

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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	97,680,528	53,971,468	4,907,199	24,492,663	5,701,656	5,974,155	2,633,387
Public	63,712,945	33,333,946	4,503,012	17,368,946	3,419,441	3,331,506	1,756,094
Private	33,967,583	20,637,522	404,187	7,123,717	2,282,215	2,642,649	877,293
Alabama	1,431,393	779,272	68,758	437,472	87,132	40,619	18,140
Public	1,409,452	764,361	65,552	436,344	87,132	40,619	15,444
Alabama A&M U.	9,611	9,221	4	0	386	0	0
Alabama State U.	3,178	2,930	0	0	216	1	31
Auburn U., Auburn	304,439	104,883	33,555	143,876	8,338	1,912	11,875
Troy U.	2,517	2,296	48	135	38	0	0
U. Alabama, Birmingham	713,480	421,223	8,816	172,809	73,595	35,196	1,841
U. Alabama, Huntsville	169,532	132,060	5,091	30,776	626	496	483
U. Alabama, Tuscaloosa	163,204	67,986	17,040	73,435	2,701	1,631	411
U. South Alabama	43,491	23,762	998	15,313	1,232	1,383	803
Private	21,941	14,911	3,206	1,128	0	0	2,696
Tuskegee U.	21,941	14,911	3,206	1,128	0	0	2,696
Alaska	226,717	171,964	2,763	42,936	4,667	1,990	2,397
Public	225,110	171,383	2,763	42,936	3,652	1,990	2,386
U. Alaska, Anchorage	21,024	15,249	1,227	3,392	282	493	381
U. Alaska, Fairbanks	202,516	154,742	1,508	39,501	3,346	1,433	1,986
U. Alaska, Southeast	1,570	1,392	28	43	24	64	19
Private	1,607	581	0	0	1,015	0	11
Alaska Pacific U.	1,607	581	0	0	1,015	0	11
Arizona	1,690,904	729,574	136,865	552,382	51,204	92,415	128,464
Public	1,690,384	729,574	136,865	552,362	50,704	92,415	128,464
Arizona State U.	797,224	309,094	98,817	282,983	21,980	62,833	21,517
Dine C.	2,091	2,091	0	0	0	0	0
Northern Arizona U.	66,729	43,453	7,055	14,501	813	768	139
U. Arizona	824,340	374,936	30,993	254,878	27,911	28,814	106,808
Private	520	0	0	20	500	0	0
Sonoran U. Health Sciences	520	0	0	20	500	0	0
Arkansas	416,507	174,976	69,558	135,614	16,168	12,338	7,853
Public	416,507	174,976	69,558	135,614	16,168	12,338	7,853
Arkansas State U., Jonesboro	8,214	3,932	3,325	658	271	28	0
U. Arkansas for Medical Sciences	205,493	95,080	15,287	71,431	11,022	6,253	6,420

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U. Arkansas, Fayetteville	184,080	64,252	48,654	59,522	4,705	5,742	1,205
U. Arkansas, Little Rock	7,530	6,675	220	80	170	157	228
U. Arkansas, Pine Bluff	7,506	3,306	1,449	2,737	0	14	0
U. Central Arkansas	3,684	1,731	623	1,186	0	144	0
California	12,107,605	6,587,133	463,811	2,481,533	813,103	1,244,886	517,139
Public	8,558,137	4,495,513	419,587	1,842,888	523,159	865,626	411,364
California Polytechnic State U., San Luis Obispo	33,155	15,084	3,155	9,964	2,008	2,890	54
California State Polytechnic U., Humboldt	15,612	2,421	4,248	4,784	110	2,209	1,840
California State Polytechnic U., Pomona	7,909	5,407	846	1,441	204	11	0
California State U., Bakersfield	4,815	2,665	259	1,878	0	13	0
California State U., Channel Islands	3,377	1,638	746	690	267	36	0
California State U., Chico	4,177	2,312	763	422	130	44	506
California State U., Dominguez Hills	4,230	3,156	23	1,001	0	50	0
California State U., East Bay	19,035	8,997	693	8,232	2	1,036	75
California State U., Fresno	12,603	5,928	1,102	3,854	356	1,258	105
California State U., Fullerton	16,642	6,136	305	9,664	95	442	0
California State U., Long Beach	17,807	11,739	572	2,980	534	837	1,145
California State U., Los Angeles	9,839	8,605	130	943	0	161	0
California State U., Maritime Academy	526	192	105	10	219	0	0
California State U., Monterey Bay	8,975	5,051	1,404	2,300	50	164	6
California State U., Northridge	19,638	15,546	984	1,207	181	1,703	17
California State U., Sacramento	23,795	6,646	10,203	5,694	115	511	626
California State U., San Bernardino	11,929	6,693	2,445	2,657	3	131	0
California State U., San Marcos	9,238	7,986	980	265	0	7	0
California State U., Stanislaus	1,966	1,056	243	176	464	27	0
Naval Postgraduate School	64,055	44,852	0	18,483	313	66	341
San Diego State U.	123,856	50,540	4,812	64,484	457	2,489	1,074
San Francisco State U.	36,617	15,276	2,013	18,257	53	990	28
San Jose State U.	71,695	30,984	7,796	27,661	1,792	2,296	1,166
Sonoma State U.	3,774	2,889	406	298	40	141	0
U. California, Berkeley	981,035	468,542	37,894	210,324	69,062	169,790	25,423
U. California, Davis	883,807	468,468	71,806	211,277	50,684	42,552	39,020
U. California, Irvine	534,947	291,393	15,008	115,832	42,941	33,110	36,663
U. California, Los Angeles	1,536,197	848,138	89,554	287,147	87,218	187,416	36,724

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U. California, Merced	48,147	23,421	5,992	14,279	768	1,918	1,769
U. California, Office of the President	54,640	158	34,007	20,390	0	0	85
U. California, Riverside	199,135	114,257	8,566	51,532	6,267	8,538	9,975
U. California, San Diego	1,533,357	970,696	58,556	213,400	106,189	111,854	72,662
U. California, San Francisco	1,805,950	780,318	40,658	438,949	128,983	251,612	165,430
U. California, Santa Barbara	278,897	161,241	6,212	57,814	16,324	27,839	9,467
U. California, Santa Cruz	176,760	107,082	7,101	34,599	7,330	13,485	7,163
Private	3,549,468	2,091,620	44,224	638,645	289,944	379,260	105,775
Azusa Pacific U.	3,389	282	266	2,680	0	161	0
Biola U.	3,260	0	2	0	0	3,088	170
California Institute of Technology	478,142	326,401	5,009	54,587	17,200	52,970	21,975
California Lutheran U.	627	298	0	116	178	35	0
Chapman U.	34,212	11,098	854	13,710	425	7,989	136
Charles R. Drew U. of Medicine and Science	14,581	10,656	220	3,098	0	607	0
Claremont Graduate U.	8,382	1,610	342	1,113	3,384	1,381	552
Claremont McKenna C.	5,893	1,070	56	4,377	0	390	0
Harvey Mudd C.	3,350	1,956	0	1,020	2	138	234
High Tech High Graduate School of Ed.	6,203	0	0	0	0	6,203	0
Keck Graduate Institute	1,282	643	0	153	165	321	0
La Sierra U.	2,246	972	0	654	0	620	0
Loma Linda U.	15,517	9,134	630	3,012	1,358	942	441
Loyola Marymount U.	12,773	2,824	1,334	7,360	6	1,249	0
Marshall B. Ketchum U.	1,559 i	383 i	0 i	779 i	397 i	0 i	0 i
Occidental C.	4,139 i	2,622 i	484 i	NA	480 i	553 i	0 i
Pepperdine U.	3,775	883	19	885	0	1,988	0
Pomona C.	2,589	1,217	12	1,238	0	122	0
Santa Clara U.	4,225	2,660	299	NA	518	748	0
Scripps Research Institute	492,639	242,135	1,424	164,488	35,318	49,274	0
Stanford U.	1,384,555	860,125	20,064	169,346	138,118	189,536	7,366
Touro U., California	2,561	964	0	1,354	182	0	61
U. of the Pacific	1,835	1,351	413	NA	18	53	0
U. San Diego	10,143	2,911	510	5,842	0	576	304
U. San Francisco	2,657	547	265	1,123	0	717	5
U. Southern California	1,039,905	601,747	11,421	201,486	91,844	58,895	74,512

