

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2023

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Alabama						
Public						
U. Alabama, Birmingham	780,479	79,048	451,880	29,853	328,599	49,195
U. Alabama, Tuscaloosa	184,880	2,295	86,244	2,258	98,636	37
U. South Alabama	53,182	599	28,637	56	24,545	543
Arizona						
Public						
Northern Arizona U.	77,533	1,903	50,491	1,903	27,042	0
U. Arizona	955,424	13,614	434,700	2,868	520,724	10,746
Arkansas						
Public						
U. Arkansas for Medical Sciences	209,409	1,698	94,483	213	114,926	1,485
California						
Public						
California Polytechnic State U., San Luis Obispo	35,830	1,441	14,810	1,308	21,020	133
California State U., San Bernardino	13,152	233	7,606	233	5,546	0
California State U., San Marcos	11,443	6	9,845	6	1,598	0
San Francisco State U.	34,466	218	16,507	218	17,959	0
U. California, Berkeley	1,076,754	297	496,298	297	580,456	0
U. California, Davis	962,399	19,038	494,847	6,074	467,552	12,964
U. California, Irvine	609,614	22,200	335,393	7,923	274,221	14,277
U. California, Los Angeles	1,721,665	115,088	878,571	78,769	843,094	36,319
U. California, San Diego	1,705,410	27,837	1,083,790	11,340	621,620	16,497
U. California, San Francisco	2,046,539	94,522	858,066	41,584	1,188,473	52,938
Private						
Chapman U.	41,791	269	10,015	250	31,776	19
Charles R. Drew U. of Medicine and Science	19,551	232	13,297	0	6,254	232
Loma Linda U.	22,262	4,108	12,485	733	9,777	3,375
Loyola Marymount U.	14,086	724	2,921	724	11,165	0
Stanford U.	1,537,846	193,031	943,669	77,195	594,177	115,836
Touro U., California	2,877	969	1,279	969	1,598	0
U. Southern California	1,154,804	121,805	683,819	29,697	470,985	92,108
Western U. of Health Sciences	8,929	233	6,099	0	2,830	233
Colorado						
Public						

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Colorado State U., Fort Collins	498,073	150	354,401	6	143,672	144
U. Colorado Anschutz Medical Campus	686,026	62,501	474,523	7,558	211,503	54,943
U. Northern Colorado	9,064	32	1,705	0	7,359	32
Private						
U. Denver	53,484	671	33,148	636	20,336	35
Connecticut						
Public						
U. Connecticut	390,165	10,267	238,701	7,939	151,464	2,328
Private						
Trinity C., Hartford	4,099	98	687	98	3,412	0
Yale U.	1,326,807	41,353	741,198	0	585,609	41,353
Delaware						
Public						
U. Delaware	428,128	3,828	202,469	3,814	225,659	14
District of Columbia						
Private						
Gallaudet U.	9,894	1,103	5,523	891	4,371	212
George Washington U.	360,260	10,235	162,892	5,120	197,368	5,115
Georgetown U.	337,006	14,006	127,370	4	209,636	14,002
Howard U.	84,756	554	47,662	42	37,094	512
Florida						
Public						
Florida Atlantic U.	77,593	435	35,108	327	42,485	108
Florida International U.	306,434	9,802	156,381	9,162	150,053	640
Florida State U.	414,463	6,087	195,323	5,223	219,140	864
U. Central Florida	247,259	1,407	124,256	1,259	123,003	148
U. Florida	1,250,201	53,702	529,391	18,554	720,810	35,148
U. South Florida	461,390	20,153	242,224	243	219,166	19,910
Private						
Nova Southeastern U.	50,173	560	11,637	312	38,536	248
U. Miami	509,951	55,437	291,783	15,118	218,168	40,319
Georgia						
Public						
Augusta U.	139,121	5,106	64,410	276	74,711	4,830
U. Georgia	570,956	853	221,804	573	349,152	280

