

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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	108,681,008	59,603,993	5,437,566	27,654,829	6,221,128	6,671,012	3,092,480
Public	71,001,044	37,015,780	4,979,687	19,437,810	3,735,372	3,733,311	2,099,084
Private	37,679,964	22,588,213	457,879	8,217,019	2,485,756	2,937,701	993,396
Alabama	1,579,469	852,721	76,056	476,377	90,423	46,777	37,115
Public	1,553,844	836,698	72,491	473,838	90,423	46,777	33,617
Alabama A&M U.	15,588	12,197	162	2,848	381	0	0
Alabama State U.	3,229	2,848	0	0	296	85	0
Auburn U., Auburn	349,273	125,783	34,950	158,454	11,570	5,092	13,424
Troy U.	3,785	3,069	81	398	1	203	33
U. Alabama, Birmingham	780,479	451,880	14,884	184,658	74,171	36,533	18,353
U. Alabama, Huntsville	163,428	126,040	5,071	30,635	731	689	262
U. Alabama, Tuscaloosa	184,880	86,244	16,660	77,554	1,973	1,753	696
U. South Alabama	53,182	28,637	683	19,291	1,300	2,422	849
Private	25,625	16,023	3,565	2,539	0	0	3,498
Tuskegee U.	25,625	16,023	3,565	2,539	0	0	3,498
Alaska	241,536	171,438	9,966	46,631	6,961	3,456	3,084
Public	239,713	170,811	9,966	46,631	5,788	3,456	3,061
U. Alaska, Anchorage	19,850	12,646	2,175	3,798	283	537	411
U. Alaska, Fairbanks	218,041	156,702	7,674	42,733	5,505	2,814	2,613
U. Alaska, Southeast	1,822	1,463	117	100	0	105	37
Private	1,823	627	0	0	1,173	0	23
Alaska Pacific U.	1,823	627	0	0	1,173	0	23
Arizona	1,939,790	828,326	148,673	630,991	51,044	132,499	148,257
Public	1,939,790	828,326	148,673	630,991	51,044	132,499	148,257
Arizona State U.	903,779	340,880	102,208	310,531	24,693	99,781	25,686
Dine C.	3,054	2,255	262	223	0	314	0
Northern Arizona U.	77,533	50,491	9,030	15,566	1,023	1,250	173
U. Arizona	955,424	434,700	37,173	304,671	25,328	31,154	122,398
Arkansas	457,800	193,302	61,055	160,876	13,496	13,769	15,302
Public	457,800	193,302	61,055	160,876	13,496	13,769	15,302
Arkansas State U., Jonesboro	7,323	3,083	3,419	561	260	0	0
U. Arkansas for Medical Sciences	209,409	94,483	13,854	84,563	5,274	6,102	5,133
U. Arkansas, Fayetteville	221,525	82,164	41,687	72,849	7,368	7,514	9,943
U. Arkansas, Little Rock	8,685	7,544	218	69	513	134	207
U. Arkansas, Pine Bluff	7,766	4,204	1,294	2,219	41	8	0

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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. Central Arkansas	3,092	1,824	583	615	40	11	19
California	13,473,649	7,190,081	548,596	2,872,732	876,382	1,383,387	602,471
Public	9,596,502	4,905,367	489,783	2,162,764	563,818	995,188	479,582
California Polytechnic State U., San Luis Obispo	35,830	14,810	4,997	12,550	1,205	2,182	86
California State Polytechnic U., Humboldt	18,800	3,280	3,338	5,724	437	3,094	2,927
California State Polytechnic U., Pomona	10,722	8,162	881	1,438	171	70	0
California State U., Bakersfield	6,409	3,525	154	2,580	0	150	0
California State U., Channel Islands	3,992	1,773	1,086	737	219	177	0
California State U., Chico	5,984	3,152	1,130	636	18	97	951
California State U., Dominguez Hills	5,558	2,457	870	1,996	41	52	142
California State U., East Bay	21,312	8,508	433	9,969	0	2,381	21
California State U., Fresno	11,411	4,864	1,394	3,770	238	1,120	25
California State U., Fullerton	25,811	6,049	205	18,925	204	428	0
California State U., Long Beach	21,458	13,758	1,930	3,618	149	1,468	535
California State U., Los Angeles	10,186	8,973	108	788	0	317	0
California State U., Monterey Bay	10,678	5,639	2,125	2,706	64	144	0
California State U., Northridge	23,093	19,169	1,152	1,278	113	1,381	0
California State U., Sacramento	28,027	11,284	10,056	5,821	26	556	284
California State U., San Bernardino	13,152	7,606	2,799	2,051	1	695	0
California State U., San Marcos	11,443	9,845	1,171	326	0	101	0
California State U., Stanislaus	2,305	1,150	513	168	468	6	0
Naval Postgraduate School	77,364	62,715	0	13,261	654	67	667
San Diego State U.	158,013	68,045	6,745	77,130	469	3,666	1,958
San Francisco State U.	34,466	16,507	1,978	14,434	0	1,536	11
San Jose State U.	83,406	31,780	7,116	38,582	2,101	2,478	1,349
Sonoma State U.	4,625	3,483	585	321	46	190	0
U. California, Berkeley	1,076,754	496,298	47,005	242,494	75,493	188,887	26,577
U. California, Davis	962,399	494,847	78,096	244,082	55,403	48,643	41,328
U. California, Irvine	609,614	335,393	19,360	132,261	46,182	33,514	42,904
U. California, Los Angeles	1,721,665	878,571	105,632	354,575	109,531	219,227	54,129
U. California, Merced	62,279	28,576	6,985	20,709	1,294	2,464	2,251
U. California, Office of the President	63,629	25	41,345	22,143	0	0	116
U. California, Riverside	214,802	120,524	10,655	55,114	7,288	10,826	10,395
U. California, San Diego	1,705,410	1,083,790	70,790	250,973	96,416	109,398	94,043
U. California, San Francisco	2,046,539	858,066	45,056	505,006	143,206	313,964	181,241

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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. California, Santa Barbara	305,483	179,896	7,230	65,230	14,790	27,455	10,882
U. California, Santa Cruz	203,883	112,847	6,863	51,368	7,591	18,454	6,760
Private	3,877,147	2,284,714	58,813	709,968	312,564	388,199	122,889
Azusa Pacific U.	6,097	140	40	5,545	35	273	64
Biola U.	1,461	0	0	9	0	1,298	154
California Institute of Technology	490,672	310,519	3,870	53,950	35,867	29,024	57,442
Chapman U.	41,791	10,015	303	23,533	383	7,481	76
Charles R. Drew U. of Medicine and Science	19,551	13,297	886	3,758	0	1,610	0
Claremont Graduate U.	7,262	1,422	354	984	2,709	1,228	565
Claremont McKenna C.	6,925	1,035	62	5,293	0	485	50
Harvey Mudd C.	3,682	1,968	0	1,389	0	161	164
High Tech High Graduate School of Ed.	5,939	0	0	0	0	5,939	0
Keck Graduate Institute	4,059	2,338	4	388	634	354	341
La Sierra U.	2,496 i	1,066 i	0 i	734 i	0 i	696 i	0 i
Loma Linda U.	22,262	12,485	745	4,913	1,469	2,634	16
Loyola Marymount U.	14,086	2,921	1,096	7,708	84	2,277	0
Marshall B. Ketchum U.	1,777 i	433 i	0 i	890 i	454 i	0 i	0 i
Occidental C.	4,718 i	2,967 i	559 i	NA	554 i	638 i	0 i
Pepperdine U.	10,632	674	1	7,179	0	2,771	7
Pomona C.	4,149	1,205	0	2,659	0	285	0
Santa Clara U.	5,679	3,448	372	NA	364	1,424	71
Scripps Research Institute	494,946	278,099	3,331	146,451	31,164	35,901	0
Stanford U.	1,537,846	943,669	31,872	189,108	144,300	219,578	9,319
Touro U., California	2,877	1,279	0	1,405	79	0	114
U. of the Pacific	1,972	1,300	586	NA	9	77	0
U. San Diego	12,902	3,501	684	7,498	69	542	608
U. San Francisco	9,633	1,015	532	6,848	0	279	959
U. Southern California	1,154,804	683,819	11,881	239,488	93,933	72,744	52,939
Western U. of Health Sciences	8,929	6,099	1,635	238	457	500	0
Colorado	2,084,784	1,542,108	66,741	198,776	102,949	104,272	69,938
Public	2,028,802	1,508,349	61,832	192,748	100,971	96,347	68,555
Colorado School of Mines	104,297	68,795	1,804	14,035	11,399	3,388	4,876
Colorado State U., Fort Collins	498,073	354,401	22,951	75,358	13,597	21,049	10,717
Colorado State U., Pueblo	1,624	952	199	347	0	0	126
Fort Lewis C.	3,372	2,816	23	143	6	384	0