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Western U. of Health Sciences	9,029	7,131	600	224	351	704	19
Colorado	1,898,797	1,407,578	71,912	184,892	88,938	93,464	52,013
Public	1,849,590	1,380,167	67,235	176,849	87,001	87,327	51,011
Colorado School of Mines	98,404	66,200	1,446	13,739	9,580	2,329	5,110
Colorado State U., Fort Collins	456,911	316,727	30,749	65,700	11,888	22,618	9,229
Colorado State U., Pueblo	3,117	1,278	1,721	82	0	27	9
Fort Lewis C.	2,765	2,590	48	51	0	76	0
U. Colorado Anschutz Medical Campus ^a	611,358	429,949	24,575	47,955	52,346	43,531	13,002
U. Colorado Boulder	611,380	507,892	5,422	46,096	11,316	17,307	23,347
U. Colorado Colorado Springs	7,761	5,345	752	939	595	130	0
U. Colorado Denver ^a	18,080	12,668	2,422	1,063	453	1,160	314
U. Northern Colorado	3,308	1,692	100	1,224	143	149	0
U.S. Air Force Academy	36,506	35,826	0	0	680	0	0
Private	49,207	27,411	4,677	8,043	1,937	6,137	1,002
Colorado C.	3,646	1,371	258	1,090	0	927	0
U. Denver	45,561	26,040	4,419	6,953	1,937	5,210	1,002
Connecticut	1,587,047	931,776	7,291	460,465	88,066	90,640	8,809
Public	376,612	232,237	4,406	110,752	11,371	13,532	4,314
Central Connecticut State U.	1,035	511	58	459	0	4	3
Eastern Connecticut State U.	1,734	126	3	1,605	0	0	0
Southern Connecticut State U.	6,286	848	103	4,722	0	362	251
U. Connecticut	367,557	230,752	4,242	103,966	11,371	13,166	4,060
Private	1,210,435	699,539	2,885	349,713	76,695	77,108	4,495
Connecticut C.	1,875	620	0	1,252	0	0	3
Trinity C., Hartford	1,620	1,049	0	533	4	34	0
U. Hartford	1,090	886	17	117	6	64	0
U. New Haven	4,548	2,447	504	405	352	807	33
Wesleyan U.	10,101	5,267	0	3,652	93	1,052	37
Yale U.	1,191,201	689,270	2,364	343,754	76,240	75,151	4,422
Delaware	397,123	219,136	12,150	145,855	5,989	5,692	8,301
Public	397,123	219,136	12,150	145,855	5,989	5,692	8,301
Delaware State U.	29,016	24,361	598	3,457	150	440	10
U. Delaware	368,107	194,775	11,552	142,398	5,839	5,252	8,291
District of Columbia	783,163	384,514	6,530	219,463	24,865	104,996	42,795

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Public	14,699	13,779	920	0	0	0	0
National Defense U.	3,920	3,920	0	0	0	0	0
U. of the District of Columbia	10,779	9,859	920	0	0	0	0
Private	768,464	370,735	5,610	219,463	24,865	104,996	42,795
American U.	67,616	14,752	874	40,650	428	8,424	2,488
Catholic U. of America	38,191	26,285	130	4,211	370	7,195	0
Gallaudet U.	6,360	3,287	1	2,396	0	128	548
George Washington U.	275,483	161,867	2,264	67,384	5,048	25,886	13,034
Georgetown U.	313,220	127,213	1,144	81,692	16,111	61,547	25,513
Howard U.	67,594	37,331	1,197	23,130	2,908	1,816	1,212
Florida	3,048,253	1,489,852	284,429	1,002,273	111,840	110,968	48,891
Public	2,531,408	1,180,493	260,723	881,279	74,578	88,350	45,985
Florida A&M U.	50,636	41,943	1,510	6,256	334	593	0
Florida Atlantic U.	61,748	28,641	7,443	15,422	2,431	5,831	1,980
Florida Gulf Coast U.	9,896	6,482	1,823	214	110	1,211	56
Florida International U.	281,665	129,683	20,013	120,737	2,800	7,184	1,248
Florida Polytechnic U.	1,725	706	144	588	225	62	0
Florida State U.	355,986	163,744	24,003	152,444	4,914	3,723	7,158
U. Central Florida	221,488	110,131	8,500	82,434	11,278	5,068	4,077
U. Florida	1,085,834	467,739	171,655	327,074	39,233	51,825	28,308
U. North Florida	18,394	7,758	746	8,817	107	232	734
U. South Florida ^b	405,166	206,552	24,683	146,620	12,463	12,424	2,424
U. West Florida	38,870	17,114	203	20,673	683	197	0
Private	516,845	309,359	23,706	120,994	37,262	22,618	2,906
Embry-Riddle Aeronautical U.	28,650	23,863	358	1,425	1,002	225	1,777
Florida Institute of Technology	17,706	10,970	1,170	4,740	465	361	0
Nova Southeastern U.	31,189	9,314	3,571	16,839	417	616	432
U. Miami	439,300	265,212	18,607	97,990	35,378	21,416	697
Georgia	3,260,128	1,968,946	183,628	782,771	173,058	133,083	18,642
Public	2,191,995	1,322,856	182,620	511,206	104,094	59,096	12,123
Augusta U.	127,313	64,609	95	51,995	3,451	6,725	438
Fort Valley State U.	9,969	7,265	2,704	0	0	0	0
Georgia Institute of Technology	1,231,485	940,488	117,204	62,025	82,540	25,348	3,880
Georgia Southern U.	36,362	2,605	322	28,826	4,608	1	0

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Georgia State U.	215,908	81,641	6,415	112,773	502	13,940	637
Kennesaw State U.	21,705	3,290	529	17,003	205	543	135
Savannah State U.	1,888	1,881	7	0	0	0	0
U. Georgia	545,631	220,343	55,206	237,894	12,775	12,380	7,033
U. North Georgia	1,734	734	138	690	13	159	0
Private	1,068,133	646,090	1,008	271,565	68,964	73,987	6,519
Clark Atlanta U.	8,791	5,895	0	2,647	198	51	0
Emory U.	958,281	568,149	522	252,545	64,536	70,269	2,260
Mercer U.	50,222	32,504	46	9,218	4,083	112	4,259
Morehouse C.	5,664	5,664	0	0	0	0	0
Morehouse School of Medicine	42,489	31,339	440	7,155	0	3,555	0
Spelman C.	2,686	2,539	0	0	147	0	0
Hawaii	301,272	190,232	17,913	76,959	2,750	12,717	701
Public	297,970	187,565	17,865	76,955	2,435	12,477	673
U. Hawaii, Hilo	8,001	5,292	66	1,533	131	931	48
U. Hawaii, Manoa	277,323	169,762	17,799	75,287	2,304	11,546	625
U. Hawaii, system office	12,646	12,511	0	135	0	0	0
Private	3,302	2,667	48	4	315	240	28
Hawaii Pacific U.	3,302	2,667	48	4	315	240	28
Idaho	179,835	97,255	40,768	33,181	3,006	1,891	3,734
Public	179,835	97,255	40,768	33,181	3,006	1,891	3,734
Boise State U.	47,617	32,015	2,842	11,230	536	876	118
Idaho State U.	16,615	9,080	2,223	4,292	547	249	224
U. Idaho	115,603	56,160	35,703	17,659	1,923	766	3,392
Illinois	3,160,587	1,942,622	41,713	758,082	198,165	180,882	39,123
Public	1,338,296	718,791	38,203	416,526	69,783	67,719	27,274
Chicago State U.	3,701	3,699	0	0	0	2	0
Illinois State U.	25,510	8,673	487	14,540	54	1,752	4
Northeastern Illinois U.	2,224	2,224	0	0	0	0	0
Northern Illinois U.	27,068	9,840	774	14,986	634	606	228
Southern Illinois U., Carbondale	46,967	13,582	802	24,670	7,169	744	0
Southern Illinois U., Edwardsville	19,152	3,250	556	14,766	577	3	0
U. Illinois, Chicago	440,573	251,328	6,914	131,574	11,917	30,691	8,149
U. Illinois, Springfield	2,881	1,210	646	797	0	228	0

