

TABLE 72

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2020

(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	618,226	54,620	400,110	18,793	218,116	35,827
U. South Alabama	51,102	715	21,825	67	29,277	648
Arizona						
Public						
Northern Arizona U.	64,456	1,275	39,387	1,074	25,069	201
U. Arizona	760,975	12,224	328,807	613	432,168	11,611
Arkansas						
Public						
U. Arkansas for Medical Sciences	174,549	3,030	70,508	76	104,041	2,954
California						
Public						
California Polytechnic State U., San Luis Obispo	26,605	901	10,178	764	16,427	137
California State U., San Marcos	13,250	179	11,547	179	1,703	0
San Francisco State U.	33,078	76	16,331	76	16,747	0
U. California, Berkeley	840,000	248	349,989	0	490,011	248
U. California, Davis	816,693	17,013	380,965	2,888	435,728	14,125
U. California, Irvine	490,597	18,635	241,734	4,418	248,863	14,217
U. California, Los Angeles	1,392,941	110,979	655,030	67,812	737,911	43,167
U. California, Riverside	184,894	15	92,503	0	92,391	15
U. California, San Diego	1,403,735	5,441	727,289	993	676,446	4,448
U. California, San Francisco	1,651,073	55,536	676,331	23,476	974,742	32,060
Private						
Stanford U.	1,203,950	125,708	751,414	48,423	452,536	77,285
Touro U.	3,551	798	1,558	745	1,993	53
U. Southern California	941,198	265,431	562,120	200,972	379,078	64,459
Western U. of Health Sciences	5,899	215	4,486	0	1,413	215
Colorado						
Public						
U. Colorado Denver and Anschutz Medical Campus	554,643	49,978	348,724	3,221	205,919	46,757
Private						
U. Denver	41,349	168	24,753	168	16,596	0
Connecticut						
Public						
Southern Connecticut State U.	5,413	23	1,026	23	4,387	0
U. Connecticut	280,131	8,381	164,848	6,128	115,283	2,253
Private						
Yale U.	1,094,135	39,349	585,170	0	508,965	39,349
Delaware						
Public						
U. Delaware	220,445	3,221	144,142	3,213	76,303	8
District of Columbia						
Private						
George Washington U.	270,369	13,767	157,533	11,177	112,836	2,590
Georgetown U.	258,659	15,912	98,682	41	159,977	15,871
Howard U.	44,933	523	29,256	28	15,677	495

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Florida						
Public						
Florida Atlantic U.	53,845	398	23,695	0	30,150	398
Florida International U.	236,842	10,136	103,366	8,683	133,476	1,453
Florida State U.	350,430	9,542	162,296	9,154	188,134	388
U. Central Florida	239,343	3,424	114,575	3,342	124,768	82
U. Florida	942,223	45,022	397,202	13,118	545,021	31,904
U. South Florida, Tampa	333,344	13,490	158,958	9	174,386	13,481
U. West Florida	40,051	30	12,369	0	27,682	30
Private						
Nova Southeastern U.	26,035	82	10,452	0	15,583	82
U. Miami	381,410	36,184	224,184	4,878	157,226	31,306
Georgia						
Public						
Augusta U.	103,961	3,594	55,797	9	48,164	3,585
U. Georgia	482,786	944	171,351	783	311,435	161
Private						
Emory U.	808,792	53,946	452,636	7,269	356,156	46,677
Mercer U.	49,116	609	31,572	164	17,544	445
Morehouse School of Medicine	29,813	2	22,500	0	7,313	2
Hawaii						
Public						
U. Hawaii, Manoa	275,929	310	163,694	137	112,235	173
Illinois						
Public						
Southern Illinois U., Carbondale	41,617	1,429	12,735	4	28,882	1,425
U. Illinois, Chicago	412,147	12,174	223,030	7,612	189,117	4,562
U. Illinois, Urbana-Champaign	689,176	173	387,853	173	301,323	0
Private						
Loyola U., Chicago	39,365	3,486	24,018	550	15,347	2,936
Midwestern U.	10,479	27	936	2	9,543	25
Northwestern U.	874,671	56,872	531,654	19,147	343,017	37,725
Rosalind Franklin U. of Medicine and Science	14,601	51	8,504	9	6,097	42
Rush U.	94,438	13,611	65,343	1,692	29,095	11,919
U. Chicago	458,891	28,057	352,447	276	106,444	27,781
Indiana						
Public						
Ball State U.	9,429	308	2,397	308	7,032	0
Indiana U., Bloomington	728,554	47,210	343,876	18,888	384,678	28,322
Indiana U.-Purdue U., Indianapolis	71,387	4,171	31,622	3,040	39,765	1,131
Iowa						
Public						
U. Iowa	538,583	17,586	259,639	0	278,944	17,586
Private						
Des Moines U.	5,021	4	449	0	4,572	4
Palmer C. of Chiropractic, Davenport	1,900	1,600	1,400	1,100	500	500
Kansas						

