

TABLE 72

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2021

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Alabama		
Public		
U. Alabama, Birmingham	644,330	460,741
U. South Alabama	47,610	23,869
Arizona		
Public		
U. Arizona	770,031	261,081
Arkansas		
Public		
U. Arkansas for Medical Sciences	194,709	194,708
California		
Public		
U. California, Davis	817,409	225,347
U. California, Irvine	523,752	182,213
U. California, Los Angeles	1,454,880	936,434
U. California, Riverside	189,600	15,470
U. California, San Diego	1,425,499	574,570
U. California, San Francisco	1,710,036	1,486,618
Private		
Charles R. Drew U. of Medicine and Science ^a	13,228	1,706
Loma Linda U.	14,029	11,962
Stanford U.	1,274,483	874,048
Touro U.	3,489	1,121
U. Southern California	955,565	526,791
Western U. of Health Sciences	6,688	1,128
Colorado		
Public		
U. Colorado Anschutz Medical Campus ^b	562,855	396,106
Connecticut		
Public		
U. Connecticut	302,329	112,221
Private		
Yale U.	1,165,148	964,412
District of Columbia		
Private		
George Washington U.	266,108	61,311
Georgetown U.	279,932	175,749
Howard U.	52,412	18,340
Florida		
Public		
Florida Atlantic U.	58,471	7,629
Florida International U.	246,075	15,978
Florida State U.	328,604	25,944
U. Central Florida	218,596	6,331
U. Florida	959,965	413,416
U. South Florida ^c	405,088	156,108
Private		
Nova Southeastern U.	24,513	11,537
U. Miami	375,841	295,865
Georgia		

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Public		
Augusta U.	116,480	108,454
Private		
Emory U.	852,922	542,947
Mercer U.	51,989	5,639
Morehouse School of Medicine	32,637	32,637
Hawaii		
Public		
U. Hawaii, Manoa	271,768	30,580
Illinois		
Public		
Southern Illinois U., Carbondale	47,210	18,340
U. Illinois, Chicago	429,585	208,133
U. Illinois, Urbana-Champaign	731,268	291
Private		
Loyola U., Chicago	44,036	36,453
Midwestern U.	10,961	5,966
Northwestern U.	913,178	688,103
Rosalind Franklin U. of Medicine and Science	13,805	12,119
Rush U.	107,398	103,591
U. Chicago	497,651	337,673
Indiana		
Public		
Indiana U., Bloomington	695,258	458,446
Iowa		
Public		
U. Iowa	553,876	316,951
Private		
Des Moines U.	5,258 i	756 i
Kansas		
Public		
U. Kansas	385,637	159,256
Kentucky		
Public		
U. Kentucky	429,241	168,976
U. Louisville	200,362	135,711
Louisiana		
Public		
Louisiana State U., Health Sciences Center, New Orleans	44,370	39,299
Louisiana State U., Health Sciences Center, Shreveport	24,600	24,600
Private		
Tulane U.	205,206	78,702
Maine		
Private		
U. New England	6,234	1,246
Maryland		
Public		
U. Maryland ^d	1,142,264	471,849
Uniformed Services U. of the Health Sciences	384,490	293,540
Private		

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Johns Hopkins U. ^e	3,181,385	754,413
Massachusetts		
Public		
U. Massachusetts, Medical School	347,337	347,337
Private		
Boston U.	652,096	193,605
Harvard U.	1,254,008	399,656
Tufts U.	224,956	49,379
Michigan		
Public		
Central Michigan U.	21,726	10,493
Michigan State U.	710,178	85,501
Oakland U.	20,261	47
U. Michigan, Ann Arbor	1,639,645	660,061
Wayne State U.	235,519	158,775
Western Michigan U. and Homer Stryker M.D. School of Medicine	25,314	5,375
Minnesota		
Public		
U. Minnesota, Twin Cities	1,072,961	344,702
Mississippi		
Public		
U. Mississippi	116,175	51,429
Missouri		
Public		
U. Missouri, Columbia	388,779	60,196
U. Missouri, Kansas City	33,855	7,334
Private		
Saint Louis U.	79,005	38,745
Washington U., Saint Louis	989,214	878,809
Nebraska		
Public		
U. Nebraska, Medical Center	200,974	121,542
Private		
Creighton U.	23,251	15,709 ⁱ
Nevada		
Public		
U. Nevada, Las Vegas	101,009	7,516
U. Nevada, Reno	175,386	36,445
New Hampshire		
Private		
Dartmouth C. and Dartmouth Hitchcock Medical Center	330,226	149,441
New Jersey		
Public		
Rowan U.	26,458	10,809
Rutgers, State U. New Jersey, New Brunswick	643,955	315,754
New Mexico		
Public		
U. New Mexico	332,566	189,939
New York		
Public		