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Private						
Emory U.	1,094,328	63,284	664,370	14,456	429,958	48,828
Mercer U.	45,247	260	29,944	0	15,303	260
Morehouse School of Medicine	57,125	3,692	41,069	0	16,056	3,692
Hawaii						
Public						
U. Hawaii, Manoa	313,143	122	192,205	28	120,938	94
Illinois						
Public						
Southern Illinois U., Carbondale	58,291	4,631	17,209	3,021	41,082	1,610
U. Illinois, Chicago	492,936	32,022	274,424	24,598	218,512	7,424
U. Illinois, Urbana-Champaign	821,023	1,468	460,491	767	360,532	701
Private						
Loyola U., Chicago	52,445	4,033	29,712	568	22,733	3,465
Midwestern U.	12,725	242	2,862	202	9,863	40
Northwestern U.	1,114,269	369,078	678,062	305,866	436,207	63,212
Rosalind Franklin U. of Medicine and Science	11,629	3	7,124	0	4,505	3
Rush U.	132,394	25,705	93,180	10,790	39,214	14,915
U. Chicago	628,302	36,774	476,689	323	151,613	36,451
Indiana						
Public						
Ball State U.	11,650	2,415	6,355	2,415	5,295	0
Indiana U., Bloomington	853,056	68,056	432,223	34,391	420,833	33,665
Indiana U.-Purdue U., Indianapolis	87,648	1,911	39,869	1,548	47,779	363
Iowa						
Public						
U. Iowa	662,134	22,624	331,824	0	330,310	22,624
Private						
Des Moines U.	3,932	57	556	10	3,376	47
Palmer C. of Chiropractic, Davenport	1,725	1,500	1,500	1,500	225	0
Kansas						
Public						
U. Kansas	466,222	27,280	211,111	1,594	255,111	25,686
Kentucky						
Public						

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U. Kentucky	504,005	12,140	265,543	3,609	238,462	8,531
U. Louisville	220,568	11,264	100,890	3,689	119,678	7,575
Louisiana						
Public						
Louisiana State U., Baton Rouge	384,268	16,698	127,243	13,699	257,025	2,999
Louisiana State U., Health Sciences Center, New Orleans	68,707	767	35,933	144	32,774	623
Louisiana State U., Health Sciences Center, Shreveport	35,624	4,244	18,742	469	16,882	3,775
Private						
Tulane U.	258,439	9,074	152,468	86	105,971	8,988
Maine						
Private						
U. New England	6,756	16	4,777	16	1,979	0
Maryland						
Public						
U. Maryland ^a	1,385,302	30,384	825,546	7,577	559,756	22,807
Private						
Johns Hopkins U. ^b	3,801,585	51,211	3,324,551	582	477,034	50,629
Massachusetts						
Public						
U. Massachusetts, Medical School	326,731	7,260	223,490	126	103,241	7,134
Private						
Boston C.	81,425	3,520	39,356	1,154	42,069	2,366
Boston U.	773,200	2,892	409,551	553	363,649	2,339
Harvard U.	1,435,218	60,181	639,953	56,931	795,265	3,250
New England C. of Optometry	2,491	895	1,946	767	545	128
Tufts U.	247,276	1,659	154,458	1,345	92,818	314
Michigan						
Public						
Central Michigan U.	25,363	514	9,591	186	15,772	328
Grand Valley State U.	6,231	422	1,808	422	4,423	0
Michigan State U.	844,076	7,646	435,564	6,164	408,512	1,482
Oakland U.	37,263	535	9,600	435	27,663	100
U. Michigan, Ann Arbor	1,925,875	46,238	1,041,430	5,652	884,445	40,586
Wayne State U.	250,911	16,469	128,521	871	122,390	15,598
Western Michigan U. and Homer Stryker M.D. School of Medicine	45,157	375	12,631	2	32,526	373

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Minnesota						
Public						
U. Minnesota, Twin Cities	1,320,183	62,801	702,483	37,174	617,700	25,627
Mississippi						
Public						
Alcorn State U.	19,141	529 i	10,996	421 i	8,145	108 i
U. Mississippi	172,176	1,374	85,186	666	86,990	708
Missouri						
Public						
U. Missouri, Columbia	462,435	2,965	217,091	285	245,344	2,680
U. Missouri, Kansas City	54,565	207	28,115	0	26,450	207
Private						
Saint Louis U.	85,921	9,231	44,157	4,413	41,764	4,818
Washington U., Saint Louis	1,168,861	50,652	758,464	0	410,397	50,652
Montana						
Public						
Montana State U., Bozeman	229,682	1,727	142,965	1,711	86,717	16
Nebraska						
Public						
U. Nebraska, Lincoln and Medical Center ^c	617,372	15,653	280,120	7,340	337,252	8,313
U. Nebraska, Omaha	30,841	474	22,096	454	8,745	20
Private						
Creighton U.	28,443	2,391 i	12,681	675 i	15,762	1,716 i
Nevada						
Public						
U. Nevada, Las Vegas	98,751	116	38,815	0	59,936	116
U. Nevada, Reno	188,505	529	83,603	529	104,902	0
Private						
Roseman U. of Health Sciences	6,065	56	38	0	6,027	56
New Hampshire						
Private						
Dartmouth C. and Dartmouth Hitchcock Medical Center	366,856	19,982	168,740	15,999	198,116	3,983
New Jersey						
Public						
Rutgers, State U. New Jersey, New Brunswick	831,719	16,822	400,930	4,867	430,789	11,955