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U. Illinois, Urbana-Champaign	765,909	420,953	28,024	215,146	49,272	33,693	18,821
Western Illinois U.	4,311	4,032	0	47	160	0	72
Private	1,822,291	1,223,831	3,510	341,556	128,382	113,163	11,849
DePaul U.	8,362	3,757	169	2,195	260	1,948	33
Erikson Institute	2,068	815	178	125	0	950	0
Illinois Institute of Technology	29,791	25,963	2	1,759	948	371	748
Loyola U., Chicago	46,169	26,972	204	9,904	3,527	3,955	1,607
Midwestern U.	11,069	1,609	160	8,714	290	296	0
Northwestern U.	1,000,695	618,771	783	262,434	59,850	51,091	7,766
Rosalind Franklin U. of Medicine and Science	12,988	7,292	144	4,239	593	720	0
Rush U.	114,874	79,647	1,548	9,884	15,789	8,006	0
Toyota Technological Institute, Chicago	4,470	2,199	0	1,568	431	272	0
U. Chicago	591,805	456,806	322	40,734	46,694	45,554	1,695
Indiana	1,872,200	877,861	45,885	627,742	122,118	120,128	78,466
Public	1,589,905	752,223	45,398	533,370	105,780	98,783	54,351
Ball State U.	9,932	5,302	257	3,754	247	372	0
Indiana State U.	1,354	894	128	210	84	26	12
Indiana U., Bloomington	751,309	360,300	3,951	272,216	34,091	67,315	13,436
Indiana U.-Purdue U., Indianapolis	64,162	29,353	413	27,461	1,313	5,475	147
Purdue U., Fort Wayne	2,134	313	371	814	140	186	310
Purdue U., Northwest	6,387	3,171	767	1,323	477	128	521
Purdue U., West Lafayette	754,627	352,890	39,511	227,592	69,428	25,281	39,925
Private	282,295	125,638	487	94,372	16,338	21,345	24,115
Butler U.	1,691	1,227	0	216	113	135	0
U. Notre Dame	280,604	124,411	487	94,156	16,225	21,210	24,115
Iowa	1,005,800	508,226	43,761	364,805	51,317	36,806	885
Public	990,885	503,634	43,493	355,463	51,125	36,450	720
Iowa State U.	393,184	187,156	37,071	134,050	18,924	15,284	699
U. Iowa	594,215	314,346	5,957	220,605	32,201	21,085	21
U. Northern Iowa	3,486	2,132	465	808	0	81	0
Private	14,915	4,592	268	9,342	192	356	165
Des Moines U.	5,307	1,589	179	3,455	0	84	0
Drake U.	1,691	1,211	89	150	177	64	0
Grinnell C.	5,867	242	0	5,237	15	208	165

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Palmer C. of Chiropractic, Davenport	2,050	1,550	0	500	0	0	0
Kansas	882,644	376,471	89,850	222,010	159,137	20,290	14,886
Public	882,644	376,471	89,850	222,010	159,137	20,290	14,886
Kansas State U.	212,974	81,820	40,926	72,772	8,259	8,047	1,150
Pittsburg State U.	2,884	1,167	666	NA	1,051	0	0
U. Kansas	405,267	200,117	29,376	120,620	29,384	12,073	13,697
Wichita State U.	261,519	93,367	18,882	28,618	120,443	170	39
Kentucky	733,242	385,943	49,506	207,429	23,247	22,079	45,038
Public	733,242	385,943	49,506	207,429	23,247	22,079	45,038
Kentucky State U.	9,284	4,743	4,357	0	83	101	0
Morehead State U.	2,880	2,086	431	15	345	3	0
Murray State U.	3,371	2,176	23	1,060	112	0	0
Northern Kentucky U.	3,888	2,596	2	890	22	378	0
U. Kentucky	476,517	253,852	32,619	137,897	10,715	13,292	28,142
U. Louisville	229,582	117,363	11,543	63,606	11,915	8,259	16,896
Western Kentucky U.	7,720	3,127	531	3,961	55	46	0
Louisiana	941,868	404,974	93,956	285,226	105,251	28,259	24,202
Public	702,837	264,275	89,156	231,365	94,277	14,005	9,759
Grambling State U.	2,306 i	809 i	639 i	858 i	0 i	0 i	0 i
Louisiana State U., Baton Rouge	344,556	111,886	69,770	138,650	13,449	4,727	6,074
Louisiana State U., Health Sciences Center, New Orleans	53,995	33,087	168	13,488	3,193	3,275	784
Louisiana State U., Health Sciences Center, Shreveport	29,502	15,503	21	8,434	1,045	4,499	0
Louisiana Tech U.	26,591	5,734	2,532	15,621	713	0	1,991
Northwestern State U. Louisiana	1,848	742	838	268	0	0	0
Southeastern Louisiana U.	2,407	1,285	266	784	61	11	0
Southern U. and A&M C., Agricultural Research and Extension Center	7,048	4,261	2,765	22	0	0	0
Southern U. and A&M C., Baton Rouge	4,344	3,595	80	34	635	0	0
U. Louisiana, Lafayette	205,201	77,110	10,541	42,605	74,657	288	0
U. Louisiana, Monroe	3,128	1,993	748	208	41	138	0
U. New Orleans	21,911	8,270	788	10,393	483	1,067	910
Private	239,031	140,699	4,800	53,861	10,974	14,254	14,443
Dillard U.	2,270	1,422	0	848	0	0	0
Tulane U.	222,605	127,544	4,215	51,561	10,974	13,868	14,443
Xavier U. Louisiana	14,156	11,733	585	1,452	0	386	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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
Maine	191,739	95,051	22,403	64,293	3,974	3,623	2,395
Public	177,429	86,273	22,342	60,301	3,848	2,694	1,971
U. Maine	171,931	84,072	19,449	60,064	3,848	2,568	1,930
U. Southern Maine	5,498	2,201	2,893	237	0	126	41
Private	14,310	8,778	61	3,992	126	929	424
Bates C.	2,468	1,785	0	281	0	235	167
Bowdoin C.	2,648	1,867	46	635	0	91	9
Colby C.	2,530	1,466	0	573	0	243	248
U. New England	6,664	3,660	15	2,503	126	360	0
Maryland	5,168,958	4,055,588	99,124	620,194	157,683	218,721	17,648
Public	1,748,646	1,083,772	91,339	461,456	37,660	65,387	9,032
Bowie State U.	3,351	3,351	0	0	0	0	0
Morgan State U.	29,482	24,670	2,835	707	601	344	325
Salisbury U.	10,614	3,734	3,405	3,415	0	50	10
Towson U.	8,788	2,844	177	5,513	30	217	7
U. Baltimore	6,646	4,853	1,445	NA	4	259	85
U. Maryland ^c	1,228,550	750,447	49,950	334,100	34,844	52,546	6,663
U. Maryland Center for Environmental Science	53,718	15,109	26,071	10,222	223	1,792	301
U. Maryland, Baltimore County	110,319	65,368	7,264	31,743	1,958	2,611	1,375
U. Maryland, Eastern Shore	9,274	9,062	192	20	0	0	0
U.S. Naval Academy	10,664	10,147	0	0	0	251	266
Uniformed Services U. of the Health Sciences	277,240	194,187	0	75,736	0	7,317	0
Private	3,420,312	2,971,816	7,785	158,738	120,023	153,334	8,616
Johns Hopkins U. ^d	3,420,312	2,971,816	7,785	158,738	120,023	153,334	8,616
Massachusetts	4,837,383	2,705,310	50,116	1,111,829	321,346	477,250	171,532
Public	815,687	483,911	28,480	212,883	37,088	39,651	13,674
Framingham State U.	2,830	232	0	0	95	2,503	0
U. Massachusetts, Amherst	245,158	129,044	12,632	79,588	8,582	8,646	6,666
U. Massachusetts, Boston	65,215	23,131	8,852	25,606	2,043	4,958	625
U. Massachusetts, Dartmouth	33,136	11,162	1,519	18,713	1,035	440	267
U. Massachusetts, Lowell	111,144	62,195	2,599	39,067	4,463	2,112	708
U. Massachusetts, Medical School	358,204	258,147	2,878	49,909	20,870	20,992	5,408
Private	4,021,696	2,221,399	21,636	898,946	284,258	437,599	157,858
Amherst C.	7,177	2,862	0	2,130	0	127	2,058

