

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2022

(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	713,480	66,549	421,223	25,264	292,257	41,285
U. Alabama, Tuscaloosa	163,204	2,501	67,986	2,496	95,218	5
U. South Alabama	43,491	994	23,762	45	19,729	949
Arizona						
Public						
Northern Arizona U.	66,729	1,424	43,453	1,424	23,276	0
U. Arizona	824,340	14,157	374,936	2,865	449,404	11,292
Private						
Sonoran U. Health Sciences	520	50	0	0	520	50
Arkansas						
Public						
U. Arkansas for Medical Sciences	205,493	2,789	95,080	154	110,413	2,635
California						
Public						
California Polytechnic State U., San Luis Obispo	33,155	933	15,084	799	18,071	134
California State U., San Bernardino	11,929	48	6,693	48	5,236	0
California State U., San Marcos	9,238	91	7,986	91	1,252	0
San Francisco State U.	36,617	526	15,276	526	21,341	0
U. California, Berkeley	981,035	226	468,542	226	512,493	0
U. California, Davis	883,807	17,254	468,468	5,059	415,339	12,195
U. California, Irvine	534,947	23,798	291,393	6,535	243,554	17,263
U. California, Los Angeles	1,536,197	102,237	848,138	71,343	688,059	30,894
U. California, San Diego	1,533,357	24,361	970,696	9,209	562,661	15,152
U. California, San Francisco	1,805,950	77,897	780,318	36,583	1,025,632	41,314
Private						
Chapman U.	34,212	158	11,098	157	23,114	1
Charles R. Drew U. of Medicine and Science	14,581	368	10,656	173	3,925	195
Loma Linda U.	15,517	3,384	9,134	182	6,383	3,202
Loyola Marymount U.	12,773	593	2,824	593	9,949	0
Stanford U.	1,384,555	165,309	860,125	65,286	524,430	100,023
Touro U., California	2,561	756	964	752	1,597	4
U. San Diego	10,143	6	2,911	6	7,232	0
U. Southern California	1,039,905	104,815	601,747	20,989	438,158	83,826
Western U. of Health Sciences	9,029	286	7,131	0	1,898	286
Colorado						
Public						
Colorado State U., Fort Collins	456,911	309	316,727	203	140,184	106
U. Colorado Anschutz Medical Campus ^a	611,358	51,338	429,949	4,750	181,409	46,588
Private						
U. Denver	45,561	766	26,040	698	19,521	68
Connecticut						
Public						
U. Connecticut	367,557	7,540	230,752	5,413	136,805	2,127
Private						
Trinity C., Hartford	1,620	105	1,049	105	571	0
Yale U.	1,191,201	41,353	689,270	0	501,931	41,353

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Delaware						
Public						
U. Delaware	368,107	3,402	194,775	3,401	173,332	1
District of Columbia						
Private						
George Washington U.	275,483	24,120	161,867	21,673	113,616	2,447
Georgetown U.	313,220	13,406	127,213	10	186,007	13,396
Howard U.	67,594	538	37,331	37	30,263	501
Florida						
Public						
Florida Atlantic U.	61,748	277	28,641	264	33,107	13
Florida International U.	281,665	10,540	129,683	9,534	151,982	1,006
Florida State U.	355,986	5,424	163,744	4,371	192,242	1,053
U. Central Florida	221,488	2,396	110,131	2,359	111,357	37
U. Florida	1,085,834	44,222	467,739	16,615	618,095	27,607
U. South Florida ^b	405,166	16,176	206,552	1,573	198,614	14,603
Private						
Nova Southeastern U.	31,189	258	9,314	0	21,875	258
U. Miami	439,300	46,133	265,212	14,046	174,088	32,087
Georgia						
Public						
Augusta U.	127,313	3,684	64,609	59	62,704	3,625
U. Georgia	545,631	1,115	220,343	718	325,288	397
Private						
Emory U.	958,281	66,715	568,149	15,146	390,132	51,569
Mercer U.	50,222	261	32,504	0	17,718	261
Morehouse School of Medicine	42,489	413	31,339	0	11,150	413
Hawaii						
Public						
U. Hawaii, Manoa	277,323	183	169,762	0	107,561	183
Illinois						
Public						
Southern Illinois U., Carbondale	46,967	1,333	13,582	0	33,385	1,333
U. Illinois, Chicago	440,573	27,889	251,328	22,540	189,245	5,349
U. Illinois, Urbana-Champaign	765,909	576	420,953	507	344,956	69
Private						
Loyola U., Chicago	46,169	3,879	26,972	476	19,197	3,403
Midwestern U.	11,069	10	1,609	0	9,460	10
Northwestern U.	1,000,695	378,292	618,771	310,950	381,924	67,342
Rosalind Franklin U. of Medicine and Science	12,988	36	7,292	0	5,696	36
Rush U.	114,874	24,573	79,647	9,251	35,227	15,322
U. Chicago	591,805	40,050	456,806	73	134,999	39,977
Indiana						
Public						
Ball State U.	9,932	2,642	5,302	2,642	4,630	0
Indiana U., Bloomington	751,309	56,297	360,300	24,339	391,009	31,958
Indiana U.-Purdue U., Indianapolis	64,162	3,136	29,353	2,600	34,809	536
Iowa						

