

TABLE 72

**Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2023**

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Alabama		
Public		
U. Alabama, Birmingham	780,479	578,126
U. South Alabama	53,182	22,971
Arizona		
Public		
U. Arizona	955,424	286,547
Arkansas		
Public		
U. Arkansas for Medical Sciences	209,409	209,409
California		
Public		
U. California, Davis	962,399	262,309
U. California, Irvine	609,614	210,482
U. California, Los Angeles	1,721,665	1,089,899
U. California, Riverside	214,802	19,586
U. California, San Diego	1,705,410	782,076
U. California, San Francisco	2,046,539	1,793,321
Private		
Charles R. Drew U. of Medicine and Science <sup>a</sup>	19,551	17,009
Loma Linda U.	22,262	18,203
Stanford U.	1,537,846	1,082,751
Touro U., California	2,877	2,167
U. Southern California	1,154,804	478,590
Western U. of Health Sciences	8,929	1,530
Colorado		
Public		
U. Colorado Anschutz Medical Campus	686,026	518,050
Connecticut		
Public		
U. Connecticut	390,165	120,594
Private		
Yale U.	1,326,807	1,105,515
District of Columbia		
Private		
George Washington U.	360,260	72,692
Georgetown U.	337,006	190,610
Howard U.	84,756	23,290
Florida		
Public		
Florida Atlantic U.	77,593	11,073
Florida International U.	306,434	10,967
Florida State U.	414,463	34,260
U. Central Florida	247,259	7,465
U. Florida	1,250,201	531,066
U. South Florida	461,390	172,122
Private		
Nova Southeastern U.	50,173	18,062
U. Miami	509,951	382,542
Georgia		
Public		

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Augusta U.	139,121	116,467
Private		
Emory U.	1,094,328	700,949
Mercer U.	45,247	5,641
Morehouse School of Medicine	57,125	56,541
Hawaii		
Public		
U. Hawaii, Manoa	313,143	29,536
Illinois		
Public		
Southern Illinois U., Carbondale	58,291	20,248
U. Illinois, Chicago	492,936	216,563
U. Illinois, Urbana-Champaign	821,023	970
Private		
Loyola U., Chicago	52,445	39,526
Midwestern U.	12,725	6,624
Northwestern U.	1,114,269	765,286
Rosalind Franklin U. of Medicine and Science	11,629	10,116
Rush U.	132,394	127,834
U. Chicago	628,302	395,621
Indiana		
Public		
Indiana U., Bloomington	853,056	565,019
Private		
Marian U., Indianapolis	3,009	1,948
Iowa		
Public		
U. Iowa	662,134	353,938
Private		
Des Moines U.	3,932	401
Kansas		
Public		
U. Kansas	466,222	176,715
Kentucky		
Public		
U. Kentucky	504,005	199,428
U. Louisville	220,568	134,861
Louisiana		
Public		
Louisiana State U., Health Sciences Center, New Orleans	68,707	62,462
Louisiana State U., Health Sciences Center, Shreveport	35,624	35,624
Private		
Tulane U.	258,439	103,227
Maine		
Private		
U. New England	6,756	1,984
Maryland		
Public		
U. Maryland <sup>b</sup>	1,385,302	543,571
Uniformed Services U. of the Health Sciences	496,441	392,367
Private		

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Johns Hopkins U. <sup>c</sup>	3,801,585	918,583
Massachusetts		
Public		
U. Massachusetts, Medical School	326,731	326,731
Private		
Boston U.	773,200	224,416
Harvard U.	1,435,218	450,321
Tufts U.	247,276	73,701
Michigan		
Public		
Central Michigan U.	25,363	13,597
Michigan State U.	844,076	116,665
Oakland U.	37,263	996
U. Michigan, Ann Arbor	1,925,875	797,034
Wayne State U.	250,911	168,570
Western Michigan U. and Homer Stryker M.D. School of Medicine	45,157	5,292
Minnesota		
Public		
U. Minnesota, Twin Cities	1,320,183	454,543
Mississippi		
Public		
U. Mississippi	172,176	73,159
Missouri		
Public		
U. Missouri, Columbia	462,435	108,579
U. Missouri, Kansas City	54,565	9,752
Private		
Saint Louis U.	85,921	42,297
Washington U., Saint Louis	1,168,861	1,028,501
Nebraska		
Public		
U. Nebraska, Lincoln and Medical Center <sup>d</sup>	617,372	132,935
Private		
Creighton U.	28,443	20,517
Nevada		
Public		
U. Nevada, Las Vegas	98,751	5,881
U. Nevada, Reno	188,505	35,731
New Hampshire		
Private		
Dartmouth C. and Dartmouth Hitchcock Medical Center	366,856	158,047
New Jersey		
Public		
Rowan U.	47,810	7,400
Rutgers, State U. New Jersey, New Brunswick	831,719	445,828
New Mexico		
Public		
U. New Mexico	316,026	110,512
New York		
Public		
CUNY, City C.	63,159	3,142

