

TABLE 73

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2021

(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	644,330	60,384	423,290	25,731	221,040	34,653
U. Alabama, Tuscaloosa	129,509	1,271	53,880	1,134	75,629	137
U. South Alabama	47,610	1,260	23,758	97	23,852	1,163
Arizona						
Public						
Northern Arizona U.	69,129	718	41,744	668	27,385	50
U. Arizona	770,031	11,797	353,117	922	416,914	10,875
Arkansas						
Public						
U. Arkansas for Medical Sciences	194,709	2,752	83,387	87	111,322	2,665
California						
Public						
California Polytechnic State U., San Luis Obispo	25,953	1,345	11,163	1,177	14,790	168
California State U., San Marcos	10,213	35	8,831	35	1,382	0
San Francisco State U.	35,768	1	15,993	1	19,775	0
U. California, Berkeley	846,872	422	354,478	60	492,394	362
U. California, Davis	817,409	20,041	373,719	2,204	443,690	17,837
U. California, Irvine	523,752	21,692	255,010	4,547	268,742	17,145
U. California, Los Angeles	1,454,880	153,510	721,043	108,061	733,837	45,449
U. California, Riverside	189,600	5	97,182	0	92,418	5
U. California, San Diego	1,425,499	5,199	801,117	1,094	624,382	4,105
U. California, San Francisco	1,710,036	67,229	683,179	28,216	1,026,857	39,013
Private						
Chapman U.	25,820	1	8,574	0	17,246	1
Charles R. Drew U. of Medicine and Science	13,228	755	9,945	678	3,283	77
Loma Linda U.	14,029	1,571	10,116	230	3,913	1,341
Stanford U.	1,274,483	132,320	811,183	59,409	463,300	72,911
Touro U.	3,489	671	1,377	651	2,112	20
U. San Diego	7,580	16	2,554	16	5,026	0
U. Southern California	955,565	88,909	574,185	68,733	381,380	20,176
Western U. of Health Sciences	6,688	34	5,620	0	1,068	34
Colorado						

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Public						
U. Colorado Anschutz Medical Campus ^a	562,855	46,929	363,999	3,136	198,856	43,793
Private						
U. Denver	38,751	87	23,415	87	15,336	0
Connecticut						
Public						
Southern Connecticut State U.	5,750	6	713	6	5,037	0
U. Connecticut	302,329	6,943	183,362	4,685	118,967	2,258
Private						
Yale U.	1,165,148	29,019	647,656	0	517,492	29,019
Delaware						
Public						
U. Delaware	231,532	3,224	157,725	3,224	73,807	0
District of Columbia						
Private						
George Washington U.	266,108	10,228	161,349	7,520	104,759	2,708
Georgetown U.	279,932	14,350	130,419	22	149,513	14,328
Howard U.	52,412	533	35,443	35	16,969	498
Florida						
Public						
Florida Atlantic U.	58,471	298	28,510	0	29,961	298
Florida International U.	246,075	9,701	105,309	7,581	140,766	2,120
Florida State U.	328,604	3,736	150,108	3,065	178,496	671
U. Central Florida	218,596	2,661	109,310	2,541	109,286	120
U. Florida	959,965	41,833	423,154	13,567	536,811	28,266
U. South Florida ^b	405,088	14,835	185,364	710	219,724	14,125
U. West Florida	36,837	8	13,313	0	23,524	8
Private						
Nova Southeastern U.	24,513	151	10,386	0	14,127	151
U. Miami	375,841	42,309	231,001	11,706	144,840	30,603
Georgia						
Public						
Augusta U.	116,480	3,461	61,943	34	54,537	3,427