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Public						
U. Kansas	368,811	21,561	185,007	1,667	183,804	19,894
Kentucky						
Public						
U. Kentucky	417,674	6,378	200,664	540	217,010	5,838
U. Louisville	198,818	7,207	88,251	832	110,567	6,375
Louisiana						
Public						
Louisiana State U., Baton Rouge	286,733	13,073	87,895	9,293	198,838	3,780
Louisiana State U., Health Sciences Center, New Orleans	43,419	562	31,381	0	12,038	562
Louisiana State U., Health Sciences Center, Shreveport	25,321	156	11,452	1	13,869	155
Private						
Tulane U.	204,430	5,245	107,290	139	97,140	5,106
Maine						
Private						
Bowdoin C.	2,719	18	1,862	0	857	18
U. New England	6,886	125	5,064	125	1,822	0
Maryland						
Public						
Towson U.	3,612	31	2,010	31	1,602	0
U. Maryland ^a	1,103,062	28,779	689,125	1,807	413,937	26,972
Private						
Johns Hopkins U. ^b	3,110,494	48,241	2,682,410	487	428,084	47,754
Massachusetts						
Public						
U. Massachusetts, Medical School	279,096	5,219	192,938	285	86,158	4,934
Private						
Boston C.	63,063	746	31,038	746	32,025	0
Boston U.	583,267	2,451	339,172	55	244,095	2,396
Harvard U.	1,239,983	44,622	605,603	38,716	634,380	5,906
New England C. of Optometry	1,150	502	785	146	365	356
Tufts U.	216,241	3,157	148,320	1,274	67,921	1,883
Michigan						
Public						
Central Michigan U.	17,448	193	7,450	164	9,998	29
Grand Valley State U.	6,792	674	1,831	674	4,961	0
Michigan State U.	713,197	6,316	329,748	5,027	383,449	1,289
Michigan Technological U.	77,927	213	36,172	166	41,755	47
U. Michigan, Ann Arbor	1,673,862	31,192	884,880	3,148	788,982	28,044
U. Michigan, Flint	1,247	105	276	105	971	0
Wayne State U.	243,259	18,248	113,137	417	130,122	17,831
Western Michigan U. and Homer Stryker M.D. School of Medicine	24,541	455	13,187	1	11,354	454
Minnesota						
Public						
U. Minnesota, Twin Cities	1,042,382	43,756	514,092	23,313	528,290	20,443
Mississippi						