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Public						
U. Iowa	594,215	21,944	314,346	0	279,869	21,944
Private						
Des Moines U.	5,307	36	1,589	35	3,718	1
Palmer C. of Chiropractic, Davenport	2,050	1,500	1,550	1,500	500	0
Kansas						
Public						
U. Kansas	405,267	25,922	200,117	1,112	205,150	24,810
Kentucky						
Public						
U. Kentucky	476,517	12,914	253,852	5,031	222,665	7,883
U. Louisville	229,582	11,868	117,363	4,136	112,219	7,732
Louisiana						
Public						
Louisiana State U., Baton Rouge	344,556	15,573	111,886	11,079	232,670	4,494
Louisiana State U., Health Sciences Center, New Orleans	53,995	1,307	33,087	223	20,908	1,084
Louisiana State U., Health Sciences Center, Shreveport	29,502	1,404	15,503	425	13,999	979
Private						
Tulane U.	222,605	10,910	127,544	116	95,061	10,794
Maine						
Private						
U. New England	6,664	80	3,660	80	3,004	0
Maryland						
Public						
U. Maryland ^c	1,228,550	33,505	750,447	4,911	478,103	28,594
Private						
Johns Hopkins U. ^d	3,420,312	48,389	2,971,816	819	448,496	47,570
Massachusetts						
Public						
U. Massachusetts, Medical School	358,204	8,132	258,147	541	100,057	7,591
Private						
Boston C.	68,958	685	36,560	685	32,398	0
Boston U.	725,402	2,200	413,102	240	312,300	1,960
Harvard U.	1,308,458	59,642	628,683	54,165	679,775	5,477
New England C. of Optometry	1,868	695	1,609	634	259	61
Tufts U.	231,224	2,047	150,081	1,329	81,143	718
Michigan						
Public						
Central Michigan U.	25,105	182	9,773	109	15,332	73
Grand Valley State U.	6,695	847	1,819	847	4,876	0
Michigan State U.	759,229	4,142	381,504	3,175	377,725	967
Michigan Technological U.	91,084	55	48,766	55	42,318	0
Oakland U.	38,061	39	9,533	0	28,528	39
U. Michigan, Ann Arbor	1,770,708	42,101	970,636	5,197	800,072	36,904
Wayne State U.	242,247	10,842	126,814	734	115,433	10,108
Western Michigan U. and Homer Stryker M.D. School of Medicine	27,768	322	12,895	29	14,873	293
Minnesota						

