health Science Center, San Antonio	188,483	96,502	20,807	42,551	8,499	19,715	409
U. Texas Health Science Center, Tyler	16,538	5,626	2,226	5,640	725	2,320	1
U. Texas M. D. Anderson Cancer Center	969,496	176,156	258,019	214,509	156,237	28,010	136,565
U. Texas Medical Branch	175,372	107,806	5,054	46,065	4,639	11,808	0
U. Texas Rio Grande Valley	52,016	13,629	6,309	27,496	218	3,996	368
U. Texas Southwestern Medical Center	496,697	203,544	79,363	68,457	31,317	59,096	54,920
U. Texas, Arlington	123,207	41,764	16,970	51,329	5,018	6,057	2,069
U. Texas, Austin	696,111	407,981	21,573	144,157	75,638	40,388	6,374
U. Texas, Dallas	126,661	48,466	12,133	38,469	4,762	22,831	0
U. Texas, El Paso	106,809	41,261	17,507	33,594	872	4,587	8,988
U. Texas, San Antonio	84,326	34,588	12,247	27,509	5,393	2,408	2,181
U. Texas, Tyler	2,063	813	295	541	247	73	94
West Texas A&M U.	5,437	1,565	1,587	1,197	963	62	63
Private	932,088	429,127	42,636	288,165	48,139	116,315	7,706
Baylor C. of Medicine	651,920	309,354	32,232	193,449	31,149	85,736	0
Baylor U.	33,304	6,955	1,157	19,443	1,152	2,955	1,642
Rice U.	182,564	83,584	6,013	53,316	10,814	23,426	5,411
Southern Methodist U.	42,562	17,869	1,092	18,220	3,343	2,034	4
St. Edward's U.	9,650	6,500	1,500	700	150	500	300
Texas Christian U.	6,552	2,866	590	1,144	1,531	240	181
Trinity U.	3,736	924	0	1,431	0	1,216	165
U. of the Incarnate Word	1,800	1,075	52	462	0	208	3
Utah	924,632	546,990	30,783	250,096	49,479	35,546	11,738
Public	885,050	523,089	29,509	242,692	46,147	32,330	11,283
U. Utah	601,133	302,585	6,199	217,878	39,084	31,700	3,687
Utah State U.	283,917	220,504	23,310	24,814	7,063	630	7,596
Private	39,582	23,901	1,274	7,404	3,332	3,216	455
Brigham Young U., Provo	39,582	23,901	1,274	7,404	3,332	3,216	455
Vermont	138,716	92,927	659	32,005	3,216	8,894	1,015
Public	135,859	90,405	659	31,729	3,210	8,841	1,015
U. Vermont	135,859	90,405	659	31,729	3,210	8,841	1,015
Private	2,857	2,522	0	276	6	53	0
Middlebury C.	1,657	1,558	0	40	6	53	0
Saint Michael's C.	1,200	964	0	236	0	0	0
Virginia	1,814,048	842,798	107,569	598,996	92,490	105,656	66,539
Public	1,788,655	826,549	107,223	591,438	92,300	104,617	66,528
Christopher Newport U.	1,961	1,285	43	265	111	90	167
Eastern Virginia Medical School	27,064	19,408	458	4,286	1,226	1,686	0
George Mason U.	186,267	96,307	3,370	41,291	8,900	35,852	547
James Madison U.	8,726	2,717	59	5,170	221	490	69