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Public						
U. Mississippi	122,960	5,191	82,361	4,520	40,599	671
U. Southern Mississippi	72,322	2	42,870	2	29,452	0
Missouri						
Public						
U. Missouri, Columbia	332,180	2,436	156,190	207	175,990	2,229
U. Missouri, Kansas City	36,356	106	22,320	0	14,036	106
Private						
Saint Louis U.	69,528	2,833	34,419	524	35,109	2,309
Washington U., Saint Louis	920,215	32,706	559,882	11,011	360,333	21,695
Montana						
Public						
Montana State U., Bozeman	166,285	1,210	93,759	1,065	72,526	145
Nebraska						
Public						
U. Nebraska, Kearney	2,640	322	1,259	316	1,381	6
U. Nebraska, Lincoln	320,463	1,382	107,299	1,289	213,164	93
U. Nebraska, Medical Center	202,406	14,335	105,158	6,612	97,248	7,723
Private						
Creighton U.	20,339	1,058	7,583	303	12,756	755
Nevada						
Public						
U. Nevada, Reno	159,790	165	64,793	165	94,997	0
New Hampshire						
Private						
Dartmouth C. and Dartmouth Hitchcock Medical Center	326,349	14,253	142,219	10,328	184,130	3,925
New Jersey						
Public						
Rowan U.	26,018	4	15,551	0	10,467	4
Rutgers, State U. New Jersey, New Brunswick	688,077	12,456	311,743	1,637	376,334	10,819
New Mexico						
Public						
U. New Mexico	243,375	6,866	161,627	2,998	81,748	3,868
New York						
Public						
SUNY, C. of Optometry	3,477	1,165	1,688	0	1,789	1,165
SUNY, Downstate Medical Center	33,204	104	26,454	9	6,750	95
SUNY, Stony Brook U.	263,470	4,673	146,478	2,385	116,992	2,288
SUNY, U. Buffalo	422,038	9,355	200,155	1,457	221,883	7,898
SUNY, Upstate Medical U.	41,557	3,566	23,940	172	17,617	3,394
Private						
Albany Medical C.	23,510	2,852	12,940	31	10,570	2,821
Albert Einstein C. of Medicine	288,654	161	204,635	161	84,019	0
Columbia U. in the City of New York	1,032,909	84,409	762,289	33,246	270,620	51,163
Cornell U.	1,190,063	24,809	562,021	9,536	628,042	15,273
Icahn School of Medicine at Mount Sinai	747,014	85,310	480,452	34,463	266,562	50,847
New York Medical C.	20,137	2,169	12,106	988	8,031	1,181

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New York U.	947,293	30,453	448,850	3,896	498,443	26,557
Rockefeller U.	356,217	201	86,280	24	269,937	177
Syracuse U.	149,652	381	31,861	381	117,791	0
U. Rochester	397,211	33,222	296,241	6,362	100,970	26,860
North Carolina						
Public						
East Carolina U.	57,820	3,233	20,168	751	37,652	2,482
U. North Carolina, Chapel Hill	1,159,725	44,788	706,145	6,262	453,580	38,526
U. North Carolina, Greensboro	28,966	1,249	20,447	1,244	8,519	5
Private						
Duke U.	1,196,638	585,747	707,746	350,563	488,892	235,184
Wake Forest U.	244,643	20,390	166,596	10,598	78,047	9,792
North Dakota						
Public						
North Dakota State U.	155,645	2	31,614	1	124,031	1
Ohio						
Public						
Cleveland State U.	78,189	1,213	53,756	1,000	24,433	213
Kent State U.	50,307	1,049	15,004	1,045	35,303	4
Miami U.	24,489	414	10,473	414	14,016	0
Ohio State U.	968,260	60,938	539,359	22,994	428,901	37,944
Ohio U.	51,914	253	15,543	174	36,371	79
U. Cincinnati	530,138	31,900	285,899	16,071	244,239	15,829
U. Toledo	54,100	1,851	27,770	88	26,330	1,763
Wright State U.	49,825	468	35,321	52	14,504	416
Private						
Case Western Reserve U.	439,778	3,854	357,589	3,471	82,189	383
Oklahoma						
Public						
Oklahoma State U., Center for Health Sciences	8,378	2	2,618	0	5,760	2
U. Oklahoma, Norman and Health Science Center	362,209	11,271	183,728	9	178,481	11,262
U. Oklahoma, Tulsa	7,483	51	1,953	0	5,530	51
Private						
U. Tulsa	18,787	40	4,697	0	14,090	40
Oregon						
Public						
Oregon Health and Science U.	446,890	54,694	321,572	21,587	125,318	33,107
U. Oregon	114,259	6,287	81,278	6,269	32,981	18
Private						
National U. of Natural Medicine	1,428	404	912	368	516	36
Pacific U.	5,842	84	2,596	84	3,246	0
Pennsylvania						
Public						
Pennsylvania State U., University Park and Hershey Medical Center	991,923	8,256	638,930	935	352,993	7,321
Temple U.	299,707	17,280	154,600	1,634	145,107	15,646
U. Pittsburgh, Pittsburgh	1,105,532	17,681	689,273	2,160	416,259	15,521
Private						