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State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
SUNY, Downstate Health Sciences U.	35,600	32,752
SUNY, Stony Brook U.	324,531	137,593
SUNY, U. Buffalo	471,569	190,520
SUNY, Upstate Medical U.	53,219	41,916
Private		
Albany Medical C.	23,259	23,259
Albert Einstein C. of Medicine	336,238	336,238
Columbia U. in the City of New York	1,341,952	693,569
Cornell U.	1,451,971	630,700
Hofstra U.	8,162	667
Icahn School of Medicine at Mount Sinai	972,476	972,476
New York Institute of Technology	5,790	3,461
New York Medical C.	17,113	16,981
New York U.	1,457,424	979,152
Touro U., New York	100,547	340
U. Rochester	481,227	284,296
North Carolina		
Public		
East Carolina U.	67,082	19,023
U. North Carolina, Chapel Hill	1,549,617	854,094
Private		
Duke U.	1,507,996	1,222,339
Wake Forest U.	308,972	284,809
North Dakota		
Public		
U. North Dakota	182,195	33,924
Ohio		
Public		
Northeast Ohio Medical U.	13,116	11,263
Ohio State U.	1,449,188	738,693
Ohio U.	59,877	13,120
U. Cincinnati	698,642	574,269
U. Toledo	67,656	28,303
Wright State U.	26,189	10,289
Private		
Case Western Reserve U.	553,740	439,776
Oklahoma		
Public		
Oklahoma State U., Center for Health Sciences	12,500	12,500
U. Oklahoma, Norman and Health Science Center	436,964	131,160
U. Oklahoma, Tulsa	5,826	1,638
Oregon		
Public		
Oregon Health and Science U.	517,742	297,168
Pennsylvania		
Public		
Pennsylvania State U., University Park and Hershey Medical Center	1,206,793	157,488
Temple U.	292,029	114,653
U. Pittsburgh, Pittsburgh	1,398,078	1,024,601
Private		
Drexel U.	169,583	42,349

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State, institutional control, and institution	All R&D expenditures	Medical school R&D expenditures
Philadelphia C. of Osteopathic Medicine	7,459	2,848
Thomas Jefferson U.	258,345	241,652
U. Pennsylvania	1,953,617	1,367,371
Rhode Island		
Private		
Brown U.	353,591	130,592
South Carolina		
Public		
Medical U. South Carolina	333,826	273,407
U. South Carolina, Columbia	262,207	22,479
South Dakota		
Public		
U. South Dakota	29,855	10,301
Tennessee		
Public		
East Tennessee State U.	42,335	8,012
U. Tennessee, Health Science Center	130,472	127,923
Private		
Lincoln Memorial U.	1,641	1,568
Meharry Medical C.	22,002	16,781
Vanderbilt U. and Vanderbilt U. Medical Center	1,253,156	647,093
Texas		
Public		
Sam Houston State U.	11,760	716
Texas A&M U., College Station and Health Science Center	1,277,814	56,765
Texas Tech U., Health Sciences Center	48,638	31,116
Texas Tech U., Health Sciences Center, El Paso	13,189	10,469
U. Houston	231,942	1,078
U. North Texas, Health Science Center	94,652	3,297
U. Texas Health Science Center, Houston	374,105	215,282
U. Texas Health Science Center, San Antonio	281,078	178,157
U. Texas Medical Branch	233,192	221,745
U. Texas Rio Grande Valley	82,444	31,635
U. Texas Southwestern Medical Center	800,391	771,653
U. Texas, Austin	1,035,838	46,186
Private		
Baylor C. of Medicine	847,305	847,305
Texas Christian U.	24,050	58
U. of the Incarnate Word	2,245	655
Utah		
Public		
U. Utah	723,713	255,695
Vermont		
Public		
U. Vermont	233,806	114,851
Virginia		
Public		
Eastern Virginia Medical School	23,991	23,991
U. Virginia, Charlottesville	714,457	349,744
Virginia Commonwealth U.	479,930	237,050
Virginia Polytechnic Institute and State U.	598,113	0

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Private		
Edward Via C. of Osteopathic Medicine	7,597	7,597
Liberty U.	1,900	468
Washington		
Public		
U. Washington, Seattle	1,734,091	944,324
Washington State U.	378,744	16,026
West Virginia		
Public		
Marshall U.	33,693	15,699
West Virginia School of Osteopathic Medicine	1,459 <sup>i</sup>	1,459 <sup>i</sup>
West Virginia U.	246,173	70,217
Wisconsin		
Public		
U. Wisconsin-Madison	1,731,949	604,469
Private		
Medical C. Wisconsin	346,691	346,691
Puerto Rico		
Public		
U. Puerto Rico, Medical Sciences Campus	61,235	20,123
Private		
U. Central del Caribe	4,878	4,878

i = imputed.

<sup>a</sup> 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.

<sup>b</sup> 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.

<sup>c</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.

<sup>d</sup> The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

**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 2023.