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New Mexico						
Public						
New Mexico Highlands U.	3,468	421 i	3,416	421 i	52	0 i
U. New Mexico	316,026	10,828	205,351	6,053	110,675	4,775
New York						
Public						
CUNY, C. Staten Island	4,730	677	3,296	519	1,434	158
SUNY, C. of Optometry	4,423	1,266	2,469	9	1,954	1,257
SUNY, Downstate Health Sciences U.	35,600	495	28,543	137	7,057	358
SUNY, Stony Brook U.	324,531	10,334	192,448	4,980	132,083	5,354
SUNY, U. Buffalo	471,569	6,525	257,857	595	213,712	5,930
SUNY, Upstate Medical U.	53,219	6,864	30,069	608	23,150	6,256
Private						
Albany Medical C.	23,259	2,355	14,193	17	9,066	2,338
Albert Einstein C. of Medicine	336,238	323	230,151	314	106,087	9
Columbia U. in the City of New York	1,341,952	110,102	988,670	52,550	353,282	57,552
Cornell U.	1,451,971	27,115	705,132	11,003	746,839	16,112
Icahn School of Medicine at Mount Sinai	972,476	143,186	658,916	74,289	313,560	68,897
Ithaca C.	861	10	453	10	408	0
New School	22,680	568	1,337	489	21,343	79
New York Medical C.	17,113	2,711	8,226	342	8,887	2,369
New York U.	1,457,424	50,040	787,204	4,097	670,220	45,943
Rockefeller U.	385,168	105	101,422	46	283,746	59
Syracuse U.	183,850	19	46,595	19	137,255	0
U. Rochester	481,227	38,450	368,190	16,230	113,037	22,220
North Carolina						
Public						
East Carolina U.	67,082	3,432	30,851	298	36,231	3,134
U. North Carolina, Chapel Hill	1,549,617	54,752	907,710	11,653	641,907	43,099
U. North Carolina, Greensboro	44,521	1,368	31,581	1,368	12,940	0
Private						
Duke U.	1,507,996	720,471	974,202	506,571	533,794	213,900
Wake Forest U.	308,972	40,875	204,713	24,830	104,259	16,045
Ohio						
Public						

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Kent State U.	58,984	576	17,959	516	41,025	60
Miami U.	28,430	208	10,724	208	17,706	0
Ohio State U.	1,449,188	100,145	694,647	37,152	754,541	62,993
Ohio U.	59,877	224	21,919	221	37,958	3
U. Cincinnati	698,642	35,719	391,943	14,624	306,699	21,095
U. Toledo	67,656	1,164	37,872	176	29,784	988
Wright State U.	26,189	685	19,081	419	7,108	266
Private						
Case Western Reserve U.	553,740	28,431	431,736	27,190	122,004	1,241
Oklahoma						
Public						
Oklahoma State U., Center for Health Sciences	12,500	253	4,773	241	7,727	12
U. Oklahoma, Norman and Health Science Center	436,964	8,242	219,964	323	217,000	7,919
U. Oklahoma, Tulsa	5,826	60	1,328	0	4,498	60
Private						
U. Tulsa	24,845	2	8,545	0	16,300	2
Oregon						
Public						
Oregon Health and Science U.	517,742	76,099	374,043	30,232	143,699	45,867
U. Oregon	164,500	7,293	100,265	7,117	64,235	176
Private						
National U. of Natural Medicine	1,336	214	862	45	474	169
Pacific U.	10,719	2,052	7,133	1,983	3,586	69
Pennsylvania						
Public						
Pennsylvania State U., University Park and Hershey Medical Center	1,206,793	21,120	781,303	13,260	425,490	7,860
Temple U.	292,029	22,245	154,516	1,087	137,513	21,158
U. Pittsburgh, Pittsburgh	1,398,078	39,861	916,735	17,955	481,343	21,906
West Chester U. Pennsylvania	6,132	323	1,386	323	4,746	0
Private						
Carnegie Mellon U.	484,757	1,451	279,954	1,449	204,803	2
Drexel U.	169,583	740	108,724	147	60,859	593
Thomas Jefferson U.	258,345	24,900	110,366	6,208	147,979	18,692
U. Pennsylvania	1,953,617	77,389	936,469	7,691	1,017,148	69,698
Rhode Island						