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## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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. Colorado Anschutz Medical Campus	686,026	474,523	28,973	52,000	59,129	51,546	19,855
U. Colorado Boulder	651,924	538,715	5,264	42,462	15,045	18,275	32,163
U. Colorado Colorado Springs	7,012	5,205	29	1,042	523	207	6
U. Colorado Denver	22,530	17,181	2,387	513	846	1,258	345
U. Northern Colorado	9,064	1,705	202	6,848	69	240	0
U.S. Air Force Academy	44,880	44,056	0	0	357	0	467
Private	55,982	33,759	4,909	6,028	1,978	7,925	1,383
Colorado C.	2,498	611	0	1,000	0	887	0
U. Denver	53,484	33,148	4,909	5,028	1,978	7,038	1,383
Connecticut	1,757,255	993,818	8,507	542,244	91,795	109,772	11,119
Public	401,244	241,015	6,160	125,068	11,319	12,658	5,024
Central Connecticut State U.	934	393	51	480	0	2	8
Eastern Connecticut State U.	1,449	210	0	1,239	0	0	0
Southern Connecticut State U.	8,007	1,433	136	5,810	68	239	321
U. Connecticut	390,165	238,701	5,973	117,252	11,251	12,293	4,695
U.S. Coast Guard Academy	689	278	0	287	0	124	0
Private	1,356,011	752,803	2,347	417,176	80,476	97,114	6,095
Connecticut C.	1,440	648	0	575	0	211	6
Fairfield U.	1,484	180	0	751	0	553	0
Hartford International U. for Religion and Peace	1,485	0	0	0	0	1,485	0
Sacred Heart U.	4,733	639	0	3,892	0	202	0
Trinity C., Hartford	4,099	687	0	3,330	7	75	0
U. Hartford	1,533	1,269	8	203	3	50	0
U. New Haven	3,602	2,227	629	204	24	487	31
Wesleyan U.	10,828	5,955	0	3,515	221	688	449
Yale U.	1,326,807	741,198	1,710	404,706	80,221	93,363	5,609
Delaware	461,627	226,636	17,254	192,620	5,252	9,372	10,493
Public	461,627	226,636	17,254	192,620	5,252	9,372	10,493
Delaware State U.	33,499	24,167	4,093	3,975	48	1,181	35
U. Delaware	428,128	202,469	13,161	188,645	5,204	8,191	10,458
District of Columbia	925,418	406,272	10,198	307,302	28,419	116,079	57,148
Public	10,439	9,861	384	48	0	131	15
National Defense U.	2,494	2,494	0	0	0	0	0
U. of the District of Columbia	7,945	7,367	384	48	0	131	15
Private	914,979	396,411	9,814	307,254	28,419	115,948	57,133

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## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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
American U.	76,041	17,462	2,193	44,220	603	9,510	2,053
Catholic U. of America	47,022	35,502	1,147	7,957	264	2,124	28
Gallaudet U.	9,894	5,523	25	3,462	0	526	358
George Washington U.	360,260	162,892	1,890	141,746	5,655	30,534	17,543
Georgetown U.	337,006	127,370	1,719	87,408	17,345	68,114	35,050
Howard U.	84,756	47,662	2,840	22,461	4,552	5,140	2,101
Florida	3,518,895	1,712,962	328,446	1,165,728	128,936	126,254	56,569
Public	2,914,461	1,374,289	307,360	999,301	79,188	100,037	54,286
Florida A&M U.	65,159	54,363	2,851	6,503	586	856	0
Florida Atlantic U.	77,593	35,108	8,511	23,101	2,611	7,308	954
Florida Gulf Coast U.	24,899	9,858	9,477	3,533	108	1,891	32
Florida International U.	306,434	156,381	21,887	115,737	3,019	7,971	1,439
Florida Polytechnic U.	2,260	1,172	141	723	183	41	0
Florida State U.	414,463	195,323	36,977	166,809	5,614	3,466	6,274
New C. Florida	1,080	146	0	367	425	142	0
U. Central Florida	247,259	124,256	5,893	99,427	9,659	3,642	4,382
U. Florida	1,250,201	529,391	193,910	389,065	42,055	58,010	37,770
U. North Florida	23,269	8,113	1,436	12,378	825	293	224
U. South Florida	461,390	242,224	25,735	160,703	13,502	16,015	3,211
U. West Florida	40,454	17,954	542	20,955	601	402	0
Private	604,434	338,673	21,086	166,427	49,748	26,217	2,283
Embry-Riddle Aeronautical U.	27,451	23,733	205	862	1,041	161	1,449
Florida Institute of Technology	16,859	11,520	768	4,253	142	176	0
Nova Southeastern U.	50,173	11,637	3,862	32,874	543	762	495
U. Miami	509,951	291,783	16,251	128,438	48,022	25,118	339
Georgia	3,663,637	2,235,643	205,443	864,443	188,903	150,139	19,066
Public	2,445,990	1,482,256	204,154	562,935	120,805	63,355	12,485
Albany State U.	1,932	1,681	106	0	145	0	0
Augusta U.	139,121	64,410	214	62,558	4,396	6,836	707
Fort Valley State U.	15,536	7,505	8,031	0	0	0	0
Georgia Institute of Technology	1,405,080	1,083,903	128,291	61,494	94,476	31,073	5,843
Georgia Southern U.	40,026	3,562	521	30,268	5,367	270	38
Georgia State U.	237,493	91,331	4,392	125,011	3,269	12,131	1,359
Kennesaw State U.	32,497	5,908	563	24,976	157	893	0
Savannah State U.	1,706	1,675	18	0	0	13	0

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(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. Georgia	570,956	221,804	61,887	257,757	12,988	11,982	4,538
U. North Georgia	1,643	477	131	871	7	157	0
Private	1,217,647	753,387	1,289	301,508	68,098	86,784	6,581
Clark Atlanta U.	10,320	7,687	0	2,523	79	31	0
Emory U.	1,094,328	664,370	244	279,302	64,772	81,897	3,743
Mercer U.	45,247	29,944	58	8,973	3,247	187	2,838
Morehouse C.	5,750	5,750	0	NA	0	0	0
Morehouse School of Medicine	57,125	41,069	987	10,710	0	4,359	0
Spelman C.	4,877	4,567	0	0	0	310	0
Hawaii	339,716	215,599	17,577	79,211	3,887	21,781	1,661
Public	336,803	213,657	17,577	79,032	3,449	21,437	1,651
U. Hawaii, Hilo	8,112	6,068	22	809	59	940	214
U. Hawaii, Manoa	313,143	192,205	17,555	78,084	3,390	20,472	1,437
U. Hawaii, Maui C.	1,376	1,234	0	117	0	25	0
U. Hawaii, system office	14,172	14,150	0	22	0	0	0
Private	2,913	1,942	0	179	438	344	10
Hawaii Pacific U.	2,913	1,942	0	179	438	344	10
Idaho	206,438	106,562	54,409	36,929	2,877	1,752	3,909
Public	206,438	106,562	54,409	36,929	2,877	1,752	3,909
Boise State U.	52,989	35,801	3,473	12,190	426	704	395
Idaho State U.	17,548	9,230	3,042	4,362	605	196	113
U. Idaho	135,901	61,531	47,894	20,377	1,846	852	3,401
Illinois	3,476,127	2,115,612	51,323	868,708	198,082	199,884	42,518
Public	1,468,622	790,564	43,270	472,037	62,512	68,699	31,540
Chicago State U.	3,756	3,756	0	0	0	0	0
Illinois State U.	32,961	13,612	2,429	16,099	152	664	5
Northeastern Illinois U.	2,262	2,262	0	0	0	0	0
Northern Illinois U.	29,134	10,849	1,299	15,720	705	469	92
Southern Illinois U., Carbondale	58,291	17,209	3,522	29,972	6,916	672	0
Southern Illinois U., Edwardsville	21,927	3,621	1,684	15,854	752	14	2
U. Illinois, Chicago	492,936	274,424	9,293	158,846	9,469	30,905	9,999
U. Illinois, Springfield	2,508	1,057	426	818	0	207	0
U. Illinois, Urbana-Champaign	821,023	460,491	24,473	234,686	44,275	35,768	21,330
Western Illinois U.	3,824	3,283	144	42	243	0	112
Private	2,007,505	1,325,048	8,053	396,671	135,570	131,185	10,978