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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
Babson C.	1,825	45	0	650	140	281	709
Bentley U.	1,161	509	0	0	0	652	0
Boston C.	68,958	36,560	1,439	13,949	652	15,649	709
Boston U.	725,402	413,102	752	187,662	22,525	84,116	17,245
Brandeis U.	102,378	44,205	1,027	40,627	1,100	11,813	3,606
Clark U.	8,813	2,500	77	4,552	0	1,577	107
Franklin W. Olin C. of Engineering	2,554	809	0	698	82	882	83
Harvard U.	1,308,458	628,683	5,379	415,763	62,034	179,073	17,526
Massachusetts Institute of Technology	989,166	531,056	2,523	117,128	165,200	100,640	72,619
MGH Institute of Health Professions	5,805	4,628	0	20	0	1,157	0
Mount Holyoke C.	2,112	1,511	0	285	0	316	0
New England C. of Optometry	1,868	1,609	52	108	88	11	0
Northeastern U.	231,607	150,093	1,747	55,478	12,107	11,909	273
Smith C.	5,831	2,403	0	1,740	248	1,440	0
Suffolk U.	1,401	340	0	996	0	65	0
Tufts U.	231,224	150,081	3,780	29,719	12,765	11,331	23,548
Wellesley C.	6,326	2,915	552	NA	89	2,008	762
Western New England U.	2,052	648	869	314	46	175	0
Williams C.	5,657 i	1,286 i	0 i	1,894 i	0 i	156 i	2,321 i
Woods Hole Oceanographic Institution	255,017	211,550	398	10,972	3,874	12,807	15,416
Worcester Polytechnic Institute	56,904	34,004	3,041	14,261	3,308	1,414	876
Michigan	3,082,410	1,611,073	61,599	1,109,643	138,028	120,241	41,826
Public	2,983,908	1,570,719	59,815	1,069,425	137,355	112,979	33,615
Central Michigan U.	25,105	9,773	1	14,061	157	794	319
Eastern Michigan U.	8,025	2,346	50	5,324	57	248	0
Grand Valley State U.	6,695	1,819	378	2,986	0	948	564
Lake Superior State U.	2,056	1,184	125	569	83	0	95
Michigan State U.	759,229	381,504	42,516	291,592	10,942	17,393	15,282
Michigan Technological U.	91,084	48,766	999	32,247	6,687	591	1,794
Northern Michigan U.	1,888	571	90	723	0	291	213
Oakland U.	38,061	9,533	2,911	18,539	2,613	2,636	1,829
Saginaw Valley State U.	2,862 i	2,341 i	0 i	388 i	5 i	112 i	16 i
U. Michigan, Ann Arbor	1,770,708	970,636	1,592	612,187	106,122	71,520	8,651
U. Michigan, Dearborn	8,180	2,537	9	3,259	2,070	223	82

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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
Wayne State U.	242,247	126,814	9,796	78,061	6,556	17,750	3,270
Western Michigan U. and Homer Stryker M.D. School of Medicine	27,768	12,895	1,348	9,489	2,063	473	1,500
Private	98,502	40,354	1,784	40,218	673	7,262	8,211
Albion C.	1,300 i	323 i	0 i	977 i	0 i	0 i	0 i
Calvin U.	3,169	931	12	559	24	1,376	267
Hope C.	6,355	3,691	0	1,928	0	625	111
Kettering U.	816	213	34	294	214	57	4
Lawrence Technological U.	3,050	1,109	1,037	154	192	558	0
U. Detroit Mercy	5,186	4,663	0	494	16	13	0
Van Andel Research Institute	78,626	29,424	701	35,812	227	4,633	7,829
Minnesota	1,241,862	663,217	80,078	363,811	53,266	46,788	34,702
Public	1,229,878	659,482	79,602	358,024	52,909	45,535	34,326
Minnesota State U., Mankato	2,206	575	110	1,300	0	18	203
St. Cloud State U.	2,226	401	235	690	601	299	0
U. Minnesota, Duluth	23,362	6,122	5,928	10,794	382	105	31
U. Minnesota, Twin Cities	1,202,084	652,384	73,329	345,240	51,926	45,113	34,092
Private	11,984	3,735	476	5,787	357	1,253	376
C. of Saint Benedict	1,228 i	51 i	0 i	1,177 i	0 i	0 i	0 i
Carleton C.	4,358	1,914	18	2,055	0	214	157
Macalester C.	1,691	943	51	459	0	238	0
Saint John's U.	1,298 i	0 i	0 i	1,298 i	0 i	0 i	0 i
St. Catherine U.	933	300	0	83	30	364	156
U. of St. Thomas (MN)	2,476	527	407	715	327	437	63
Mississippi	565,341	297,587	109,217	136,905	6,521	13,033	2,078
Public	563,005	295,251	109,217	136,905	6,521	13,033	2,078
Alcorn State U.	16,726 i	9,361 i	4,977 i	2,349 i	7 i	32 i	0 i
Jackson State U.	17,481	15,045	0	1,427	93	916	0
Mississippi State U.	303,418	138,207	92,113	60,534	3,170	7,928	1,466
U. Mississippi	152,903	84,270	183	61,653	2,696	3,489	612
U. Southern Mississippi	72,477	48,368	11,944	10,942	555	668	0
Private	2,336	2,336	0	0	0	0	0
Tougaloo C.	2,336 i	2,336 i	0 i	0 i	0 i	0 i	0 i
Missouri	1,708,351	992,049	39,685	399,008	149,915	113,425	14,269
Public	574,233	266,003	38,692	220,144	22,681	14,996	11,717

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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
Lincoln U., Jefferson City	11,500	8,988	2,512	NA	0	0	0
Missouri State U.	11,162	10,084	94	754	95	135	0
Missouri U. of Science and Technology	53,357	28,792	227	15,993	4,559	662	3,124
U. Missouri, Columbia	432,310	182,432	35,573	181,090	17,608	10,296	5,311
U. Missouri, Kansas City	52,657	31,134	225	17,201	338	969	2,790
U. Missouri, Saint Louis	13,247	4,573	61	5,106	81	2,934	492
Private	1,134,118	726,046	993	178,864	127,234	98,429	2,552
Saint Louis U.	82,740	42,170	355	22,991	5,459	11,584	181
U. of Health Sciences and Pharmacy in St. Louis	4,280	2,523	0	977	635	145	0
Washington U., Saint Louis	1,047,098	681,353	638	154,896	121,140	86,700	2,371
Montana	340,611	198,081	24,891	105,738	2,537	5,428	3,936
Public	340,611	198,081	24,891	105,738	2,537	5,428	3,936
Montana State U., Bozeman	200,820	118,974	18,147	55,164	1,546	3,208	3,781
Montana Technological U.	14,188	5,600	6,085	2,221	282	0	0
U. Montana, Missoula	125,603	73,507	659	48,353	709	2,220	155
Nebraska	626,792	283,097	80,399	190,452	29,739	21,571	21,534
Public	599,183	271,075	76,697	181,459	28,450	21,251	20,251
U. Nebraska, central administration	25,402	23,872	0	1,498	0	0	32
U. Nebraska, Kearney	4,009	1,900	530	1,459	48	0	72
U. Nebraska, Lincoln	340,260	113,248	61,070	134,864	19,767	6,247	5,064
U. Nebraska, Medical Center	205,253	114,754	12,652	39,600	8,591	14,617	15,039
U. Nebraska, Omaha	24,259	17,301	2,445	4,038	44	387	44
Private	27,609	12,022	3,702	8,993	1,289	320	1,283
Creighton U.	27,609	12,022	3,702	8,993	1,289	320	1,283
Nevada	312,714	131,036	10,036	148,549	5,509	7,212	10,372
Public	306,418	131,006	10,036	142,391	5,403	7,210	10,372
Desert Research Institute	28,478	17,341	385	4,377	960	4,381	1,034
Nevada State C.	1,191	1,167	0	22	0	2	0
U. Nevada, Las Vegas	94,967	28,867	2,174	59,398	1,656	809	2,063
U. Nevada, Reno	181,782	83,631	7,477	78,594	2,787	2,018	7,275
Private	6,296	30	0	6,158	106	2	0
Roseman U. of Health Sciences	6,296	30	0	6,158	106	2	0
New Hampshire	551,187	285,737	5,282	213,359	12,276	25,050	9,483
Public	207,061	130,292	3,938	56,975	9,893	5,107	856