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U. Georgia	493,944	904	188,451	678	305,493	226
Private						
Emory U.	852,922	64,329	515,940	13,642	336,982	50,687
Mercer U.	51,989	418	34,413	56	17,576	362
Morehouse School of Medicine	32,637	74	25,181	0	7,456	74
Hawaii						
Public						
U. Hawaii, Manoa	271,768	108	157,772	51	113,996	57
Illinois						
Public						
Southern Illinois U., Carbondale	47,210	1,466	12,655	0	34,555	1,466
U. Illinois, Chicago	429,585	21,977	237,949	17,534	191,636	4,443
U. Illinois, Urbana-Champaign	731,268	331	406,612	328	324,656	3
Private						
Loyola U., Chicago	44,036	3,473	26,793	177	17,243	3,296
Midwestern U.	10,961	41	1,506	0	9,455	41
Northwestern U.	913,178	54,086 i	572,975	19,787 i	340,203	34,299 i
Rosalind Franklin U. of Medicine and Science	13,805	45	9,357	0	4,448	45
Rush U.	107,398	20,353	73,279	6,593	34,119	13,760
U. Chicago	497,651	32,310	394,275	183	103,376	32,127
Indiana						
Public						
Ball State U.	8,826	409	2,469	409	6,357	0
Indiana U., Bloomington	695,258	48,828	326,326	20,744	368,932	28,084
Indiana U.-Purdue U., Indianapolis	65,330	4,187	30,290	2,932	35,040	1,255
Iowa						
Public						
U. Iowa	553,876	17,013	283,763	0	270,113	17,013
Private						
Des Moines U.	5,258 i	4 i	485 i	0 i	4,773 i	4 i
Palmer C. of Chiropractic, Davenport	2,233	2,000	1,733	1,500	500	500
Kansas						
Public						
U. Kansas	385,637	13,249	187,249	1,411	198,388	11,838

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Kentucky						
Public						
U. Kentucky	429,241	10,955	220,703	5,335	208,538	5,620
U. Louisville	200,362	8,263	97,179	2,673	103,183	5,590
Louisiana						
Public						
Louisiana State U., Baton Rouge	296,673	15,042	103,178	10,871	193,495	4,171
Louisiana State U., Health Sciences Center, New Orleans	44,370	849	34,272	23	10,098	826
Louisiana State U., Health Sciences Center, Shreveport	24,600	209	12,359	82	12,241	127
Private						
Tulane U.	205,206	6,796	113,819	177	91,387	6,619
Maine						
Private						
U. New England	6,234	97	3,864	97	2,370	0
Maryland						
Public						
Towson U.	3,794	11	1,758	11	2,036	0
U. Maryland ^c	1,142,264	35,658	713,283	5,564	428,981	30,094
Private						
Johns Hopkins U. ^d	3,181,385	40,085	2,774,643	463	406,742	39,622
Massachusetts						
Public						
U. Massachusetts, Medical School	347,337	5,588	248,873	154	98,464	5,434
Private						
Boston C.	65,156	675	34,257	675	30,899	0
Boston U.	652,096	2,121	402,443	200	249,653	1,921
Harvard U.	1,254,008	48,595	616,589	42,294	637,419	6,301
New England C. of Optometry	1,978	676	1,623	577	355	99
Tufts U.	224,956	1,576	166,809	688	58,147	888
Michigan						
Public						
Central Michigan U.	21,726	201	6,919	112	14,807	89
Grand Valley State U.	6,809	482	1,415	482	5,394	0

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Michigan State U.	710,178	2,330	349,889	1,773	360,289	557
Michigan Technological U.	81,715	38	41,505	37	40,210	1
U. Michigan, Ann Arbor	1,639,645	34,916	891,125	3,728	748,520	31,188
U. Michigan, Flint	752	23	113	23	639	0
Wayne State U.	235,519	14,679	117,976	1,138	117,543	13,541
Western Michigan U. and Homer Stryker M.D. School of Medicine	25,314	296	13,944	0	11,370	296
Minnesota						
Public						
U. Minnesota, Twin Cities	1,072,961	63,194	570,946	43,345	502,015	19,849
Mississippi						
Public						
U. Mississippi	116,175	4,856	76,886	4,132	39,289	724
Missouri						
Public						
U. Missouri, Columbia	388,779	3,252	163,576	1,079	225,203	2,173
U. Missouri, Kansas City	33,855	319	21,203	123	12,652	196
Private						
Saint Louis U.	79,005	2,153	41,411	245	37,594	1,908
Washington U., Saint Louis	989,214	25,405	606,127	9,294 i	383,087	16,111 i
Montana						
Public						
Montana State U., Bozeman	193,577	1,090	113,257	1,070	80,320	20
Nebraska						
Public						
U. Nebraska, Kearney	3,201	206	1,327	206	1,874	0
U. Nebraska, Lincoln	307,083	2,141	106,564	2,066	200,519	75
U. Nebraska, Medical Center	200,974	14,872	111,042	10,066	89,932	4,806
Private						
Creighton U.	23,251	1,800 i	8,585	573 i	14,666	1,227 i
Nevada						
Public						
U. Nevada, Reno	175,386	652	77,246	582	98,140	70
Private						
Roseman U. of Health Sciences	5,985	91	53	0	5,932	91