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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
DePaul U.	13,267	5,592	807	3,512	372	2,911	73
Erikson Institute	2,414	1,245	0	178	0	991	0
Illinois Institute of Technology	33,021	28,027	154	2,045	1,292	858	645
Loyola U., Chicago	52,445	29,712	242	12,892	4,302	4,062	1,235
Midwestern U.	12,725	2,862	92	9,430	76	265	0
Northwestern U.	1,114,269	678,062	586	303,778	67,114	58,196	6,533
Rosalind Franklin U. of Medicine and Science	11,629	7,124	62	3,270	565	608	0
Rush U.	132,394	93,180	2,208	12,316	16,533	8,157	0
Toyota Technological Institute, Chicago	4,636	2,127	0	1,633	321	463	92
U. Chicago	628,302	476,689	3,902	46,651	44,990	53,670	2,400
Wheaton C., Wheaton	2,403	428	0	966	5	1,004	0
Indiana	2,146,500	1,019,200	53,597	730,182	134,786	134,862	73,873
Public	1,810,152	869,220	52,885	612,368	120,108	109,141	46,430
Ball State U.	11,650	6,355	396	3,956	637	306	0
Indiana State U.	1,327	980	83	212	32	11	9
Indiana U., Bloomington	853,056	432,223	5,804	303,085	36,938	69,773	5,233
Indiana U., South Bend	1,593	420	3	875	0	295	0
Indiana U.-Purdue U., Indianapolis	87,648	39,869	3,029	34,236	3,434	6,776	304
Purdue U., Fort Wayne	2,804	226	455	1,087	172	291	573
Purdue U., Northwest	7,504	3,409	996	1,604	597	236	662
Purdue U., West Lafayette	844,570	385,738	42,119	267,313	78,298	31,453	39,649
Private	336,348	149,980	712	117,814	14,678	25,721	27,443
Butler U.	1,396	1,077	0	199	20	100	0
Marian U., Indianapolis	3,009	918	0	1,709	18	172	192
U. Notre Dame	331,943	147,985	712	115,906	14,640	25,449	27,251
Iowa	1,102,499	534,285	42,726	395,602	55,319	37,995	36,572
Public	1,087,521	530,193	42,351	385,996	55,285	37,586	36,110
Iowa State U.	420,823	195,394	34,183	156,282	21,246	13,084	634
U. Iowa	662,134	331,824	7,627	228,803	34,039	24,365	35,476
U. Northern Iowa	4,564	2,975	541	911	0	137	0
Private	14,978	4,092	375	9,606	34	409	462
Des Moines U.	3,932	556	7	3,225	0	144	0
Drake U.	1,724	954	368	340	34	26	2
Grinnell C.	7,597	1,082	0	5,816	0	239	460
Palmer C. of Chiropractic, Davenport	1,725	1,500	0	225	0	0	0

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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
Kansas	1,054,041	437,683	107,614	259,770	210,400	23,800	14,774
Public	1,054,041	437,683	107,614	259,770	210,400	23,800	14,774
Kansas State U.	217,992	82,610	43,122	73,427	7,647	9,860	1,326
Pittsburg State U.	2,979	1,591	633	NA	755	0	0
U. Kansas	466,222	211,111	44,851	152,432	30,988	13,436	13,404
Wichita State U.	366,848	142,371	19,008	33,911	171,010	504	44
Kentucky	756,549	384,426	49,123	231,812	22,083	19,128	49,977
Public	756,549	384,426	49,123	231,812	22,083	19,128	49,977
Eastern Kentucky U.	1,446	798	124	468	56	0	0
Kentucky State U.	11,591	7,605	3,969	NA	17	0	0
Morehead State U.	2,658	1,718	381	11	530	18	0
Murray State U.	3,193	2,058	29	993	79	34	0
Northern Kentucky U.	3,790	2,413	77	1,113	6	181	0
U. Kentucky	504,005	265,543	34,829	151,066	11,737	12,511	28,319
U. Louisville	220,568	100,890	8,924	73,255	9,580	6,261	21,658
Western Kentucky U.	9,298	3,401	790	4,906	78	123	0
Louisiana	1,064,385	460,634	99,284	331,518	114,996	33,805	24,148
Public	788,131	294,105	94,324	268,428	106,568	16,293	8,413
Grambling State U.	449	377	52	20	0	0	0
Louisiana State U., Baton Rouge	384,268	127,243	73,829	156,614	14,807	6,295	5,480
Louisiana State U., Health Sciences Center, New Orleans	68,707	35,933	447	24,332	3,478	4,235	282
Louisiana State U., Health Sciences Center, Shreveport	35,624	18,742	158	8,014	3,715	4,995	0
Louisiana Tech U.	31,676	8,118	2,220	19,098	722	0	1,518
Northwestern State U. Louisiana	2,057	822	936	299	0	0	0
Southeastern Louisiana U.	2,858	1,366	237	758	472	25	0
Southern U. and A&M C., Agricultural Research and Extension Center	7,764	4,688	3,037	24	0	15	0
Southern U. and A&M C., Baton Rouge	5,201	4,444	75	34	648	0	0
Southern U., New Orleans	1,004	536	460	0	8	0	0
U. Louisiana, Lafayette	225,924	84,898	11,605	46,907	82,197	317	0
U. Louisiana, Monroe	2,203	1,655	371	3	30	144	0
U. New Orleans	20,396	5,283	897	12,325	491	267	1,133
Private	276,254	166,529	4,960	63,090	8,428	17,512	15,735
Dillard U.	2,296	1,228	117	951	0	0	0
Tulane U.	258,439	152,468	4,121	60,978	8,428	16,709	15,735
Xavier U. Louisiana	15,519	12,833	722	1,161	0	803	0



TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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	211,287	106,897	20,837	71,504	5,072	4,457	2,520
Public	194,620	95,468	20,764	68,126	5,043	3,332	1,887
U. Maine	188,690	92,870	17,694	67,941	5,043	3,260	1,882
U. Southern Maine	5,930	2,598	3,070	185	0	72	5
Private	16,667	11,429	73	3,378	29	1,125	633
Bates C.	2,118	1,455	0	349	0	272	42
Bowdoin C.	3,339	2,186	71	901	0	102	79
Colby C.	4,454	3,011	0	580	0	356	507
U. New England	6,756	4,777	2	1,548	29	395	5
Maryland	5,987,528	4,722,204	115,606	728,844	167,183	234,170	19,521
Public	2,185,943	1,397,653	105,335	564,086	40,498	65,769	12,602
Bowie State U.	2,612	2,469	143	0	0	0	0
Morgan State U.	43,868	30,451	5,582	5,635	721	644	835
Salisbury U.	14,557	5,049	5,551	3,904	0	53	0
St. Mary's C. Maryland	205	152	31	0	0	22	0
Towson U.	17,198	3,653	369	12,449	79	622	26
U. Baltimore	6,615	4,250	1,819	NA	20	422	104
U. Maryland <sup>a</sup>	1,385,302	825,546	57,007	401,833	37,011	54,377	9,528
U. Maryland Center for Environmental Science	53,233	15,378	26,509	9,309	198	1,563	276
U. Maryland, Baltimore County	144,262	86,573	8,087	42,409	2,469	3,332	1,392
U. Maryland, Eastern Shore	10,730	10,201	237	266	0	24	2
U.S. Naval Academy	10,920	10,260	0	0	0	221	439
Uniformed Services U. of the Health Sciences	496,441	403,671	0	88,281	0	4,489	0
Private	3,801,585	3,324,551	10,271	164,758	126,685	168,401	6,919
Johns Hopkins U. <sup>b</sup>	3,801,585	3,324,551	10,271	164,758	126,685	168,401	6,919
Massachusetts	5,174,742	2,803,574	49,060	1,239,635	353,929	551,075	177,469
Public	826,455	465,292	28,969	229,887	42,924	43,195	16,188
Framingham State U.	735	700	0	35	0	0	0
U. Massachusetts, Amherst	268,657	138,849	11,465	90,429	9,220	12,373	6,321
U. Massachusetts, Boston	70,978	27,098	7,176	27,225	2,400	6,733	346
U. Massachusetts, Dartmouth	42,018	13,742	2,933	21,993	1,808	1,267	275
U. Massachusetts, Lowell	117,336	61,413	4,420	39,726	7,554	2,527	1,696
U. Massachusetts, Medical School	326,731	223,490	2,975	50,479	21,942	20,295	7,550
Private	4,348,287	2,338,282	20,091	1,009,748	311,005	507,880	161,281
Amherst C.	8,152	2,869	0	3,104	0	235	1,944