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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
Plymouth State U.	669	571	0	84	0	0	14
U. New Hampshire	206,392	129,721	3,938	56,891	9,893	5,107	842
Private	344,126	155,445	1,344	156,384	2,383	19,943	8,627
Dartmouth C. and Dartmouth Hitchcock Medical Center	344,126	155,445	1,344	156,384	2,383	19,943	8,627
New Jersey	1,516,963	734,412	116,585	373,348	68,609	161,644	62,365
Public	994,536	471,559	111,824	263,333	47,989	86,282	13,549
C. New Jersey	3,464	1,984	186	579	0	715	0
Kean U.	5,499	715	180	4,548	15	41	0
Montclair State U.	32,202	5,189	619	24,540	54	1,683	117
New Jersey Institute of Technology	167,135	71,326	14,576	62,576	1,872	7,207	9,578
Rowan U.	29,949	18,613	4,720	4,546	1,177	893	0
Rutgers, State U. New Jersey, Camden	6,480	3,349	60	2,003	330	724	14
Rutgers, State U. New Jersey, New Brunswick	712,231	351,660	90,882	149,889	44,250	71,821	3,729
Rutgers, State U. New Jersey, Newark	28,345	16,099	421	8,531	167	3,041	86
Stockton U.	1,657	728	180	720	3	26	0
William Paterson U.	7,574	1,896	0	5,401	121	131	25
Private	522,427	262,853	4,761	110,015	20,620	75,362	48,816
Monmouth U.	1,938	535	505	93	407	397	1
Princeton U.	461,185	218,390	255	102,851	17,455	73,840	48,394
Seton Hall U.	5,741	2,092	1,737	1,176	150	586	0
Stevens Institute of Technology	53,563	41,836	2,264	5,895	2,608	539	421
New Mexico	543,867	378,374	40,059	87,011	9,998	20,105	8,320
Public	543,867	378,374	40,059	87,011	9,998	20,105	8,320
New Mexico Highlands U.	1,331 i	1,288 i	0 i	0 i	0 i	43 i	0 i
New Mexico Institute of Mining and Technology	89,900	72,594	10,532	2,895	2,922	269	688
New Mexico State U.	121,472	71,718	23,036	16,167	2,451	2,366	5,734
U. New Mexico	331,164	232,774	6,491	67,949	4,625	17,427	1,898
New York	8,280,323	4,446,597	340,868	1,964,999	587,571	588,442	351,846
Public	1,777,187	723,231	194,549	552,635	224,232	57,347	25,193
CUNY, Advanced Science Research Center	16,507	12,580	365	2,226	324	888	124
CUNY, Baruch C.	3,156	1,894	23	640	0	505	94
CUNY, Brooklyn C.	6,220	4,623	0	1,418	3	160	16
CUNY, C. Staten Island	3,545	2,916	93	342	1	133	60
CUNY, City C.	65,569	38,596	11,892	13,103	467	1,311	200

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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
CUNY, Graduate Center	5,509	2,535	154	1,080	0	1,208	532
CUNY, Graduate School of Public Health and Health Policy	16,423	11,880	318	2,189	658	1,340	38
CUNY, Hunter C.	35,348	21,142	3,367	8,895	716	1,165	63
CUNY, John Jay C. of Criminal Justice	16,233	5,777	3,516	3,492	144	2,171	1,133
CUNY, Lehman C.	4,656	3,652	10	421	177	273	123
CUNY, New York City C. of Technology	1,955	1,769	16	120	20	0	30
CUNY, Queens C.	21,434	14,756	1,362	4,717	83	439	77
CUNY, system office	2,900	798	1,528	223	99	252	0
CUNY, York C.	1,912	1,659	0	189	0	64	0
SUNY, Binghamton U.	130,882	24,888	5,225	94,515	3,458	1,306	1,490
SUNY, Buffalo State	2,172	1,299	658	189	5	1	20
SUNY, C. Brockport	1,500	751	166	435	23	43	82
SUNY, C. of Environmental Science and Forestry	32,904	7,766	14,020	8,411	795	817	1,095
SUNY, C. of Optometry	4,497	2,080	0	708	1,642	56	11
SUNY, C. Plattsburgh	1,043	584	46	334	0	57	22
SUNY, Cobleskill	1,211	379	828	0	4	0	0
SUNY, Downstate Health Sciences U.	30,918	25,081	31	3,816	177	1,475	338
SUNY, Geneseo	2,091	1,564	8	502	0	17	0
SUNY, Oswego	1,209	544	36	549	0	74	6
SUNY, Polytechnic Institute	413,763	32,396	97,519	110,878	169,101	223	3,646
SUNY, Stony Brook U.	312,698	184,154	16,238	88,630	9,512	11,750	2,414
SUNY, U. Albany	129,796	51,492	1,234	71,042	735	2,963	2,330
SUNY, U. Buffalo	439,709	218,231	33,635	122,816	29,723	26,045	9,259
SUNY, Upstate Medical U.	50,586	27,737	2,261	10,660	5,883	2,331	1,714
U.S. Military Academy	20,841	19,708	0	95	482	280	276
Private	6,503,136	3,723,366	146,319	1,412,364	363,339	531,095	326,653
Albany C. of Pharmacy and Health Sciences	2,276	1,110	0	769	250	147	0
Albany Medical C.	22,297	13,384	0	3,132	3,606	689	1,486
Albert Einstein C. of Medicine	318,314	220,780	719	73,665	3,820	19,330	0
Alfred U.	3,477	1,008	1,659	517	264	29	0
Barnard C.	4,988	3,758	0	652	39	539	0
Canisius C.	1,160	454	0	0	0	706	0
Clarkson U.	21,703	8,834	2,713	8,116	1,363	508	169
Cold Spring Harbor Laboratory	118,034	59,163	134	36,235	3,766	18,736	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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
Colgate U.	4,343	1,570	0	2,625	78	66	4
Columbia U. in the City of New York	1,230,924	904,346	6,391	113,189	83,684	121,435	1,879
Cornell U.	1,300,357	636,481	88,200	250,308	55,328	115,788	154,252
Fordham U.	20,432	4,856	0	13,005	27	1,523	1,021
Hamilton C.	1,879	338	0	1,039	0	410	92
Hobart and William Smith Colleges	3,228	1,264	955	557	0	201	251
Hofstra U.	6,939	2,118	139	4,485	0	197	0
Icahn School of Medicine at Mount Sinai	893,968	610,646	3,652	132,627	81,384	50,251	15,408
Ithaca C.	1,000	703	46	149	0	23	79
Long Island U.	17,183	2,652	0	13,962	184	334	51
Manhattan C.	1,641	440	316	367	518	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	4,954	858	0	3,799	0	91	206
New School	19,218	1,261	298	3,023	2	11,860	2,774
New York Institute of Technology	5,555	2,988	167	2,180	0	220	0
New York Medical C.	16,461	9,070	985	813	2,947	1,980	666
New York U.	1,276,038	668,381	17,982	296,131	58,776	101,175	133,593
Pace U.	3,524	2,534	0	711	0	279	0
Pratt Institute	2,325	228	995	5	0	1,097	0
Rensselaer Polytechnic Institute	121,809	50,605	3,485	47,193	15,282	2,012	3,232
Rochester Institute of Technology	62,383	33,373	7,076	16,109	2,789	1,998	1,038
Rockefeller U.	360,877	94,693	102	225,209	2,292	37,218	1,363
Skidmore C.	1,734	861	0	337	0	536	0
St. John's U., New York	3,592	2,456	0	326	195	387	228
Syracuse U.	157,407	33,976	3,890	101,347	8,568	9,378	248
Teachers C., Columbia U.	30,978	10,177	4,357	NA	1,846	12,335	2,263
U. Rochester	450,805	334,503	2,037	53,315	36,329	18,783	5,838
Union C., Schenectady	1,479	750	0	596	2	107	24
Vassar C.	2,580	1,052	21	1,106	0	378	23
Yeshiva U.	7,274	1,695	0	4,765	0	349	465
North Carolina	3,870,874	2,319,789	198,727	747,610	343,150	212,111	49,487
Public	2,203,957	1,233,562	188,038	551,589	112,763	97,843	20,162
Appalachian State U.	7,189	2,567	103	3,129	617	771	2
East Carolina U.	55,693	29,648	408	19,542	3,991	1,783	321
Elizabeth City State U.	1,934	1,667	206	NA	61	0	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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
Fayetteville State U.	3,206	1,667	479	898	116	46	0
North Carolina A&T State U.	47,908	29,094	3,899	14,445	261	195	14
North Carolina Central U.	16,600	13,709	954	NA	434	776	727
North Carolina State U.	583,203	250,582	130,707	145,171	52,960	3,451	332
U. North Carolina, Asheville	5,973	2,600	542	543	54	2,234	0
U. North Carolina, Chapel Hill	1,361,028	827,158	38,681	343,102	49,664	84,942	17,481
U. North Carolina, Charlotte	43,126	26,871	1,158	11,848	2,689	560	0
U. North Carolina, general administration	3,522	369	3,153	0	0	0	0
U. North Carolina, Greensboro	41,303	29,822	524	9,054	593	579	731
U. North Carolina, Wilmington	20,053	7,178	6,644	3,338	1,166	1,638	89
Western Carolina U.	2,783	1,727	297	519	157	83	0
Winston-Salem State U.	10,436	8,903	283	0	0	785	465
Private	1,666,917	1,086,227	10,689	196,021	230,387	114,268	29,325
Davidson C.	2,788	1,370	4	702	31	542	139
Duke U.	1,390,538	901,807	802	167,200	208,132	92,526	20,071
Elon U.	1,797	428	0	1,303	0	47	19
Johnson C. Smith U.	2,685	1,868	674	0	12	131	0
Wake Forest U.	269,109	180,754	9,209	26,816	22,212	21,022	9,096
North Dakota	322,621	108,080	76,507	115,128	15,066	1,591	6,249
Public	322,621	108,080	76,507	115,128	15,066	1,591	6,249
North Dakota State U.	174,904	45,343	50,066	71,056	1,507	864	6,068
U. North Dakota	147,717	62,737	26,441	44,072	13,559	727	181
Ohio	3,079,902	1,800,562	92,684	789,803	212,530	125,146	59,177
Public	2,396,788	1,214,913	84,764	734,612	202,054	104,275	56,170
Air Force Institute of Technology	44,391	32,479	0	11,869	43	0	0
Bowling Green State U.	19,342	7,918	1,649	8,895	122	758	0
Central State U.	10,274	5,576	3,039	1,659	0	0	0
Cleveland State U.	81,225	53,395	848	18,497	3,481	4,812	192
Kent State U.	52,175	16,195	1,308	32,748	640	1,242	42
Miami U.	28,799	10,277	1,997	13,843	1,375	969	338
Northeast Ohio Medical U.	13,465	9,400	47	3,197	0	821	0
Ohio State U.	1,363,388	636,902	66,409	424,790	141,894	52,073	41,320
Ohio U.	52,465	20,587	1,035	26,187	3,634	634	388
U. Akron	19,943	11,036	160	5,608	2,102	893	144