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Public						
U. Rhode Island	144,013	109	102,056	109	41,957	0
South Carolina						
Public						
Medical U. South Carolina	333,826	49,658 i	168,957	22,921 i	164,869	26,737 i
U. South Carolina, Columbia	262,207	247	124,330	113	137,877	134
South Dakota						
Public						
Black Hills State U.	2,260	63	1,918	63	342	0
Tennessee						
Public						
U. Tennessee, Health Science Center	130,472	3,878	70,676	18	59,796	3,860
U. Tennessee, Knoxville	338,847	6	153,637	0	185,210	6
Private						
Meharry Medical C.	22,002	935	18,398	761	3,604	174
Vanderbilt U. and Vanderbilt U. Medical Center	1,253,156	97,246	751,019	50,684	502,137	46,562
Texas						
Public						
Texas A&M U., College Station and Health Science Center	1,277,814	2,537	546,481	1,087	731,333	1,450
Texas State U.	141,291	128	44,297	128	96,994	0
Texas Tech U.	240,107	11	58,922	11	181,185	0
Texas Tech U., Health Sciences Center	48,638	190	14,732	13	33,906	177
Texas Tech U., Health Sciences Center, El Paso	13,189	895	2,415	535	10,774	360
Texas Woman's U.	6,922	138	2,439	35	4,483	103
U. Houston	231,942	4,653	99,450	4,426	132,492	227
U. North Texas, Health Science Center	94,652	111	77,660	94	16,992	17
U. Texas Health Science Center, Houston	374,105	25,829	197,759	12,755	176,346	13,074
U. Texas Health Science Center, San Antonio	281,078	13,435	143,730	4,520	137,348	8,915
U. Texas Health Science Center, Tyler	32,077	189	12,555	52	19,522	137
U. Texas M. D. Anderson Cancer Center	1,255,190	198,319	259,285	4,163	995,905	194,156
U. Texas Medical Branch	233,192	5,149	150,272	3,404	82,920	1,745
U. Texas Rio Grande Valley	82,444	898	25,068	898	57,376	0
U. Texas Southwestern Medical Center	800,391	61,870	336,126	30,154	464,265	31,716
U. Texas, Arlington	147,265	1,057	56,337	706	90,928	351
U. Texas, Austin	1,035,838	2,479	621,223	480	414,615	1,999

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U. Texas, El Paso	145,724	942	70,873	942	74,851	0
U. Texas, San Antonio	158,453	328	58,171	328	100,282	0
Private						
Baylor C. of Medicine	847,305	49,333	440,345	20,619	406,960	28,714
Baylor U.	82,074	1,277	17,147	1,277	64,927	0
Rice U.	255,115	856	119,853	605	135,262	251
Texas Christian U.	24,050	5,251	7,627	5,239	16,423	12
Utah						
Public						
U. Utah	723,713	37,370	416,079	0	307,634	37,370
Vermont						
Public						
U. Vermont	233,806	9,565	128,645	7,530	105,161	2,035
Virginia						
Public						
Eastern Virginia Medical School	23,991	1,439	17,947	166	6,044	1,273
Old Dominion U.	71,334	870	31,104	753	40,230	117
U. Virginia, Charlottesville	714,457	13,165	354,748	2,222	359,709	10,943
Virginia Commonwealth U.	479,930	5,112	184,852	1,540	295,078	3,572
Virginia Polytechnic Institute and State U.	598,113	9,548	282,152	9,354	315,961	194
Washington						
Public						
U. Washington, Seattle	1,734,091	97,300	1,188,836	39,769	545,255	57,531
Washington State U.	378,744	7,881	207,086	7,751	171,658	130
West Virginia						
Public						
West Virginia U.	246,173	2,438	114,708	1,007	131,465	1,431
Wisconsin						
Public						
U. Wisconsin-Madison	1,731,949	24,903	816,814	1,913	915,135	22,990
Private						
Marquette U.	47,819	3,521	20,055	3,019	27,764	502
Medical C. Wisconsin	346,691	30,149	155,403	760	191,288	29,389
Puerto Rico						
Public						

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U. Puerto Rico, Medical Sciences Campus	61,235	2,708	46,789	2,707	14,446	1
Private						
U. Central del Caribe	4,878	57	2,929	0	1,949	57

i = imputed.

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

^b Johns Hopkins University includes the Applied Physics Laboratory, with zero in both total and federally financed clinical trials R&D expenditures in FY 2023.

^c 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.