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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.	1,957	224	0	758	78	131	766
Bentley U.	1,589	802	0	0	18	751	18
Boston C.	81,425	39,356	2,517	18,254	974	19,273	1,051
Boston U.	773,200	409,551	500	230,370	23,362	93,532	15,885
Brandeis U.	103,653	46,654	406	41,318	661	10,730	3,884
Clark U.	11,539	2,235	231	5,610	81	1,804	1,578
Franklin W. Olin C. of Engineering	2,450	641	0	639	230	837	103
Harvard U.	1,435,218	639,953	4,250	488,906	71,497	202,605	28,007
Massachusetts Institute of Technology	1,000,081	559,766	2,079	73,497	176,277	112,591	75,871
Merrimack C.	1,560	892	0	336	0	247	85
MGH Institute of Health Professions	7,426	6,200	0	20	0	1,206	0
Mount Holyoke C.	2,533	1,612	125	504	0	292	0
New England C. of Optometry	2,491	1,946	56	30	390	69	0
Northeastern U.	288,558	186,013	3,336	68,663	11,524	18,604	418
Smith C.	5,954	3,013	0	2,179	253	509	0
Suffolk U.	5,164	893	737	3,303	0	231	0
Tufts U.	247,276	154,458	2,328	33,998	15,988	29,439	11,065
Wellesley C.	6,320	2,921	449	NA	80	2,628	242
Western New England U.	1,115	538	54	302	89	132	0
Williams C.	6,448 i	1,455 i	0 i	2,164 i	0 i	178 i	2,651 i
Woods Hole Oceanographic Institution	287,825	238,554	882	15,591	5,431	10,476	16,891
Worcester Polytechnic Institute	66,353	37,736	2,141	20,202	4,072	1,380	822
Michigan	3,368,889	1,745,518	64,733	1,212,840	156,373	142,391	47,034
Public	3,267,371	1,703,200	61,131	1,172,716	155,845	134,804	39,675
Central Michigan U.	25,363	9,591	0	13,833	408	852	679
Eastern Michigan U.	8,363	2,521	72	5,463	0	297	10
Ferris State U.	1,915	1,430	88	271	53	73	0
Grand Valley State U.	6,231	1,808	450	2,906	0	584	483
Lake Superior State U.	2,545	1,475	166	720	66	37	81
Michigan State U.	844,076	435,564	46,353	300,588	18,603	22,693	20,275
Michigan Technological U.	103,819	52,102	1,236	40,859	6,632	968	2,022
Northern Michigan U.	1,871	560	25	1,079	1	80	126
Oakland U.	37,263	9,600	3,066	15,987	4,953	1,636	2,021
Saginaw Valley State U.	3,143 i	2,503 i	0 i	476 i	6 i	138 i	20 i
U. Michigan, Ann Arbor	1,925,875	1,041,430	1,934	679,205	113,903	80,894	8,509

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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. Michigan, Dearborn	10,839	3,464	0	4,361	2,601	331	82
Wayne State U.	250,911	128,521	6,525	81,136	5,339	25,618	3,772
Western Michigan U. and Homer Stryker M.D. School of Medicine	45,157	12,631	1,216	25,832	3,280	603	1,595
Private	101,518	42,318	3,602	40,124	528	7,587	7,359
Albion C.	276	226	0	0	50	0	0
Andrews U.	1,255	445	0	721	0	89	0
Calvin U.	2,555	854	68	330	0	1,060	243
Hope C.	6,910	3,639	0	1,678	0	1,308	285
Lawrence Technological U.	4,632	1,786	937	784	183	942	0
U. Detroit Mercy	5,142	4,434	0	529	140	39	0
Van Andel Research Institute	80,748	30,934	2,597	36,082	155	4,149	6,831
Minnesota	1,365,645	717,493	83,872	404,729	56,733	42,630	60,188
Public	1,351,673	711,610	83,306	399,546	56,297	41,017	59,897
Minnesota State U., Mankato	3,055	905	196	1,537	0	45	372
St. Cloud State U.	2,901	689	305	719	835	145	208
U. Minnesota, Duluth	25,534	7,533	6,410	11,092	381	63	55
U. Minnesota, Twin Cities	1,320,183	702,483	76,395	386,198	55,081	40,764	59,262
Private	13,972	5,883	566	5,183	436	1,613	291
C. of Saint Benedict	1,400	58	0	1,342	0	0	0
Carleton C.	4,185	2,800	0	483	0	902	0
Gustavus Adolphus C.	969	467	9	107	181	54	151
Macalester C.	1,935	1,094	58	508	0	275	0
Saint John's U.	1,479	0	0	1,479	0	0	0
St. Olaf C.	1,724	933	0	686	0	105	0
U. of St. Thomas (MN)	2,280	531	499	578	255	277	140
Mississippi	608,155	314,446	122,058	148,631	6,855	14,340	1,825
Public	605,492	311,803	122,054	148,627	6,851	14,336	1,821
Alcorn State U.	19,141	10,996	5,206	2,894	24	21	0
Jackson State U.	19,457	16,443	0	1,601	4	1,375	34
Mississippi State U.	319,684	150,804	92,674	63,773	3,140	7,858	1,435
U. Mississippi	172,176	85,186	10,670	68,074	3,311	4,583	352
U. Southern Mississippi	75,034	48,374	13,504	12,285	372	499	0
Private	2,663	2,643	4	4	4	4	4
Tougaloo C.	2,663	2,643	4	4	4	4	4
Missouri	1,873,279	1,105,546	71,821	402,770	155,769	118,172	19,201

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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	614,154	299,815	70,604	190,754	20,430	15,558	16,993
Lincoln U., Jefferson City	8,196	4,610	3,552	34	0	0	0
Missouri State U.	14,654	12,973	84	1,387	20	172	18
Missouri U. of Science and Technology	61,496	32,457	682	17,847	3,907	1,037	5,566
U. Missouri, Columbia	462,435	217,091	65,868	146,211	15,816	11,225	6,224
U. Missouri, Kansas City	54,565	28,115	336	20,030	582	934	4,568
U. Missouri, Saint Louis	12,808	4,569	82	5,245	105	2,190	617
Private	1,259,125	805,731	1,217	212,016	135,339	102,614	2,208
Saint Louis U.	85,921	44,157	646	21,971	5,412	13,484	251
U. of Health Sciences and Pharmacy in St. Louis	4,343	3,110	0	1,060	84	89	0
Washington U., Saint Louis	1,168,861	758,464	571	188,985	129,843	89,041	1,957
Montana	382,015	228,040	25,393	115,813	1,406	6,901	4,462
Public	382,015	228,040	25,393	115,813	1,406	6,901	4,462
Montana State U., Bozeman	229,682	142,965	18,379	59,067	956	4,403	3,912
Montana Technological U.	18,375	9,585	5,503	3,057	230	0	0
U. Montana, Missoula	133,958	75,490	1,511	53,689	220	2,498	550
Nebraska	680,337	316,636	83,759	193,385	33,839	28,940	23,778
Public	651,894	303,955	79,816	183,788	32,806	28,473	23,056
U. Nebraska, Kearney	3,681	1,739	590	1,307	25	0	20
U. Nebraska, Lincoln and Medical Center <sup>c</sup>	617,372	280,120	76,042	177,595	32,720	27,961	22,934
U. Nebraska, Omaha	30,841	22,096	3,184	4,886	61	512	102
Private	28,443	12,681	3,943	9,597	1,033	467	722
Creighton U.	28,443	12,681	3,943	9,597	1,033	467	722
Nevada	325,781	144,228	11,970	145,746	5,134	5,919	12,784
Public	319,716	144,190	11,970	139,793	5,067	5,912	12,784
Desert Research Institute	30,716	20,061	1,657	4,378	802	2,890	928
Nevada State C.	1,744	1,711	33	0	0	0	0
U. Nevada, Las Vegas	98,751	38,815	2,536	51,945	1,599	1,096	2,760
U. Nevada, Reno	188,505	83,603	7,744	83,470	2,666	1,926	9,096
Private	6,065	38	0	5,953	67	7	0
Roseman U. of Health Sciences	6,065	38	0	5,953	67	7	0
New Hampshire	590,539	321,117	1,077	218,900	10,886	28,849	9,710
Public	223,683	152,377	1,031	52,786	8,471	7,984	1,034
U. New Hampshire	223,683	152,377	1,031	52,786	8,471	7,984	1,034
Private	366,856	168,740	46	166,114	2,415	20,865	8,676