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New Hampshire						
Private						
Dartmouth C. and Dartmouth Hitchcock Medical Center	330,226	19,297	152,335	13,617	177,891	5,680
New Jersey						
Public						
Rutgers, State U. New Jersey, New Brunswick	643,955	17,663	339,015	7,044	304,940	10,619
New Mexico						
Public						
New Mexico State U.	110,580	198	64,699	198	45,881	0
U. New Mexico	332,566	6,747	242,212	4,611	90,354	2,136
New York						
Public						
CUNY, C. Staten Island	2,860	686	2,234	502	626	184
CUNY, Graduate School of Public Health and Health Policy	15,035	371	12,254	371	2,781	0
SUNY, C. of Optometry	3,460	905	2,105	6	1,355	899
SUNY, Downstate Health Sciences U.	34,459	608	27,620	253	6,839	355
SUNY, Stony Brook U.	274,516	6,291	162,972	3,948	111,544	2,343
SUNY, U. Buffalo	425,349	7,359	210,257	600	215,092	6,759
SUNY, Upstate Medical U.	44,870	5,313	24,974	729	19,896	4,584
Private						
Albany Medical C.	22,443	3,766	13,166	65	9,277	3,701
Albert Einstein C. of Medicine	301,715	88	214,619	88	87,096	0
Columbia U. in the City of New York	1,098,570	85,181	831,648	37,130	266,922	48,051
Cornell U.	1,183,524	14,318	592,359	6,629	591,165	7,689
Icahn School of Medicine at Mount Sinai	820,260	93,524	554,582	41,863	265,678	51,661
Ithaca C.	1,030	78	685	78	345	0
New York Medical C.	18,872	4,176	10,739	1,707	8,133	2,469
New York U.	1,063,704	35,984	547,027	4,962	516,677	31,022
Rockefeller U.	357,543	200	96,318	47	261,225	153
Syracuse U.	151,717	267	34,200	266	117,517	1
U. Rochester	409,255	42,848	309,647	12,711	99,608	30,137
North Carolina						
Public						
East Carolina U.	51,662	2,920	22,813	156	28,849	2,764

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U. North Carolina, Chapel Hill	1,205,883	42,681	747,895	8,795	457,988	33,886
U. North Carolina, Greensboro	37,033	1,344	24,423	1,344	12,610	0
Private						
Duke U.	1,237,686	631,158	776,632	410,586	461,054	220,572
Wake Forest U.	264,216	25,584	188,887	16,061	75,329	9,523
Ohio						
Public						
Cleveland State U.	71,451	1,262 i	47,402	1,115 i	24,049	147 i
Kent State U.	50,408	851	15,179	851	35,229	0
Miami U.	25,138	152	9,412	151	15,726	1
Ohio State U.	1,236,111	71,269	559,797	31,501	676,314	39,768
Ohio U.	49,764	85	19,164	59	30,600	26
U. Cincinnati	551,826	35,138	309,097	20,403	242,729	14,735
U. Toledo	53,169	1,801	32,601	191	20,568	1,610
Wright State U.	26,259	373	19,617	135	6,642	238
Private						
Case Western Reserve U.	421,868	5,041	340,438	4,799	81,430	242
Oklahoma						
Public						
Oklahoma State U., Center for Health Sciences	7,758	95	2,304	0	5,454	95
U. Oklahoma, Norman and Health Science Center	380,048	13,143	193,639	13	186,409	13,130
U. Oklahoma, Tulsa	7,185	72	1,267	0	5,918	72
Private						
U. Tulsa	16,449	3	5,876	0	10,573	3
Oregon						
Public						
Oregon Health and Science U.	452,812	58,937	329,016	26,475	123,796	32,462
U. Oregon	139,193	8,095	82,242	8,003	56,951	92
Private						
National U. of Natural Medicine	850	221	523	203	327	18
Pacific U.	4,690	599	2,072	599	2,618	0
Pennsylvania						
Public						
Pennsylvania State U., University Park and Hershey Medical Center	970,544	5,911	622,532	0	348,012	5,911