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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. Cincinnati	615,070	350,392	6,044	161,967	45,002	38,204	13,461
U. Toledo	64,654	36,694	1,211	19,679	3,312	3,509	249
Wright State U.	27,440	20,529	757	5,368	407	343	36
Youngstown State U.	4,157	3,533	260	305	42	17	0
Private	683,114	585,649	7,920	55,191	10,476	20,871	3,007
C. Wooster	1,717	737	0	797	0	183	0
Case Western Reserve U.	467,389	380,423	6,503	53,133	4,856	20,142	2,332
Heidelberg U.	1,184	262	661	246	0	15	0
Kenyon C.	1,330	1,021	0	162	0	123	24
U. Dayton	211,494	203,206	756	853	5,620	408	651
Oklahoma	650,977	281,427	50,747	266,143	33,474	15,074	4,112
Public	633,561	275,534	50,427	262,120	27,344	14,107	4,029
Langston U.	6,481	3,616	0	2,449	416	0	0
Oklahoma State U., Center for Health Sciences	8,368	3,366	35	4,897	53	17	0
Oklahoma State U., Stillwater	195,041	53,885	21,322	106,925	11,236	1,351	322
U. Central Oklahoma	7,070 i	1,869 i	747 i	4,365 i	85 i	3 i	1 i
U. Oklahoma, Norman and Health Science Center	408,656	210,994	26,614	140,592	15,450	11,616	3,390
U. Oklahoma, Tulsa	7,945	1,804	1,709	2,892	104	1,120	316
Private	17,416	5,893	320	4,023	6,130	967	83
U. Tulsa	17,416	5,893	320	4,023	6,130	967	83
Oregon	1,001,028	674,193	60,639	142,746	53,574	53,511	16,365
Public	984,229	667,845	60,103	133,938	53,529	52,580	16,234
Oregon Health and Science U.	479,226	346,724	1,322	45,950	43,965	40,925	340
Oregon Institute of Technology	5,086 i	340	4,431 i	NA	109 i	206 i	0
Oregon State U.	297,934	192,621	50,654	28,792	8,037	2,772	15,058
Portland State U.	41,483	30,922	2,635	3,949	636	2,882	459
U. Oregon	160,500	97,238	1,061	55,247	782	5,795	377
Private	16,799	6,348	536	8,808	45	931	131
Lewis and Clark C.	2,566	746	0	1,522	0	298	0
Pacific U.	6,128	2,672	498	2,670	45	243	0
Reed C.	5,922 i	2,139 i	38 i	3,272 i	0 i	342 i	131 i
Willamette U.	2,183	791	0	1,344	0	48	0
Pennsylvania	5,454,961	3,122,812	119,742	1,433,805	369,954	289,628	119,020
Public	2,601,766	1,653,304	67,896	597,872	87,947	112,841	81,906