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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	366,856	168,740	46	166,114	2,415	20,865	8,676
New Jersey	1,717,387	786,394	155,317	499,280	64,676	150,522	61,198
Public	1,133,752	519,218	148,706	343,631	40,930	72,669	8,598
C. New Jersey	2,641	1,755	72	482	0	332	0
Kean U.	10,062	1,870	134	7,954	15	89	0
Montclair State U.	38,209	5,916	707	29,934	26	1,621	5
New Jersey Institute of Technology	161,078	70,080	19,994	64,230	1,385	1,616	3,773
Rowan U.	47,810	18,454	6,659	20,501	1,230	966	0
Rutgers, State U. New Jersey, Camden	9,527	3,042	1,842	3,214	544	860	25
Rutgers, State U. New Jersey, New Brunswick	831,719	400,930	117,514	207,008	37,495	64,220	4,552
Rutgers, State U. New Jersey, Newark	29,787	16,315	1,073	9,143	195	2,880	181
Stockton U.	2,386	688	711	815	36	74	62
William Paterson U.	533	168	0	350	4	11	0
Private	583,635	267,176	6,611	155,649	23,746	77,853	52,600
Monmouth U.	2,517	762	657	280	168	612	38
Princeton U.	513,365	219,600	1,252	144,341	20,077	76,101	51,994
Seton Hall U.	7,068	2,778	2,633	1,195	104	211	147
Stevens Institute of Technology	60,685	44,036	2,069	9,833	3,397	929	421
New Mexico	564,566	381,404	42,002	101,507	10,688	20,218	8,747
Public	564,566	381,404	42,002	101,507	10,688	20,218	8,747
New Mexico Highlands U.	3,468	3,416	0	43	0	0	9
New Mexico Institute of Mining and Technology	118,735	100,873	10,189	3,375	3,346	324	628
New Mexico State U.	126,337	71,764	24,741	18,791	1,873	3,039	6,129
U. New Mexico	316,026	205,351	7,072	79,298	5,469	16,855	1,981
New York	9,058,400	4,965,967	303,976	2,070,036	671,872	656,558	389,991
Public	1,801,836	811,661	140,916	518,754	236,483	67,194	26,828
CUNY, Advanced Science Research Center	17,309	11,916	761	2,201	451	1,574	406
CUNY, Baruch C.	4,084	1,879	77	988	91	785	264
CUNY, Brooklyn C.	8,535	5,518	838	1,998	44	119	18
CUNY, C. Staten Island	4,730	3,296	224	975	41	109	85
CUNY, City C.	63,159	38,669	11,846	10,996	223	1,047	378
CUNY, Graduate Center	54,089	2,792	428	45,484	127	4,450	808
CUNY, Graduate School of Public Health and Health Policy	26,651	13,413	9,353	1,330	1,057	1,451	47
CUNY, Hunter C.	37,172	22,124	3,037	9,506	739	1,293	473
CUNY, John Jay C. of Criminal Justice	22,967	7,452	6,104	5,096	111	3,124	1,080

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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, Lehman C.	5,918	4,487	0	782	365	181	103
CUNY, New York City C. of Technology	2,819	2,498	30	241	10	16	24
CUNY, Queens C.	25,492	17,811	1,345	5,536	8	710	82
CUNY, system office	4,296	2,901	413	730	18	234	0
CUNY, York C.	1,711	1,504	0	159	0	48	0
SUNY, Binghamton U.	141,685	31,601	6,115	96,213	4,067	242	3,447
SUNY, Buffalo State U.	2,636	1,615	765	222	0	17	17
SUNY, C. Brockport	1,877	813	155	610	0	290	9
SUNY, C. of Environmental Science and Forestry	32,682	9,231	14,316	6,234	515	1,073	1,313
SUNY, C. of Optometry	4,423	2,469	0	594	1,328	10	22
SUNY, C. Plattsburgh	1,722	1,121	0	530	0	69	2
SUNY, Cobleskill	2,566	730	1,832	0	4	0	0
SUNY, Downstate Health Sciences U.	35,600	28,543	0	3,431	313	3,005	308
SUNY, Geneseo	1,958	1,292	9	491	0	52	114
SUNY, Oswego	1,595	894	49	595	1	32	24
SUNY, Polytechnic Institute	284,677	34,393	31,886	25,429	188,351	181	4,437
SUNY, Stony Brook U.	324,531	192,448	15,436	92,936	10,779	10,329	2,603
SUNY, U. Albany	141,671	62,935	1,019	69,881	927	4,707	2,202
SUNY, U. Buffalo	471,569	257,857	32,647	124,197	20,309	29,292	7,267
SUNY, Upstate Medical U.	53,219	30,069	2,231	11,303	6,335	2,054	1,227
U.S. Military Academy	20,493	19,390	0	66	269	700	68
Private	7,256,564	4,154,306	163,060	1,551,282	435,389	589,364	363,163
Albany C. of Pharmacy and Health Sciences	2,594 i	1,256 i	0 i	882 i	287 i	169 i	0 i
Albany Medical C.	23,259	14,193	120	3,464	3,956	1,360	166
Albert Einstein C. of Medicine	336,238	230,151	2,032	81,552	5,637	16,866	0
Alfred U.	4,154	1,958	1,596	242	330	28	0
Barnard C.	6,320	4,235	0	1,006	8	1,071	0
Canisius U.	905	411	0	0	0	494	0
Clarkson U.	25,399	10,611	3,910	9,214	1,093	406	165
Cold Spring Harbor Laboratory	117,483	54,123	209	38,367	3,914	20,870	0
Colgate U.	4,930	1,521	0	3,041	305	63	0
Columbia U. in the City of New York	1,341,952	988,670	6,298	119,863	91,828	132,930	2,363
Cornell U.	1,451,971	705,132	95,202	276,682	59,081	129,082	186,792
Fordham U.	23,832	4,687	0	16,377	3	1,957	808
Hamilton C.	3,285	413	0	1,813	0	819	240

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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
Hobart and William Smith Colleges	2,373	1,019	526	572	0	136	120
Hofstra U.	8,162	1,995	237	5,786	0	144	0
Icahn School of Medicine at Mount Sinai	972,476	658,916	8,359	147,069	80,437	62,202	15,493
Ithaca C.	861	453	130	178	0	42	58
Long Island U.	16,612	1,993	0	13,844	90	569	116
Manhattan C.	1,250	422	222	460	146	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	5,324	273	0	5,021	0	30	0
New School	22,680	1,337	708	3,483	56	16,080	1,016
New York Institute of Technology	5,790	3,252	125	2,146	60	207	0
New York Medical C.	17,113	8,226	1,326	1,064	3,319	2,169	1,009
New York U.	1,457,424	787,204	9,599	327,502	73,289	118,376	141,454
Pace U.	4,056	2,698	20	1,101	0	237	0
Pratt Institute	1,558	50	878	0	0	630	0
Rensselaer Polytechnic Institute	121,706	56,445	3,289	45,192	10,959	3,123	2,698
Rochester Institute of Technology	72,405	37,334	9,828	19,161	3,084	2,178	820
Rockefeller U.	385,168	101,422	101	244,237	3,089	35,953	366
Skidmore C.	2,384	1,288	0	510	0	586	0
St. John's U., New York	3,955	2,792	0	450	341	232	140
Syracuse U.	183,850	46,595	10,706	108,685	9,170	8,570	124
Teachers C., Columbia U.	34,183	11,871	3,953	NA	1,428	14,239	2,692
Touro U., New York	100,547	40,008	0	7,152	53,387	0	0
U. Rochester	481,227	368,190	3,666	57,142	30,075	16,014	6,140
Union C., Schenectady	1,881	729	0	1,048	17	34	53
Vassar C.	2,596	1,204	20	872	0	490	10
Yeshiva U.	8,661	1,229	0	6,104	0	1,008	320
North Carolina	4,344,862	2,545,110	221,023	900,845	387,926	227,056	62,902
Public	2,520,822	1,362,822	212,566	680,003	134,954	106,349	24,128
Appalachian State U.	8,479	3,497	134	3,123	702	1,006	17
East Carolina U.	67,082	30,851	371	28,495	4,648	2,267	450
Elizabeth City State U.	1,641	1,093	403	NA	145	0	0
Fayetteville State U.	3,569 i	1,847 i	536 i	1,005 i	130 i	51 i	0 i
North Carolina A&T State U.	62,307	37,152	2,075	21,880	628	292	280
North Carolina Central U.	18,477 i	15,188 i	1,085 i	NA	494 i	883 i	827 i
North Carolina State U.	633,251	279,179	134,547	150,288	64,505	4,472	260
U. North Carolina, Asheville	6,761	3,323	547	615	126	2,148	2