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Public						
U. Minnesota, Twin Cities	1,202,084	101,716	652,384	77,838	549,700	23,878
Private						
St. Catherine U.	933	30	300	0	633	30
Mississippi						
Public						
U. Mississippi	152,903	5,766	84,270	4,589	68,633	1,177
Missouri						
Public						
U. Missouri, Columbia	432,310	3,946	182,432	784	249,878	3,162
U. Missouri, Kansas City	52,657	73	31,134	0	21,523	73
Private						
Saint Louis U.	82,740	3,242	42,170	180	40,570	3,062
Washington U., Saint Louis	1,047,098	46,637	681,353	17,342	365,745	29,295
Montana						
Public						
Montana State U., Bozeman	200,820	1,438	118,974	1,424	81,846	14
Nebraska						
Public						
U. Nebraska, Lincoln	340,260	2,366	113,248	2,120	227,012	246
U. Nebraska, Medical Center	205,253	16,289	114,754	10,650	90,499	5,639
Private						
Creighton U.	27,609	1,609	12,022	452	15,587	1,157
Nevada						
Public						
U. Nevada, Las Vegas	94,967	132	28,867	0	66,100	132
U. Nevada, Reno	181,782	681	83,631	635	98,151	46
Private						
Roseman U. of Health Sciences	6,296	30	30	0	6,266	30
New Hampshire						
Private						
Dartmouth C. and Dartmouth Hitchcock Medical Center	344,126	21,561	155,445	10,963	188,681	10,598
New Jersey						
Public						
Rutgers, State U. New Jersey, New Brunswick	712,231	19,011	351,660	5,757	360,571	13,254
New Mexico						
Public						
U. New Mexico	331,164	8,766	232,774	5,226	98,390	3,540
New York						
Public						
CUNY, C. Staten Island	3,545	584	2,916	461	629	123
CUNY, Graduate School of Public Health and Health Policy	16,423	49	11,880	49	4,543	0
SUNY, C. of Optometry	4,497	1,623	2,080	6	2,417	1,617
SUNY, Downstate Health Sciences U.	30,918	538	25,081	296	5,837	242
SUNY, Stony Brook U.	312,698	9,482	184,154	4,518	128,544	4,964
SUNY, U. Buffalo	439,709	5,814	218,231	913	221,478	4,901
SUNY, Upstate Medical U.	50,586	6,982	27,737	674	22,849	6,308
Private						

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Albany Medical C.	22,297	4,048	13,384	93	8,913	3,955
Albert Einstein C. of Medicine	318,314	184	220,780	166	97,534	18
Columbia U. in the City of New York	1,230,924	93,271	904,346	42,965	326,578	50,306
Cornell U.	1,300,357	21,623	636,481	6,434	663,876	15,189
Icahn School of Medicine at Mount Sinai	893,968	134,301	610,646	66,466	283,322	67,835
Ithaca C.	1,000	92	703	92	297	0
New York Medical C.	16,461	1,647	9,070	518	7,391	1,129
New York U.	1,276,038	40,378	668,381	4,518	607,657	35,860
Rockefeller U.	360,877	121	94,693	48	266,184	73
Syracuse U.	157,407	251	33,976	251	123,431	0
U. Rochester	450,805	47,635	334,503	16,345	116,302	31,290
North Carolina						
Public						
East Carolina U.	55,693	2,869	29,648	240	26,045	2,629
U. North Carolina, Chapel Hill	1,361,028	46,460	827,158	9,216	533,870	37,244
U. North Carolina, Greensboro	41,303	1,458	29,822	1,458	11,481	0
Private						
Duke U.	1,390,538	652,897	901,807	447,761	488,731	205,136
Wake Forest U.	269,109	30,124	180,754	18,973	88,355	11,151
North Dakota						
Public						
North Dakota State U.	174,904	4	45,343	3	129,561	1
Ohio						
Public						
Kent State U.	52,175	467	16,195	466	35,980	1
Miami U.	28,799	13	10,277	12	18,522	1
Ohio State U.	1,363,388	91,153	636,902	36,593	726,486	54,560
Ohio U.	52,465	79	20,587	64	31,878	15
U. Cincinnati	615,070	29,715	350,392	15,029	264,678	14,686
U. Toledo	64,654	1,332	36,694	210	27,960	1,122
Wright State U.	27,440	517	20,529	345	6,911	172
Private						
Case Western Reserve U.	467,389	5,181	380,423	4,957	86,966	224
Oklahoma						
Public						
Oklahoma State U., Center for Health Sciences	8,368	13	3,366	0	5,002	13
U. Oklahoma, Norman and Health Science Center	408,656	11,721	210,994	23	197,662	11,698
U. Oklahoma, Tulsa	7,945	79	1,804	0	6,141	79
Private						
U. Tulsa	17,416	5	5,893	0	11,523	5
Oregon						
Public						
Oregon Health and Science U.	479,226	65,230	346,724	28,926	132,502	36,304
U. Oregon	160,500	8,392	97,238	8,288	63,262	104
Private						
Pacific U.	6,128	760	2,672	733	3,456	27
Pennsylvania						
Public						