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State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
CUNY, City C.	57,361	3,870
SUNY, Downstate Health Sciences U.	34,459	33,555
SUNY, Stony Brook U.	274,516	125,081
SUNY, U. Buffalo	425,349	173,934
SUNY, Upstate Medical U.	44,870	35,677
Private		
Albany Medical C.	22,443	22,443
Albert Einstein C. of Medicine	301,715	301,714
Columbia U. in the City of New York	1,098,570	588,930
Cornell U.	1,183,524	512,076
Hofstra U.	5,545	268
Icahn School of Medicine at Mount Sinai	820,260	820,260
New York Institute of Technology	4,465	2,858
New York Medical C.	18,872	17,098
New York U.	1,063,704	703,546
U. Rochester	409,255	255,944
North Carolina		
Public		
East Carolina U.	51,662	16,284
U. North Carolina, Chapel Hill	1,205,883	700,242
Private		
Duke U.	1,237,686	1,001,689
Wake Forest U.	264,216	250,219
North Dakota		
Public		
U. North Dakota	143,506	26,108
Ohio		
Public		
Northeast Ohio Medical U.	13,853	12,612
Ohio State U.	1,236,111	715,150
Ohio U.	49,764	10,228
U. Cincinnati	551,826	443,667
U. Toledo	53,169	18,512
Wright State U.	26,259	9,192
Private		
Case Western Reserve U.	421,868	347,262
Oklahoma		
Public		
Oklahoma State U., Center for Health Sciences	7,758	7,758
U. Oklahoma, Norman and Health Science Center	380,048	125,288
U. Oklahoma, Tulsa	7,185	2,095
Oregon		
Public		
Oregon Health and Science U.	452,812	266,062
Pennsylvania		
Public		
Pennsylvania State U., University Park and Hershey Medical Center	970,544	127,567
Temple U.	299,778	107,003
U. Pittsburgh, Pittsburgh	1,135,416	833,234
Private		

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State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Drexel U.	152,752	48,776
Philadelphia C. of Osteopathic Medicine	6,186	3,349
Thomas Jefferson U.	200,393	182,868
U. Pennsylvania	1,631,950	1,101,897
Rhode Island		
Private		
Brown U.	276,331	146,373
South Carolina		
Public		
Medical U. South Carolina	277,761	230,972
U. South Carolina, Columbia	215,374	20,076
South Dakota		
Public		
U. South Dakota	27,537	8,732
Tennessee		
Public		
East Tennessee State U.	18,449	9,231
U. Tennessee, Health Science Center	109,562	109,562
Private		
Meharry Medical C.	15,840	13,870
Vanderbilt U. and Vanderbilt U. Medical Center	1,019,273	527,414
Texas		
Public		
Sam Houston State U.	13,315	369
Texas A&M U., College Station and Health Science Center	1,147,720	43,498
Texas Tech U., Health Sciences Center	41,583	26,239
Texas Tech U., Health Sciences Center, El Paso	11,360	9,238
U. Houston	202,536	715
U. North Texas, Health Science Center	50,698	3,809
U. Texas Health Science Center, Houston	308,823	175,096
U. Texas Health Science Center, San Antonio	219,734	174,351
U. Texas Medical Branch	185,759	178,201
U. Texas Rio Grande Valley	58,187	22,814
U. Texas Southwestern Medical Center	632,134	626,614
U. Texas, Austin	779,348	36,493
Private		
Baylor C. of Medicine	716,976	716,976
Texas Christian U.	15,336	51
U. of the Incarnate Word	1,982	585
Utah		
Public		
U. Utah	624,737	217,758
Vermont		
Public		
U. Vermont	195,320	103,813
Virginia		
Public		
Eastern Virginia Medical School	19,415	19,219
U. Virginia, Charlottesville	611,313	312,818
Virginia Commonwealth U.	364,096	193,979

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Virginia Polytechnic Institute and State U.	542,045	0
Private		
Edward Via C. of Osteopathic Medicine	6,629	6,629
Liberty U.	937	206
Washington		
Public		
U. Washington, Seattle	1,488,645	763,365
Washington State U.	357,648	9,470
West Virginia		
Public		
Marshall U.	23,620	14,736
West Virginia School of Osteopathic Medicine	1,255	1,255
West Virginia U.	199,907	52,177
Wisconsin		
Public		
U. Wisconsin-Madison	1,380,075	479,404
Private		
Medical C. Wisconsin	276,850	276,843
Puerto Rico		
Public		
U. Puerto Rico, Medical Sciences Campus	44,111	13,690
Private		
Ponce Health Sciences U.	23,297	20,825
U. Central del Caribe	3,831	3,831

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 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.

^c 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.

^d 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.

^e Johns Hopkins University includes the Applied Physics Laboratory, with \$1,949,752 thousand in total R&D expenditures in FY 2021.

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 2021.