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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. North Carolina, Chapel Hill	1,549,617	907,710	61,576	407,817	58,179	92,573	21,762
U. North Carolina, Charlotte	92,027	33,784	1,922	52,624	3,136	553	8
U. North Carolina, Greensboro	44,521	31,581	363	10,750	450	1,055	322
U. North Carolina, Wilmington	21,879	8,116	8,296	3,028	1,640	656	143
Western Carolina U.	2,543	1,600	337	378	171	57	0
Winston-Salem State U.	8,668	7,901	374	0	0	336	57
Private	1,824,040	1,182,288	8,457	220,842	252,972	120,707	38,774
Davidson C.	2,926	1,340	11	915	12	492	156
Duke U.	1,507,996	974,202	773	191,004	219,452	96,327	26,238
Elon U.	2,544	479	0	1,989	0	20	56
Johnson C. Smith U.	1,602	1,554	0	48	0	0	0
Wake Forest U.	308,972	204,713	7,673	26,886	33,508	23,868	12,324
North Dakota	373,912	120,566	98,723	127,107	18,730	2,201	6,585
Public	372,525	119,229	98,704	127,107	18,730	2,170	6,585
North Dakota State U.	190,330	53,339	51,819	76,422	1,292	1,215	6,243
U. North Dakota	182,195	65,890	46,885	50,685	17,438	955	342
Private	1,387	1,337	19	0	0	31	0
United Tribes Technical C.	1,387	1,337	19	0	0	31	0
Ohio	3,392,194	1,983,014	102,089	854,782	232,119	148,938	71,252
Public	2,603,489	1,331,786	88,805	771,787	219,266	123,543	68,302
Air Force Institute of Technology	56,848	45,087	0	11,659	102	0	0
Bowling Green State U.	20,726	8,208	2,160	9,214	233	911	0
Central State U.	11,123	5,523	3,857	1,743	0	0	0
Cleveland State U.	87,941	56,550	2,913	19,420	3,494	5,423	141
Kent State U.	58,984	17,959	1,021	37,300	753	1,872	79
Miami U.	28,430	10,724	2,483	12,745	1,350	1,066	62
Northeast Ohio Medical U.	13,116	8,873	202	3,440	0	601	0
Ohio State U.	1,449,188	694,647	64,139	424,124	155,194	63,964	47,120
Ohio U.	59,877	21,919	1,041	31,828	3,767	1,011	311
U. Akron	21,525	10,709	190	7,434	1,836	746	610
U. Cincinnati	698,642	391,943	7,782	185,586	49,685	44,304	19,342
U. Toledo	67,656	37,872	1,615	22,250	2,292	3,230	397
Wright State U.	26,189	19,081	1,158	4,837	513	360	240
Youngstown State U.	3,244	2,691	244	207	47	55	0
Private	788,705	651,228	13,284	82,995	12,853	25,395	2,950



TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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
C. Wooster	2,209	594	0	775	0	840	0
Case Western Reserve U.	553,740	431,736	11,202	80,506	4,659	23,331	2,306
Heidelberg U.	1,254	197	799	243	0	15	0
Kenyon C.	1,371	1,092	0	147	0	132	0
Oberlin C.	1,408	880	9	463	1	55	0
U. Dayton	228,723	216,729	1,274	861	8,193	1,022	644
Oklahoma	725,008	306,252	48,667	322,017	32,707	13,151	2,214
Public	700,163	297,707	48,361	313,938	25,941	12,002	2,214
Langston U.	10,505	5,473	19	4,583	430	0	0
Oklahoma State U., Center for Health Sciences	12,500	4,773	40	7,600	11	76	0
Oklahoma State U., Stillwater	226,498	64,098	24,323	124,314	12,528	773	462
U. Central Oklahoma	7,870	2,071	833	4,867	95	3	1
U. Oklahoma, Norman and Health Science Center	436,964	219,964	22,816	169,611	12,753	10,096	1,724
U. Oklahoma, Tulsa	5,826	1,328	330	2,963	124	1,054	27
Private	24,845	8,545	306	8,079	6,766	1,149	0
U. Tulsa	24,845	8,545	306	8,079	6,766	1,149	0
Oregon	1,095,169	741,264	71,247	112,983	63,780	53,905	51,990
Public	1,072,136	729,583	70,104	104,329	63,541	52,739	51,840
Oregon Health and Science U.	517,742	374,043	1,348	48,537	53,139	40,419	256
Oregon Institute of Technology	5,585	1,375	3,931	NA	97	182	0
Oregon State U.	337,985	222,169	57,839	30,449	9,154	3,260	15,114
Portland State U.	46,324	31,731	5,312	5,753	708	2,244	576
U. Oregon	164,500	100,265	1,674	19,590	443	6,634	35,894
Private	23,033	11,681	1,143	8,654	239	1,166	150
Lewis and Clark C.	2,686	776	1	1,590	0	319	0
National U. of Natural Medicine	1,336	862	0	305	169	0	0
Pacific U.	10,719	7,133	1,098	2,053	70	365	0
Reed C.	6,750	2,420	44	3,745	0	391	150
Willamette U.	1,542	490	0	961	0	91	0
Pennsylvania	5,954,796	3,379,254	124,165	1,618,486	380,254	297,030	155,607
Public	2,932,663	1,870,736	71,081	673,582	98,940	112,351	105,973
East Stroudsburg U. Pennsylvania	2,928	909	1,421	546	0	52	0
Indiana U. Pennsylvania	6,052	1,702	532	3,293	17	508	0
Lincoln U.	628	430	126	0	0	72	0
Pennsylvania State U., Altoona	1,215	297	6	666	91	144	11