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Pennsylvania State U., University Park and Hershey Medical Center	1,019,940	5,302	681,159	0	338,781	5,302
Temple U.	301,395	24,435	143,580	2,400	157,815	22,035
U. Pittsburgh, Pittsburgh	1,251,998	24,184	814,647	8,174	437,351	16,010
Private						
Carnegie Mellon U.	449,707	1,666	259,160	1,659	190,547	7
Drexel U.	151,903	764	99,399	132	52,504	632
Thomas Jefferson U.	321,644	24,610	173,861	6,081	147,783	18,529
U. Pennsylvania	1,791,311	67,030	873,318	5,784	917,993	61,246
South Carolina						
Public						
Medical U. South Carolina	284,553	41,815	163,395	22,166	121,158	19,649
U. South Carolina, Columbia	229,162	197	106,752	86	122,410	111
Tennessee						
Public						
East Tennessee State U.	23,420	75	9,715	0	13,705	75
U. Tennessee, Health Science Center	115,161	3,896	60,221	416	54,940	3,480
U. Tennessee, Knoxville	324,435	20	149,260	0	175,175	20
Private						
Meharry Medical C.	17,960	836	15,048	662	2,912	174
Vanderbilt U. and Vanderbilt U. Medical Center	1,086,223	87,817	666,282	48,288	419,941	39,529
Texas						
Public						
Texas A&M U., College Station and Health Science Center	1,152,666	1,149	505,355	0	647,311	1,149
Texas Tech U., Health Sciences Center	46,574	229	14,620	0	31,954	229
Texas Tech U., Health Sciences Center, El Paso	14,206	1,133	2,339	540	11,867	593
Texas Woman's U.	6,029	185	2,091	96	3,938	89
U. Houston	240,126	1,575	84,295	1,400	155,831	175
U. North Texas, Health Science Center	10,439	48	3,172	48	7,267	0
U. Texas Health Science Center, Houston	342,633	18,296	184,205	7,737	158,428	10,559
U. Texas Health Science Center, San Antonio	238,510	11,413	119,071	1,942	119,439	9,471
U. Texas Health Science Center, Tyler	33,872	815	14,362	705	19,510	110
U. Texas M. D. Anderson Cancer Center	1,182,536	180,599	225,659	3,139	956,877	177,460
U. Texas Medical Branch	204,518	3,416	123,467	2,298	81,051	1,118
U. Texas Rio Grande Valley	64,401	1,051	18,317	779	46,084	272
U. Texas Southwestern Medical Center	719,002	43,749	298,154	15,807	420,848	27,942
U. Texas, Arlington	133,770	1,168	56,025	885	77,745	283
U. Texas, Austin	845,896	1,099	536,296	190	309,600	909
U. Texas, El Paso	130,501	1,550	60,387	1,550	70,114	0
Private						
Baylor C. of Medicine	827,005	42,932	420,054	19,414	406,951	23,518
Baylor U.	66,014	1,605	15,856	1,605	50,158	0
Rice U.	216,202	165	105,345	165	110,857	0
Texas Christian U.	18,353	3,927	5,670	3,927	12,683	0
Utah						
Public						
U. Utah	670,119	33,956	367,040	0	303,079	33,956
Vermont						

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Public						
U. Vermont	216,307	10,007	117,163	6,324	99,144	3,683
Virginia						
Public						
Eastern Virginia Medical School	22,165	1,376	17,616	930	4,549	446
Old Dominion U.	64,877	533	27,804	524	37,073	9
U. Virginia, Charlottesville	662,658	8,886	332,993	283	329,665	8,603
Virginia Commonwealth U.	405,898	3,351	166,726	1,225	239,172	2,126
Virginia Polytechnic Institute and State U.	591,861	5,762	240,305	5,429	351,556	333
Washington						
Public						
U. Washington, Seattle	1,559,708	60,330	1,083,090	25,636	476,618	34,694
Washington State U.	368,396	9,100	187,580	8,902	180,816	198
West Virginia						
Public						
Marshall U.	25,692	1	16,369	1	9,323	0
West Virginia U.	214,081	3,490	97,327	1,095	116,754	2,395
Wisconsin						
Public						
U. Wisconsin-Madison	1,523,513	21,279	740,854	1,518	782,659	19,761
Private						
Marquette U.	40,638	1,787	15,316	1,597	25,322	190
Medical C. Wisconsin	321,506	23,307	152,301	1,197	169,205	22,110
Puerto Rico						
Public						
U. Puerto Rico, Medical Sciences Campus	47,578	2,113	35,050	1,494	12,528	619
Private						
U. Central del Caribe	5,053	79	2,807	0	2,246	79

i = imputed.

^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 zero in both total and federally financed clinical trials R&D expenditures in FY 2022.

Source(s):

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