

TABLE 71

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2019

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Alabama		
Public		
U. Alabama, Birmingham	607,863	412,678
U. South Alabama	52,540	13,399
Arizona		
Public		
U. Arizona	734,270	208,510
Arkansas		
Public		
U. Arkansas for Medical Sciences	153,135	153,134
California		
Public		
U. California, Davis	804,282	198,945
U. California, Irvine	448,967	153,138
U. California, Los Angeles	1,306,376	805,411
U. California, Riverside	177,655	10,202
U. California, San Diego	1,353,763	506,440
U. California, San Francisco	1,595,098	1,339,907
Private		
Charles R. Drew U. of Medicine and Science ^a	13,739	1,822
Loma Linda U.	24,408	16,633
Stanford U.	1,204,116	761,435
Touro U.	3,543	1,555
U. Southern California	909,683	531,847
Western U. of Health Sciences	4,951	434
Colorado		
Public		
U. Colorado Denver and Anschutz Medical Campus	542,732	375,827
Connecticut		
Public		
U. Connecticut	285,764	92,036
Private		
Yale U.	1,072,309	869,113
District of Columbia		
Private		
George Washington U.	269,799	61,850
Georgetown U.	240,960	148,291
Howard U.	44,163	17,193
Florida		
Public		
Florida Atlantic U.	51,085	7,393
Florida International U.	225,864	12,953
Florida State U.	329,205	29,465
U. Central Florida	225,085	4,115
U. Florida	928,639	405,794
U. South Florida, Tampa	391,325	164,511
Private		
Nova Southeastern U.	24,567	12,357
U. Miami	360,716	276,935
Georgia		

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Public		
Augusta U.	96,502	87,668
Private		
Emory U.	794,928	470,055
Mercer U.	44,128	5,258
Morehouse School of Medicine	31,289	31,289
Hawaii		
Public		
U. Hawaii, Manoa	280,416	32,668
Illinois		
Public		
Southern Illinois U., Carbondale	41,729	20,621
U. Illinois, Chicago	382,949	181,971
U. Illinois, Urbana-Champaign	677,523	2,141
Private		
Loyola U., Chicago	39,223	31,229
Midwestern U.	10,343	6,131
Northwestern U.	857,069	653,530
Rosalind Franklin U. of Medicine and Science	16,126	14,792
Rush U.	96,267	94,083
U. Chicago	459,171	300,253
Indiana		
Public		
Indiana U., Bloomington	668,157	433,941
Iowa		
Public		
U. Iowa	508,353	296,712
Private		
Des Moines U.	1,954	1,079
Kansas		
Public		
U. Kansas	352,643	124,857
Kentucky		
Public		
U. Kentucky	410,581	165,608
U. Louisville	173,462	116,579
Louisiana		
Public		
Louisiana State U., Health Sciences Center, New Orleans	40,914	33,133
Louisiana State U., Health Sciences Center, Shreveport	26,262	26,262
Private		
Tulane U.	196,933	63,012
Maine		
Private		
U. New England	7,346	972
Maryland		
Public		
U. Maryland ^b	1,096,600	449,383
Uniformed Services U. of the Health Sciences	417,300	308,057
Private		

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Johns Hopkins U. ^c	2,917,436	750,501
Massachusetts		
Public		
U. Massachusetts, Medical School	281,507	281,507
Private		
Boston U.	534,205	153,802
Harvard U.	1,239,736	302,095
Tufts U.	213,285	48,980
Michigan		
Public		
Central Michigan U.	17,102	3,170
Michigan State U.	725,708	89,176
Oakland U.	18,002	19
U. Michigan, Ann Arbor	1,675,805	687,203
Wayne State U.	244,217	165,802
Western Michigan U. and Homer Stryker M.D. School of Medicine	25,071	4,314
Minnesota		
Public		
U. Minnesota, Twin Cities	1,013,112	298,083
Mississippi		
Public		
U. Mississippi	158,809	71,850
Missouri		
Public		
U. Missouri, Columbia	278,793	37,676
U. Missouri, Kansas City	26,708	3,962
Private		
A. T. Still U.	644	451
Saint Louis U.	66,103	43,472
Washington U., Saint Louis	887,088	785,036
Nebraska		
Public		
U. Nebraska, Medical Center	194,455	121,301
Private		
Creighton U.	24,039	16,633
Nevada		
Public		
U. Nevada, Las Vegas	99,445	4,458
U. Nevada, Reno	152,128	30,908
New Hampshire		
Private		
Dartmouth C. and Dartmouth Hitchcock Medical Center	342,142	177,974
New Jersey		
Public		
Rowan U.	22,892	9,983
Rutgers, State U. New Jersey, New Brunswick	657,249	295,660
New Mexico		
Public		
U. New Mexico	239,696	96,915
New York		