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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
Pennsylvania State U., Behrend	7,614	4,378	388	1,823	708	308	9
Pennsylvania State U., Harrisburg	5,159	3,045	887	742	178	303	4
Pennsylvania State U., University Park and Hershey Medical Center	1,206,793	781,303	49,379	265,205	29,300	29,539	52,067
Temple U.	292,029	154,516	6,867	81,497	25,150	16,517	7,482
U. Pittsburgh, Pittsburgh	1,398,078	916,735	11,421	315,634	43,372	64,516	46,400
U.S. Army War C.	6,035 i	6,035 i	0 i	0 i	0 i	0 i	0 i
West Chester U. Pennsylvania	6,132	1,386	54	4,176	124	392	0
Private	3,022,133	1,508,518	53,084	944,904	281,314	184,679	49,634
Arcadia U.	1,321	772	182	0	0	367	0
Bryn Mawr C.	9,039	1,289	0	7,105	16	629	0
Bucknell U.	5,887	2,359	61	2,031	299	235	902
Carnegie Mellon U.	484,757	279,954	3,623	128,082	47,152	15,669	10,277
Drexel U.	169,583	108,724	4,464	43,396	1,727	8,475	2,797
Duquesne U.	14,989	6,555	1,055	4,349	275	2,755	0
Franklin and Marshall C.	4,111	1,469	241	1,273	371	543	214
Gettysburg C.	1,099	517	0	146	0	204	232
Haverford C.	4,088	2,344	0	955	0	270	519
Lafayette C.	1,991	1,141	23	687	5	135	0
Lehigh U.	56,301	39,909	2,479	11,921	893	1,081	18
Philadelphia C. of Osteopathic Medicine	7,459	442	59	2,848	2,547	1,563	0
Robert Morris U.	1,419	664	79	632	22	22	0
Saint Joseph's U.	8,675	2,680	1,129	1,657	2,517	434	258
Swarthmore C.	5,620	2,315	6	2,578	0	697	24
Thomas Jefferson U.	258,345	110,366	10,315	76,704	21,845	13,815	25,300
U. Pennsylvania	1,953,617	936,469	27,849	642,815	203,003	134,455	9,026
U. Scranton	1,169	866	2	212	20	69	0
Ursinus C.	1,150	942	112	0	0	96	0
Villanova U.	31,513	8,741	1,405	17,513	622	3,165	67
Rhode Island	513,818	355,462	6,749	93,812	8,286	38,924	10,585
Public	150,671	108,661	6,615	29,165	2,094	3,494	642
Naval War C.	5,819	5,819	0	0	0	0	0
Rhode Island C.	839	786	0	NA	0	53	0
U. Rhode Island	144,013	102,056	6,615	29,165	2,094	3,441	642
Private	363,147	246,801	134	64,647	6,192	35,430	9,943
Brown U.	353,591	239,744	32	63,031	6,120	34,721	9,943

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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
Bryant U.	558	436	0	122	0	0	0
Providence C.	5,533	4,648	0	582	0	303	0
Roger Williams U.	3,465	1,973	102	912	72	406	0
South Carolina	918,964	447,154	54,225	328,962	51,644	22,550	14,429
Public	912,972	442,771	54,193	328,480	50,881	22,235	14,412
C. Charleston	7,231	5,036	274	1,285	64	571	1
Citadel Military C. South Carolina	3,757	3,287	159	258	0	0	53
Clemson U.	286,503	129,955	29,268	100,954	21,139	5,110	77
Coastal Carolina U.	4,729	1,847	1,004	1,694	0	184	0
Medical U. South Carolina	333,826	168,957	7,944	110,106	26,042	8,152	12,625
South Carolina State U.	7,814	5,330	1,531	890	0	63	0
U. South Carolina, Aiken	2,250	782	0	1,453	0	15	0
U. South Carolina, Beaufort	1,466	889	43	417	0	117	0
U. South Carolina, Columbia	262,207	124,330	13,916	110,716	3,629	7,960	1,656
Winthrop U.	3,189	2,358	54	707	7	63	0
Private	5,992	4,383	32	482	763	315	17
Benedict C.	2,307	1,665	0	0	635	7	0
Claflin U.	1,418	1,418	0	0	0	0	0
Furman U.	2,267	1,300	32	482	128	308	17
South Dakota	129,045	61,993	22,579	22,583	2,454	4,095	15,341
Public	129,045	61,993	22,579	22,583	2,454	4,095	15,341
Black Hills State U.	2,260	1,918	82	258	0	2	0
Dakota State U.	5,253	2,437	231	660	692	25	1,208
South Dakota School of Mines and Technology	20,337	14,640	2,673	2,381	286	35	322
South Dakota State U.	71,340	28,897	17,795	6,156	1,432	3,251	13,809
U. South Dakota	29,855	14,101	1,798	13,128	44	782	2
Tennessee	1,972,549	1,072,733	46,239	658,055	101,062	66,247	28,213
Public	688,937	299,186	42,178	296,259	14,721	23,111	13,482
Austin Peay State U.	3,950	1,401	1,385	530	0	100	534
East Tennessee State U.	42,335	10,776	2,889	24,910	130	3,601	29
Middle Tennessee State U.	9,577	3,822	488	4,173	143	943	8
Tennessee State U.	28,246	15,983	1,177	10,740	155	187	4
Tennessee Technological U.	20,797	9,975	5,675	4,623	120	116	288
U. Memphis	100,042	26,913	9,680	58,132	1,839	3,273	205
U. Tennessee, Chattanooga	14,671	6,003	893	6,585	252	381	557

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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, Health Science Center	130,472	70,676	6,816	34,783	4,183	6,814	7,200
U. Tennessee, Knoxville	338,847	153,637	13,175	151,783	7,899	7,696	4,657
Private	1,283,612	773,547	4,061	361,796	86,341	43,136	14,731
Fisk U.	4,867	3,819	240	304	0	504	0
Lincoln Memorial U.	1,641	2	0	1,589	4	46	0
Lipscomb U.	1,946	309	0	1,571	8	58	0
Meharry Medical C.	22,002	18,398	0	603	64	2,937	0
Vanderbilt U. and Vanderbilt U. Medical Center	1,253,156	751,019	3,821	357,729	86,265	39,591	14,731
Texas	8,330,578	3,560,492	1,055,701	2,360,953	560,247	485,865	307,320
Public	7,045,228	2,950,984	1,006,721	1,906,221	505,101	375,874	300,327
Lamar U.	9,168	2,259	6,124	277	342	166	0
Prairie View A&M U.	21,791	12,354	4,391	3,550	490	1,006	0
Sam Houston State U.	11,760	3,307	579	6,787	235	315	537
Stephen F. Austin State U.	3,661	1,098	1,648	541	32	225	117
Sul Ross State U.	4,878	1,568	1,223	1,804	0	283	0
Tarleton State U.	23,345	5,478	4,392	12,689	286	500	0
Texas A&M International U.	5,602	1,966	1,011	1,542	170	913	0
Texas A&M U., College Station and Health Science Center	1,277,814	546,481	251,300	353,916	37,390	53,710	35,017
Texas A&M U.-Commerce	7,029	1,936	809	3,726	3	494	61
Texas A&M U.-Corpus Christi	39,305	17,742	10,790	5,118	230	2,783	2,642
Texas A&M U.-Kingsville	26,401	9,584	7,058	3,311	487	5,932	29
Texas A&M U.-San Antonio	1,593	1,233	51	51	4	224	30
Texas Southern U.	16,287	10,969	1,227	4,042	0	49	0
Texas State U.	141,291	44,297	4,667	83,686	1,378	7,106	157
Texas Tech U.	240,107	58,922	28,095	122,202	15,461	14,994	433
Texas Tech U., Health Sciences Center	48,638	14,732	18,670	9,432	608	3,205	1,991
Texas Tech U., Health Sciences Center, El Paso	13,189	2,415	3,097	6,947	229	501	0
Texas Woman's U.	6,922	2,439	2,136	1,396	166	785	0
U. Houston	231,942	99,450	28,641	84,315	8,565	6,492	4,479
U. Houston-Clear Lake	2,127	1,273	251	48	533	22	0
U. Houston-Downtown	1,967	1,495	183	140	68	81	0
U. North Texas, Denton	106,665	30,017	5,695	63,577	1,907	2,170	3,299
U. North Texas, Health Science Center	94,652	77,660	3,180	11,773	847	1,003	189
U. Texas Health Science Center, Houston	374,105	197,759	48,815	66,008	17,466	34,341	9,716
U. Texas Health Science Center, San Antonio	281,078	143,730	30,582	70,676	10,393	25,514	183