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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
East Stroudsburg U. Pennsylvania	1,410	598	44	149	0	619	0
Indiana U. Pennsylvania	6,313	1,797	729	3,303	0	469	15
Pennsylvania State U., Behrend	6,384	3,262	405	1,345	848	514	10
Pennsylvania State U., Harrisburg	2,927	1,911	491	251	173	101	0
Pennsylvania State U., University Park and Hershey Medical Center	1,019,940	681,159	47,345	207,630	24,121	30,128	29,557
Temple U.	301,395	143,580	8,109	99,543	26,463	17,459	6,241
U. Pittsburgh, Pittsburgh	1,251,998	814,647	10,753	281,033	36,310	63,172	46,083
U.S. Army War C.	5,496 i	5,496 i	0 i	0 i	0 i	0 i	0 i
West Chester U. Pennsylvania	5,903	854	20	4,618	32	379	0
Private	2,853,195	1,469,508	51,846	835,933	282,007	176,787	37,114
Bryn Mawr C.	9,123	1,257	0	7,692	0	174	0
Bucknell U.	5,259	2,539	0	1,150	369	236	965
Carnegie Mellon U.	449,707	259,160	4,379	123,903	42,115	13,772	6,378
Drexel U.	151,903	99,399	3,418	36,121	2,323	7,882	2,760
Duquesne U.	13,944	6,309	928	4,043	217	2,447	0
Franklin and Marshall C.	4,440	1,680	266	1,555	339	333	267
Haverford C.	4,487	2,722	0	852	0	381	532
Lafayette C.	2,059	1,300	0	605	32	110	12
Lehigh U.	51,769	36,535	2,342	11,162	595	1,060	75
Mercyhurst U.	661	82	387	59	108	6	19
Philadelphia C. of Osteopathic Medicine	6,667	40	57	2,675	2,300	1,595	0
Robert Morris U.	1,000 i	577 i	13 i	235 i	67 i	81 i	27 i
Saint Joseph's U.	9,041	2,520	1,205	2,609	2,252	455	0
Swarthmore C.	4,225	1,733	6	2,130	0	356	0
Thomas Jefferson U.	321,644	173,861	14,252	63,739	26,469	24,927	18,396
U. Pennsylvania	1,791,311	873,318	23,189	562,094	204,216	120,832	7,662
Villanova U.	25,955	6,476	1,404	15,309	605	2,140	21
Rhode Island	458,694	320,509	10,983	82,078	5,581	32,536	7,007
Public	145,758	104,091	10,809	24,814	1,304	3,832	908
Naval War C.	5,529	5,529	0	0	0	0	0
Rhode Island C.	11,127	5,372	5,301	92	0	362	0
U. Rhode Island	129,102	93,190	5,508	24,722	1,304	3,470	908
Private	312,936	216,418	174	57,264	4,277	28,704	6,099
Brown U.	310,780	215,067	9	56,819	4,247	28,539	6,099

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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
Roger Williams U.	2,156	1,351	165	445	30	165	0
South Carolina	805,510	409,143	45,090	273,511	43,025	22,959	11,782
Public	801,681	406,684	45,068	272,442	43,000	22,790	11,697
C. Charleston	6,421	4,485	383	1,032	40	465	16
Citadel Military C. South Carolina	4,374	3,741	270	336	3	20	4
Clemson U.	263,158	119,512	25,685	95,211	17,690	4,796	264
Coastal Carolina U.	3,724	1,130	948	1,580	0	66	0
Medical U. South Carolina	284,553	163,395	4,565	76,566	20,932	9,097	9,998
South Carolina State U.	4,270 i	4,270 i	NA	NA	NA	NA	NA
U. South Carolina, Aiken	2,595	857	0	1,729	0	9	0
U. South Carolina, Columbia	229,162	106,752	13,021	95,360	4,322	8,292	1,415
Winthrop U.	3,424	2,542	196	628	13	45	0
Private	3,829	2,459	22	1,069	25	169	85
Clafin U.	1,179	1,179	0	0	0	0	0
Furman U.	2,650	1,280	22	1,069	25	169	85
South Dakota	117,368	58,169	20,008	22,079	2,135	3,091	11,886
Public	116,644	57,445	20,008	22,079	2,135	3,091	11,886
Black Hills State U.	1,987	1,676	119	192	0	0	0
Dakota State U.	4,684	3,976	236	382	84	6	0
South Dakota School of Mines and Technology	20,061	15,100	1,467	2,488	741	55	210
South Dakota State U.	59,590	22,991	16,267	4,841	1,278	2,537	11,676
U. South Dakota	30,322	13,702	1,919	14,176	32	493	0
Private	724	724	0	0	0	0	0
Augustana U.	724	724	0	0	0	0	0
Tennessee	1,715,468	958,144	41,526	549,263	98,331	53,491	14,713
Public	607,285	273,328	38,479	247,181	15,093	21,549	11,655
Austin Peay State U.	3,149	870	1,186	984	0	89	20
East Tennessee State U.	23,420	9,715	315	9,214	35	3,881	260
Middle Tennessee State U.	22,631	4,347	509	16,715	261	799	0
Tennessee State U.	18,012	10,859	567	6,466	4	116	0
Tennessee Technological U.	16,398	8,156	4,256	3,464	117	146	259
U. Memphis	71,271	24,686	8,365	33,900	1,084	3,045	191
U. Tennessee, Chattanooga	12,808	5,214	1,291	5,510	106	229	458
U. Tennessee, Health Science Center	115,161	60,221	6,205	32,641	3,958	6,232	5,904

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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. Tennessee, Knoxville	324,435	149,260	15,785	138,287	9,528	7,012	4,563
Private	1,108,183	684,816	3,047	302,082	83,238	31,942	3,058
Fisk U.	4,000	3,486	93	10	0	411	0
Meharry Medical C.	17,960	15,048	0	648	25	2,239	0
Vanderbilt U. and Vanderbilt U. Medical Center	1,086,223	666,282	2,954	301,424	83,213	29,292	3,058
Texas	7,440,455	3,106,159	972,083	2,100,792	530,526	431,324	299,571
Public	6,239,913	2,536,159	928,132	1,664,003	484,699	335,605	291,315
Lamar U.	5,304	1,180	3,639	220	167	98	0
Prairie View A&M U.	20,429	11,665	4,037	3,898	327	502	0
Sam Houston State U.	12,009	4,936	132	6,444	1	382	114
Stephen F. Austin State U.	3,184	879	1,326	511	22	267	179
Sul Ross State U.	2,526	623	151	143	30	941	638
Tarleton State U.	20,056	5,055	3,927	10,533	257	284	0
Texas A&M International U.	4,486	1,624	917	1,093	73	751	28
Texas A&M U., College Station and Health Science Center	1,152,666	505,355	218,735	315,112	35,535	47,156	30,773
Texas A&M U.-Commerce	4,955	1,776	222	2,783	4	153	17
Texas A&M U.-Corpus Christi	36,014	15,229	9,903	5,287	90	2,782	2,723
Texas A&M U.-Kingsville	23,451	8,225	6,241	2,812	389	5,647	137
Texas A&M U.-San Antonio	1,242	394	119	570	22	60	77
Texas Southern U.	12,120	7,550	1,150	3,362	0	58	0
Texas State U.	110,102	38,936	3,810	60,338	1,102	5,800	116
Texas Tech U.	226,729	45,136	29,861	121,050	13,367	16,426	889
Texas Tech U., Health Sciences Center	46,574	14,620	16,937	9,544	508	2,963	2,002
Texas Tech U., Health Sciences Center, El Paso	14,206	2,339	2,856	8,097	475	438	1
Texas Woman's U.	6,029	2,091	2,386	883	135	534	0
U. Houston	240,126	84,295	28,999	107,699	9,709	6,502	2,922
U. Houston-Clear Lake	1,800	841	408	91	399	61	0
U. Houston-Downtown	1,485	903	57	238	0	287	0
U. North Texas, Denton	93,538	23,056	5,007	61,728	1,979	1,762	6
U. North Texas, Health Science Center	10,439	3,172	0	6,615	502	14	136
U. Texas Health Science Center, Houston	342,633	184,205	46,379	55,120	15,764	28,031	13,134
U. Texas Health Science Center, San Antonio	238,510	119,071	27,587	57,408	9,276	24,858	310
U. Texas Health Science Center, Tyler	33,872	14,362	8,127	6,016	858	4,509	0
U. Texas M. D. Anderson Cancer Center	1,182,536	225,659	297,033	231,583	241,850	34,523	151,888