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Public		
CUNY, City C.	52,738	3,927
SUNY, Downstate Medical Center	36,015	35,635
SUNY, Stony Brook U.	260,813	115,061
SUNY, U. Buffalo	413,817	225,233
SUNY, Upstate Medical U.	38,091	31,685
Private		
Albany Medical C.	23,028	23,028
Albert Einstein C. of Medicine	298,824	298,824
Columbia U. in the City of New York	1,003,615	516,932
Cornell U.	1,144,534	452,969
Hofstra U.	1,744	3
Icahn School of Medicine at Mount Sinai	722,241	722,141
New York Institute of Technology	5,820	3,999
New York Medical C.	19,398	19,398
New York U.	934,720	563,120
U. Rochester	393,960	236,792
North Carolina		
Public		
East Carolina U.	55,611	24,874
U. North Carolina, Chapel Hill	1,153,773	643,302
Private		
Duke U.	1,226,517	967,896
Wake Forest U.	238,933	224,704
North Dakota		
Public		
U. North Dakota	110,836	23,885
Ohio		
Public		
Northeast Ohio Medical U.	18,016	14,919
Ohio State U.	929,250	395,859
Ohio U.	53,735	10,104
U. Cincinnati	529,796	405,372
U. Toledo	55,006	16,684
Wright State U.	64,208	14,105
Private		
Case Western Reserve U.	438,994	351,496
Oklahoma		
Public		
Oklahoma State U., Center for Health Sciences	5,408	5,408
U. Oklahoma, Norman and Health Science Center	302,679	110,697
U. Oklahoma, Tulsa	6,373	2,275
Oregon		
Public		
Oregon Health and Science U.	415,629	254,640
Pennsylvania		
Public		
Pennsylvania State U., University Park and Hershey Medical Center	949,679	97,862
Temple U.	284,301	109,357
U. Pittsburgh, Pittsburgh	1,080,951	801,558

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Private		
Drexel U.	149,481	53,452
Philadelphia C. of Osteopathic Medicine	3,162	794
Thomas Jefferson U.	170,458	164,979
U. Pennsylvania	1,506,285	1,003,146
Rhode Island		
Private		
Brown U.	256,954	121,823
South Carolina		
Public		
Medical U. South Carolina	295,600	228,442
U. South Carolina, Columbia	205,940	13,837
South Dakota		
Public		
U. South Dakota	32,028	9,080
Tennessee		
Public		
East Tennessee State U.	14,197	8,922
U. Tennessee, Health Science Center	96,979	96,979
Private		
Meharry Medical C.	18,286	16,058
Vanderbilt U. and Vanderbilt U. Medical Center	776,937	431,058
Texas		
Public		
Sam Houston State U.	9,445	0
Texas A&M U., College Station and Health Science Center	952,156	51,809
Texas Tech U., Health Sciences Center	44,072	28,260
Texas Tech U., Health Sciences Center, El Paso	11,883	10,010
U. Houston	195,398	5
U. North Texas, Health Science Center	50,124	3,338
U. Texas Health Science Center, Houston	271,525	165,738
U. Texas Health Science Center, San Antonio	188,483	149,006
U. Texas Medical Branch	175,372	169,610
U. Texas Rio Grande Valley	52,016	19,352
U. Texas Southwestern Medical Center	496,697	491,288
U. Texas, Austin	696,111	34,823
Private		
Baylor C. of Medicine	651,920	651,920
U. of the Incarnate Word	1,800	172
Utah		
Public		
U. Utah	601,133	208,277
Vermont		
Public		
U. Vermont	135,859	83,514
Virginia		
Public		
Eastern Virginia Medical School	27,064	27,064
U. Virginia, Charlottesville	613,938	305,023
Virginia Commonwealth U.	255,648	142,345

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Virginia Polytechnic Institute and State U.	541,969	0
Private		
Edward Via C. of Osteopathic Medicine	7,225	7,225
Liberty U.	1,780	378
Washington		
Public		
U. Washington, Seattle	1,425,601	675,929
Washington State U.	369,333	13,377
West Virginia		
Public		
Marshall U.	19,622	10,180
West Virginia U.	187,512	35,006
Wisconsin		
Public		
U. Wisconsin-Madison	1,297,331	456,305
Private		
Medical C. Wisconsin	244,752	244,752
Puerto Rico		
Public		
U. Puerto Rico, Medical Sciences Campus	45,014	17,576
Private		
Ponce Health Sciences U.	11,390	11,390
U. Central del Caribe	3,953	3,953

i = imputed.

^a MD degrees are granted by the University of California, Los Angeles (UCLA) through the Drew/UCLA Medical Education program, a partnership between the Charles R. Drew University of Medicine and Science and the UCLA, David Geffen School of Medicine.

^b 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.

^c Johns Hopkins University includes the Applied Physics Laboratory, with \$1,725,018 thousand in total R&D expenditures in FY 2019.

Note(s):

The source for medical schools is institution response to survey question 4.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2019.