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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 Health Science Center, Tyler	32,077	12,555	10,087	3,795	172	5,468	0
U. Texas M. D. Anderson Cancer Center	1,255,190	259,285	300,907	256,545	248,261	38,163	152,029
U. Texas Medical Branch	233,192	150,272	7,479	58,807	6,138	10,496	0
U. Texas of the Permian Basin	2,769	1,013	525	832	190	7	202
U. Texas Rio Grande Valley	82,444	25,068	4,367	37,248	569	15,016	176
U. Texas Southwestern Medical Center	800,391	336,126	95,710	191,493	46,325	66,076	64,661
U. Texas, Arlington	147,265	56,337	28,343	50,435	5,284	4,708	2,158
U. Texas, Austin	1,035,838	621,223	37,601	235,987	79,753	52,764	8,510
U. Texas, Dallas	146,779	66,127	13,085	38,169	12,518	16,383	497
U. Texas, El Paso	145,724	70,873	16,687	44,987	1,268	1,770	10,139
U. Texas, San Antonio	158,453	58,171	21,583	67,694	5,971	1,988	3,046
U. Texas, Tyler	3,487	1,652	960	432	227	187	29
West Texas A&M U.	10,302	2,118	4,772	2,243	1,135	34	0
Private	1,285,350	609,508	48,980	454,732	55,146	109,991	6,993
Abilene Christian U.	8,182	946	0	194	6,934	108	0
Baylor C. of Medicine	847,305	440,345	34,061	282,695	33,100	57,104	0
Baylor U.	82,074	17,147	2,879	45,076	3,460	12,667	845
Rice U.	255,115	119,853	9,801	78,447	7,506	33,684	5,824
Southern Methodist U.	59,749	19,986	1,393	33,204	1,601	3,399	166
St. Edward's U.	1,334	315	186	762	0	71	0
Texas Christian U.	24,050	7,627	658	12,066	2,491	1,069	139
Trinity U.	5,296	2,203	2	1,238	0	1,834	19
U. of the Incarnate Word	2,245	1,086	0	1,050	54	55	0
Utah	1,264,913	771,302	33,925	344,224	60,959	38,890	15,613
Public	1,127,165	740,086	32,780	244,563	57,979	36,241	15,516
U. Utah	723,713	416,079	4,670	214,320	48,761	35,413	4,470
Utah State U.	401,437	322,336	27,831	30,207	9,204	813	11,046
Utah Valley U.	2,015	1,671	279	36	14	15	0
Private	137,748	31,216	1,145	99,661	2,980	2,649	97
Brigham Young U., Provo	137,748	31,216	1,145	99,661	2,980	2,649	97
Vermont	238,418	132,575	647	86,274	4,622	7,686	6,614
Public	233,806	128,645	632	85,988	4,622	7,305	6,614
U. Vermont	233,806	128,645	632	85,988	4,622	7,305	6,614
Private	4,612	3,930	15	286	0	381	0
Middlebury C.	2,975	2,564	10	25	0	376	0

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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
Norwich U.	1,637	1,366	5	261	0	5	0
Virginia	2,297,277	1,060,874	166,858	765,680	101,569	113,653	88,643
Public	2,272,352	1,048,444	166,688	754,141	101,521	112,940	88,618
Christopher Newport U.	3,507	2,055	0	1,218	94	140	0
Eastern Virginia Medical School	23,991	17,947	329	3,650	1,277	612	176
George Mason U.	252,239	125,437	4,311	66,769	8,346	40,831	6,545
James Madison U.	21,265	3,475	925	16,041	18	780	26
Norfolk State U.	6,194	4,381	574	677	182	380	0
Old Dominion U.	71,334	31,104	13,535	23,954	387	1,915	439
Radford U.	1,315	109	135	903	13	155	0
U. of Mary Washington	1,115	406	57	548	0	79	25
U. Virginia's C. Wise	1,223	447	367	333	0	69	7
U. Virginia, Charlottesville	714,457	354,748	13,101	214,946	31,588	31,392	68,682
Virginia Commonwealth U.	479,930	184,852	47,846	207,023	22,681	17,458	70
Virginia Military Institute	2,350	1,534	296	510	0	10	0
Virginia Polytechnic Institute and State U.	598,113	282,152	78,279	179,590	35,761	13,021	9,310
Virginia State U.	13,504	7,166	3,051	2,566	0	713	8
William & Mary	81,815	32,631	3,882	35,413	1,174	5,385	3,330
Private	24,925	12,430	170	11,539	48	713	25
Edward Via C. of Osteopathic Medicine	7,597	678	136	6,699	0	84	0
Hampton U.	9,769	9,445	0	324	0	0	0
Liberty U.	1,900	532	5	1,315	48	0	0
Marymount U.	2,601	396	29	1,983	0	193	0
U. Richmond	3,058	1,379	0	1,218	0	436	25
Washington	2,160,233	1,421,205	100,606	220,368	83,780	278,503	55,771
Public	2,153,103	1,418,291	100,528	217,331	83,725	277,457	55,771
Central Washington U.	3,683	2,499	650	282	85	132	35
Eastern Washington U.	2,546	1,015	1,198	NA	8	221	104
Northwest Indian C.	6,184 i	4,595 i	0 i	1,589 i	0 i	0 i	0 i
U. Washington, Bothell	5,738	3,787	617	486	1	667	180
U. Washington, Seattle	1,734,091	1,188,836	33,833	125,390	71,487	260,986	53,559
U. Washington, Tacoma	6,243	3,875	1,393	278	1	520	176
Washington State U.	378,744	207,086	61,333	84,199	12,077	12,411	1,638
Western Washington U.	15,874	6,598	1,504	5,107	66	2,520	79
Private	7,130	2,914	78	3,037	55	1,046	0

TABLE 70

## Higher education R&amp;D expenditures, by state, institutional control, institution, and source of funds: FY 2023

(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
Seattle U.	3,949	1,165	78	2,223	55	428	0
U. Puget Sound	1,613	1,300	0	138	0	175	0
Whitman C.	1,568	449	0	676	0	443	0
West Virginia	286,551	137,805	15,109	104,390	5,487	4,147	19,613
Public	286,551	137,805	15,109	104,390	5,487	4,147	19,613
Marshall U.	33,693	19,797	1,606	10,608	510	1,172	0
West Virginia School of Osteopathic Medicine	1,459 i	500 i	12 i	947 i	0 i	0 i	0 i
West Virginia State U.	5,226	2,800	1,804	521	0	101	0
West Virginia U.	246,173	114,708	11,687	92,314	4,977	2,874	19,613
Wisconsin	2,215,597	1,030,352	149,015	692,683	91,176	190,827	61,544
Public	1,816,328	853,292	147,975	560,654	49,369	155,052	49,986
U. Wisconsin-Eau Claire	2,191	1,027	509	389	248	10	8
U. Wisconsin-Green Bay	2,801	1,222	556	868	52	103	0
U. Wisconsin-La Crosse	2,921	714	804	639	709	44	11
U. Wisconsin-Madison	1,731,949	816,814	125,524	542,782	46,133	153,068	47,628
U. Wisconsin-Milwaukee	60,712	25,612	17,207	13,084	1,431	1,450	1,928
U. Wisconsin-Oshkosh	2,087	1,249	136	545	157	0	0
U. Wisconsin-Platteville	1,481 i	465 i	378 i	249 i	339 i	39 i	11 i
U. Wisconsin-River Falls	2,772	551	1,832	39	213	0	137
U. Wisconsin-Stevens Point	4,589	2,079	948	997	0	302	263
U. Wisconsin-Superior	4,825	3,559	81	1,062	87	36	0
Private	399,269	177,060	1,040	132,029	41,807	35,775	11,558
Marquette U.	47,819	20,055	246	18,010	879	2,385	6,244
Medical C. Wisconsin	346,691	155,403	754	113,726	38,419	33,075	5,314
Milwaukee School of Engineering	3,317	722	0	71	2,509	15	0
Northland C.	1,442 i	880 i	40 i	222 i	0 i	300 i	0 i
Wyoming	150,124	68,467	7,464	67,771	2,848	1,934	1,640
Public	150,124	68,467	7,464	67,771	2,848	1,934	1,640
U. Wyoming	150,124	68,467	7,464	67,771	2,848	1,934	1,640
Guam	22,388	18,992	2,252	1,083	59	2	0
Public	22,388	18,992	2,252	1,083	59	2	0
U. Guam	22,388	18,992	2,252	1,083	59	2	0
Puerto Rico	115,688	83,228	1,204	25,699	3,966	1,409	182
Public	108,678	78,167	680	24,429	3,966	1,409	27
U. Puerto Rico, Cayey	1,519	733	0	412	0	374	0

TABLE 70

**Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2023**

(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, Humacao	2,074	1,822	0	252	0	0	0
U. Puerto Rico, Mayaguez	13,989	12,260	193	421	455	660	0
U. Puerto Rico, Medical Sciences Campus	61,235	46,789	406	10,781	3,259	0	0
U. Puerto Rico, Ponce	659	510	0	149	0	0	0
U. Puerto Rico, Rio Piedras	29,202	16,053	81	12,414	252	375	27
Private	7,010	5,061	524	1,270	0	0	155
U. Ana G. Mendez, Gurabo	2,132	2,132	0	0	0	0	0
U. Central del Caribe	4,878	2,929	524	1,270	0	0	155
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.

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

<sup>b</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.

<sup>c</sup> The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2023.