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Norfolk State U.	8,050	8,046	0	4	0	0	0
Old Dominion U.	67,425	31,355	10,109	21,337	1,430	2,675	519
U. of Mary Washington	1,315	577	35	577	0	94	32
U. Virginia, Charlottesville	613,938	276,335	7,277	211,202	25,830	36,059	57,235
Virginia Commonwealth U.	255,648	142,293	27,123	60,805	9,959	15,468	0
Virginia Polytechnic Institute and State U.	541,969	209,607	54,131	221,817	43,433	7,097	5,884
Virginia State U.	11,457	6,636	1,527	2,262	71	954	7
William & Mary	64,835	31,983	3,091	22,422	1,119	4,152	2,068
Private	25,393	16,249	346	7,558	190	1,039	11
Edward Via C. of Osteopathic Medicine	7,225	749	2	5,932	139	403	0
Hampton U.	13,605	13,390	0	215	0	0	0
Liberty U.	1,780	535	344	596	51	254	0
U. Richmond	2,783	1,575	0	815	0	382	11
Washington	1,829,550	1,169,318	81,093	257,480	72,763	207,974	40,922
Public	1,826,244	1,167,307	81,015	256,961	72,761	207,440	40,760
Central Washington U.	3,223	2,159	322	460	21	115	146
Eastern Washington U.	2,024	864	906	NA	123	84	47
Northwest Indian C.	2,659	2,520	0	24	0	115	0
U. Washington, Bothell	7,950	3,353	111	915	184	3,366	21
U. Washington, Seattle	1,425,601	992,643	27,125	117,341	58,211	194,296	35,985
U. Washington, Tacoma	3,471	2,808	452	184	0	26	1
Washington State U.	369,333	158,982	51,397	132,121	13,984	8,309	4,540
Western Washington U.	11,983	3,978	702	5,916	238	1,129	20
Private	3,306	2,011	78	519	2	534	162
Seattle U.	2,223	1,307	78	312	2	362	162
Whitman C.	1,083	704	0	207	0	172	0
West Virginia	212,963	96,562	11,883	76,244	6,254	6,239	15,781
Public	212,963	96,562	11,883	76,244	6,254	6,239	15,781
Marshall U.	19,622	9,617	2,025	6,107	413	1,460	0
West Virginia State U.	5,829	4,592	886	318	33	0	0
West Virginia U.	187,512	82,353	8,972	69,819	5,808	4,779	15,781
Wisconsin	1,652,475	771,449	116,173	518,225	57,286	139,361	49,981
Public	1,365,920	638,857	115,097	425,643	31,011	117,419	37,893
U. Wisconsin-Eau Claire	1,530	748	338	260	68	114	2
U. Wisconsin-Green Bay	2,083	821	502	640	41	77	2
U. Wisconsin-La Crosse	2,692	777	700	469	518	199	29
U. Wisconsin-Madison	1,297,331	608,925	94,861	415,634	26,518	115,774	35,619
U. Wisconsin-Milwaukee	53,773	23,342	17,335	6,836	3,508	1,071	1,681
U. Wisconsin-Oshkosh	1,713	1,282	0	0	0	0	431
U. Wisconsin-Platteville	1,084	339	276	183	248	29	9
U. Wisconsin-Stevens Point	3,464	1,096	960	1,111	71	153	73
U. Wisconsin-Superior	2,250	1,527	125	510	39	2	47
Private	286,555	132,592	1,076	92,582	26,275	21,942	12,088
Marquette U.	37,777	12,792	362	15,153	811	2,942	5,717
Medical C. Wisconsin	244,752	119,036	621	77,429	22,323	18,986	6,357
Milwaukee School of Engineering	4,026	764	93	0	3,141	14	14
Wyoming	80,353	52,082	4,594	17,939	3,619	1,599	520

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Public	80,353	52,082	4,594	17,939	3,619	1,599	520
U. Wyoming	80,353	52,082	4,594	17,939	3,619	1,599	520
American Samoa	860	860	0	0	0	0	0
Public	860	860	0	0	0	0	0
American Samoa Community C.	860	860	0	0	0	0	0
Guam	12,249	9,339	1,742	1,146	3	19	0
Public	12,249	9,339	1,742	1,146	3	19	0
U. Guam	12,249	9,339	1,742	1,146	3	19	0
Puerto Rico	121,074	80,444	2,115	29,854	5,201	712	2,748
Public	99,044	65,957	1,450	25,608	5,201	712	116
U. Puerto Rico, Cayey	1,870	963	0	722	0	185	0
U. Puerto Rico, Humacao	1,195	828	0	367	0	0	0
U. Puerto Rico, Mayaguez	26,877	15,653	517	9,252	993	417	45
U. Puerto Rico, Medical Sciences Campus	45,014	34,570	849	5,476	4,091	0	28
U. Puerto Rico, Rio Piedras	24,088	13,943	84	9,791	117	110	43
Private	22,030	14,487	665	4,246	0	0	2,632
Polytechnic U. Puerto Rico	2,118	1,884	0	234	0	0	0
Ponce Health Sciences U.	11,390	8,339	450	0	0	0	2,601
U. Ana G. Mendez, Cupey	624	608	0	16	0	0	0
U. Ana G. Mendez, Gurabo	3,945	951	0	2,994	0	0	0
U. Central del Caribe	3,953	2,705	215	1,002	0	0	31
Virgin Islands	12,236	10,445	359	1,385	47	0	0
Public	12,236	10,445	359	1,385	47	0	0
U. of the Virgin Islands	12,236	10,445	359	1,385	47	0	0

i = imputed. NA = not available; data were not provided by institution.

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

^b Johns Hopkins University includes the Applied Physics Laboratory, with \$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.