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Drexel U.	143,123	1,202	82,576	242	60,547	960
Thomas Jefferson U.	171,377	19,536	74,676	4,449	96,701	15,087
U. Pennsylvania	1,579,364	76,144	721,308	6,745	858,056	69,399
South Carolina						
Public						
Medical U. South Carolina	272,590	39,434	153,802	21,912	118,788	17,522
U. South Carolina, Columbia	219,464	95	97,143	2	122,321	93
Tennessee						
Public						
East Tennessee State U.	13,925	1,864	7,329	1,503	6,596	361
U. Tennessee, Chattanooga	10,834	1	3,915	0	6,919	1
U. Tennessee, Health Science Center	99,716	1,851	48,264	49	51,452	1,802
Private						
Meharry Medical C.	13,870	241	12,573	77	1,297	164
Vanderbilt U. and Vanderbilt U. Medical Center	824,803	64,093	514,299	26,319	310,504	37,774
Texas						
Public						
Texas A&M U., College Station and Health Science Center	1,130,803	303	517,489	0	613,314	303
Texas A&M U.-Kingsville	22,745	25	9,610	25	13,135	0
Texas Tech U., Health Sciences Center	44,135	218	13,043	17	31,092	201
Texas Tech U., Health Sciences Center, El Paso	10,421	609	1,703	113	8,718	496
Texas Woman's U.	4,135	245	1,700	217	2,435	28
U. Houston	200,428	1,200	71,779	455	128,649	745
U. North Texas, Health Science Center	47,392	74	25,917	0	21,475	74
U. Texas Health Science Center, Houston	273,862	15,757	133,624	5,690	140,238	10,067
U. Texas Health Science Center, San Antonio	202,572	7,396	102,959	825	99,613	6,571
U. Texas M. D. Anderson Cancer Center	1,051,297	153,496	186,488	3,195	864,809	150,301
U. Texas Medical Branch	180,595	4,176	114,103	1,394	66,492	2,782
U. Texas Southwestern Medical Center	595,939	39,992	242,679	13,462	353,260	26,530
U. Texas, Arlington	133,793	465	44,950	465	88,843	0
U. Texas, Austin	797,199	5,549	500,409	5,259	296,790	290
U. Texas, El Paso	108,628	902	39,126	902	69,502	0
Private						
Baylor C. of Medicine	685,641	32,289	315,101	12,542	370,540	19,747
Baylor U.	39,765	740	8,851	740	30,914	0
Rice U.	198,681	1,234	88,768	654	109,913	580
Texas Christian U.	15,326	797	3,168	797	12,158	0
Utah						
Public						
U. Utah	607,061	30,470	314,023	0	293,038	30,470
Vermont						
Public						
U. Vermont	191,147	5,846	97,981	5,261	93,166	585
Private						
Saint Michael's C.	957	106	775	106	182	0
Virginia						
Public						

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Eastern Virginia Medical School	20,870	2,814	15,748	1,092	5,122	1,722
Old Dominion U.	65,704	127	30,330	127	35,374	0
U. Virginia, Charlottesville	652,002	6,725	300,348	364	351,654	6,361
Virginia Commonwealth U.	283,874	2,800	152,751	169	131,123	2,631
Virginia Polytechnic Institute and State U.	556,341	6,740	210,792	6,556	345,549	184
Washington						
Public						
U. Washington, Seattle	1,456,902	43,316	1,024,195	16,594	432,707	26,722
Washington State U.	335,201	929	154,623	841	180,578	88
West Virginia						
Public						
Marshall U.	22,250	65	11,078	0	11,172	65
West Virginia U.	188,452	3,305	79,657	188	108,795	3,117
Wisconsin						
Public						
U. Wisconsin-Madison	1,363,931	15,351	632,558	855	731,373	14,496
Private						
Marquette U.	37,136	1,475	13,187	1,281	23,949	194
Medical C. Wisconsin	264,325	16,712	128,783	514	135,542	16,198
Puerto Rico						
Public						
U. Puerto Rico, Medical Sciences Campus	37,217	2,853	27,033	2,084	10,184	769
Private						
Ponce Health Sciences U.	13,566	1,760	11,228	0	2,338	1,760

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 2020.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.