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Temple U.	299,778	20,257	153,316	2,134	146,462	18,123
U. Pittsburgh, Pittsburgh	1,135,416	19,421	724,993	5,201	410,423	14,220
Private						
Drexel U.	152,752	599	93,517	0	59,235	599
Thomas Jefferson U.	200,393	18,548	109,448	5,855	90,945	12,693
U. Pennsylvania	1,631,950	76,568	792,089	5,672	839,861	70,896
South Carolina						
Public						
Medical U. South Carolina	277,761	41,682	162,394	22,758	115,367	18,924
U. South Carolina, Columbia	215,374	325	97,193	281	118,181	44
Private						
Furman U.	2,431	4	1,028	4	1,403	0
Tennessee						
Public						
East Tennessee State U.	18,449	175	8,358	8	10,091	167
U. Tennessee, Health Science Center	109,562	1,520	56,021	12	53,541	1,508
Private						
Meharry Medical C.	15,840	862	13,784	496	2,056	366
Vanderbilt U. and Vanderbilt U. Medical Center	1,019,273	67,625	586,880	30,359	432,393	37,266
Texas						
Public						
Texas A&M U., College Station and Health Science Center	1,147,720	518	528,057	0	619,663	518
Texas Tech U., Health Sciences Center	41,583	297	12,148	47	29,435	250
Texas Tech U., Health Sciences Center, El Paso	11,360	778	1,831	205	9,529	573
Texas Woman's U.	4,943	71	1,514	37	3,429	34
U. Houston	202,536	1,593	77,489	1,163	125,047	430
U. North Texas, Health Science Center	50,698	489	32,464	488	18,234	1
U. Texas Health Science Center, Houston	308,823	15,975	165,139	6,184	143,684	9,791
U. Texas Health Science Center, San Antonio	219,734	10,444	106,824	2,384	112,910	8,060
U. Texas Health Science Center, Tyler	27,928	975	12,007	956	15,921	19
U. Texas M. D. Anderson Cancer Center	1,124,971	162,953	217,073	3,085	907,898	159,868
U. Texas Medical Branch	185,759	4,379	117,915	2,337	67,844	2,042
U. Texas Rio Grande Valley	58,187	320	13,018	173	45,169	147
U. Texas Southwestern Medical Center	632,134	39,872	257,611	14,550	374,523	25,322

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U. Texas, Arlington	126,477	573	46,946	573	79,531	0
U. Texas, Austin	779,348	2,797	489,827	2,457	289,521	340
U. Texas, El Paso	109,410	1,276	43,930	1,276	65,480	0
Private						
Baylor C. of Medicine	716,976	41,843	365,472	18,457	351,504	23,386
Baylor U.	48,809	941	11,025	941	37,784	0
Rice U.	207,404	1,076	95,648	580	111,756	496
Texas Christian U.	15,336	2,342	4,448	2,342	10,888	0
Utah						
Public						
U. Utah	624,737	31,652	340,434	0	284,303	31,652
Vermont						
Public						
U. Vermont	195,320	7,158	103,554	5,148	91,766	2,010
Virginia						
Public						
Eastern Virginia Medical School	19,415	3,353	14,774	1,425	4,641	1,928
Old Dominion U.	62,332	377	25,514	377	36,818	0
U. Virginia, Charlottesville	611,313	8,728	297,273	593	314,040	8,135
Virginia Commonwealth U.	364,096	3,136	160,995	534	203,101	2,602
Virginia Polytechnic Institute and State U.	542,045	5,736	216,733	5,611	325,312	125
Washington						
Public						
U. Washington, Seattle	1,488,645	50,227	1,046,377	22,273	442,268	27,954
Washington State U.	357,648	3,967	179,536	3,967	178,112	0
West Virginia						
Public						
Marshall U.	23,620	7	12,854	0	10,766	7
West Virginia U.	199,907	2,605	89,802	482	110,105	2,123
Wisconsin						
Public						
U. Wisconsin-Madison	1,380,075	16,111	646,764	1,302	733,311	14,809
Private						
Marquette U.	37,087	1,636	13,918	1,403	23,169	233

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Medical C. Wisconsin	276,850	16,229	136,385	786	140,465	15,443
Puerto Rico						
Public						
U. Puerto Rico, Medical Sciences Campus	44,111	2,443	33,262	1,776	10,849	667
Private						
Ponce Health Sciences U.	23,297	5,891	18,284	4,345	5,013	1,546

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 2021.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2021.