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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. Texas Medical Branch	204,518	123,467	8,481	53,371	7,267	11,932	0
U. Texas of the Permian Basin	3,577	1,538	685	756	132	466	0
U. Texas Rio Grande Valley	64,401	18,317	5,380	32,862	212	7,326	304
U. Texas Southwestern Medical Center	719,002	298,154	85,808	166,635	47,282	54,435	66,688
U. Texas, Arlington	133,770	56,025	27,482	38,339	2,935	6,948	2,041
U. Texas, Austin	845,896	536,296	31,721	151,594	76,512	45,893	3,880
U. Texas, Dallas	130,914	60,706	13,882	32,378	9,499	14,449	0
U. Texas, El Paso	130,501	60,387	15,999	41,654	1,177	2,151	9,133
U. Texas, San Antonio	147,629	54,384	13,795	64,443	5,765	6,123	3,119
U. Texas, Tyler	3,246	1,585	651	821	111	64	14
West Texas A&M U.	9,438	2,123	4,302	1,972	966	29	46
Private	1,200,542	570,000	43,951	436,789	45,827	95,719	8,256
Abilene Christian U.	6,310	1,032	0	231	4,907	140	0
Baylor C. of Medicine	827,005	420,054	35,155	292,730	28,251	50,815	0
Baylor U.	66,014	15,856	2,211	34,144	3,165	7,682	2,956
Rice U.	216,202	105,345	5,071	63,401	5,535	31,834	5,016
Southern Methodist U.	57,544	17,680	1,106	33,929	1,918	2,751	160
St. Edward's U.	3,393	1,940	101	1,150	15	160	27
Texas Christian U.	18,353	5,670	302	9,201	2,028	1,096	56
Trinity U.	3,657	1,345	5	1,117	0	1,149	41
U. of the Incarnate Word	2,064	1,078	0	886	8	92	0
Utah	1,062,475	680,822	27,112	256,513	53,521	34,371	10,136
Public	1,016,865	649,186	26,080	249,551	49,944	32,200	9,904
U. Utah	670,119	367,040	3,347	221,473	43,073	31,556	3,630
Utah State U.	344,851	280,866	22,243	28,019	6,871	578	6,274
Utah Valley U.	1,895	1,280	490	59	0	66	0
Private	45,610	31,636	1,032	6,962	3,577	2,171	232
Brigham Young U., Provo	45,610	31,636	1,032	6,962	3,577	2,171	232
Vermont	218,910	119,444	1,389	82,461	2,785	7,344	5,487
Public	216,307	117,163	1,379	82,412	2,785	7,081	5,487
U. Vermont	216,307	117,163	1,379	82,412	2,785	7,081	5,487
Private	2,603	2,281	10	49	0	263	0
Middlebury C.	2,603	2,281	10	49	0	263	0
Virginia	2,117,336	969,660	147,155	721,967	94,893	98,968	84,693

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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	2,094,785	956,102	147,066	713,765	94,819	98,381	84,652
Christopher Newport U.	2,762	1,701	0	855	48	158	0
Eastern Virginia Medical School	22,165	17,616	1,186	2,603	148	612	0
George Mason U.	230,068	119,406	5,816	55,812	6,969	35,685	6,380
James Madison U.	17,021	2,884	798	12,602	218	518	1
Norfolk State U.	3,593	3,398	89	0	0	106	0
Old Dominion U.	64,877	27,804	12,866	19,957	820	2,515	915
U. of Mary Washington	1,229	501	54	601	6	39	28
U. Virginia's C. Wise	2,628	786	837	965	4	36	0
U. Virginia, Charlottesville	662,658	332,993	9,520	187,912	32,511	32,320	67,402
Virginia Commonwealth U.	405,898	166,726	34,539	173,811	16,124	14,537	161
Virginia Military Institute	1,746	1,137	221	378	0	10	0
Virginia Polytechnic Institute and State U.	591,861	240,305	75,010	225,690	37,005	6,972	6,879
Virginia State U.	12,326	7,115	2,006	2,544	0	661	0
William & Mary	75,953	33,730	4,124	30,035	966	4,212	2,886
Private	22,551	13,558	89	8,202	74	587	41
Edward Via C. of Osteopathic Medicine	7,121	482	58	6,520	8	53	0
Hampton U.	11,462	11,274	0	188	0	0	0
Marymount U.	1,298	178	31	965	66	58	0
U. Richmond	2,670	1,624	0	529	0	476	41
Washington	1,972,326	1,295,518	77,227	230,056	70,422	249,757	49,346
Public	1,968,111	1,293,161	77,150	228,794	70,419	249,241	49,346
Central Washington U.	3,176	2,429	266	350	55	42	34
Eastern Washington U.	2,437	855	1,332	NA	13	149	88
Northwest Indian C.	5,632	4,298	0	1,334	0	0	0
U. Washington, Bothell	8,197	4,009	259	786	85	3,007	51
U. Washington, Seattle	1,559,708	1,083,090	19,188	117,096	61,099	231,172	48,063
U. Washington, Tacoma	5,484	4,553	432	207	0	138	154
Washington State U.	368,396	187,580	54,610	103,067	9,099	13,119	921
Western Washington U.	15,081	6,347	1,063	5,954	68	1,614	35
Private	4,215	2,357	77	1,262	3	516	0
Seattle U.	1,894	1,143	52	471	3	225	0
U. Puget Sound	1,051	780	0	174	0	97	0
Whitman C.	1,270	434	25	617	0	194	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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
West Virginia	248,022	118,659	13,290	87,833	5,336	4,486	18,418
Public	247,805	118,442	13,290	87,833	5,336	4,486	18,418
Marshall U.	25,692	16,369	1,909	6,479	320	615	0
West Virginia School of Osteopathic Medicine	1,329	468	11	850	0	0	0
West Virginia State U.	6,703	4,278	1,601	815	0	9	0
West Virginia U.	214,081	97,327	9,769	79,689	5,016	3,862	18,418
Private	217	217	0	0	0	0	0
U. Charleston	217	217	0	0	0	0	0
Wisconsin	1,966,266	943,590	130,741	599,840	81,332	159,019	51,744
Public	1,599,312	774,226	129,913	480,441	42,974	129,257	42,501
U. Wisconsin-Eau Claire	1,628	681	396	278	243	24	6
U. Wisconsin-Green Bay	2,713	1,046	752	843	25	47	0
U. Wisconsin-La Crosse	2,942	968	694	977	227	70	6
U. Wisconsin-Madison	1,523,513	740,854	109,946	463,759	40,450	127,756	40,748
U. Wisconsin-Milwaukee	56,822	24,036	16,504	12,368	1,535	935	1,444
U. Wisconsin-Oshkosh	1,990	1,336	72	546	36	0	0
U. Wisconsin-Platteville	1,349 i	435 i	340 i	224 i	305 i	35 i	10 i
U. Wisconsin-Stevens Point	3,740	1,235	1,074	829	1	314	287
U. Wisconsin-Superior	4,615	3,635	135	617	152	76	0
Private	366,954	169,364	828	119,399	38,358	29,762	9,243
Marquette U.	40,638	15,316	207	16,222	752	2,440	5,701
Medical C. Wisconsin	321,506	152,301	586	102,906	35,121	27,050	3,542
Milwaukee School of Engineering	3,545	969	0	79	2,485	12	0
Northland C.	1,265 i	778 i	35 i	192 i	0 i	260 i	0 i
Wyoming	139,764	68,772	5,592	58,184	4,099	2,167	950
Public	139,764	68,772	5,592	58,184	4,099	2,167	950
U. Wyoming	139,764	68,772	5,592	58,184	4,099	2,167	950
Guam	20,481	17,066	1,682	1,339	375	19	0
Public	20,481	17,066	1,682	1,339	375	19	0
U. Guam	20,481	17,066	1,682	1,339	375	19	0
Puerto Rico	103,245	74,309	1,876	21,283	4,506	812	459
Public	96,773	70,095	1,520	19,785	4,506	812	55
U. Puerto Rico, Cayey	1,390	757	0	430	0	203	0
U. Puerto Rico, Humacao	1,448	1,160	0	288	0	0	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2022

(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. Puerto Rico, Mayaguez	18,274	16,223	455	314	1,049	233	0
U. Puerto Rico, Medical Sciences Campus	47,578	35,050	1,005	8,295	3,228	0	0
U. Puerto Rico, Rio Piedras	28,083	16,905	60	10,458	229	376	55
Private	6,472	4,214	356	1,498	0	0	404
U. Ana G. Mendez, Gurabo	1,419	1,407	0	12	0	0	0
U. Central del Caribe	5,053	2,807	356	1,486	0	0	404
Virgin Islands	20,259	19,127	1,010	NA	48	74	0
Public	20,259	19,127	1,010	NA	48	74	0
U. of the Virgin Islands	20,259	19,127	1,010	NA	48	74	0

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

^a The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^b The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

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

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

Source(s):

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