
THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON ACCOUNTABILITY PROFILE

ABOUT UT HEALTH SCIENCE CENTER-HOUSTON

Mission:

The University of Texas Health Science Center at Houston is a comprehensive health science university composed of six schools: medicine, dentistry, nursing, biomedical sciences, public health, and health information sciences; an Institute of Molecular Medicine for the Prevention of Human Diseases; the education and research merger with the Texas Institute for Research and Rehabilitation; and the Harris County Psychiatric Center. UT HSC-Houston's mission is to treat, cure, and prevent disease now and in the future by educating health science professionals; discovering and translating advances in social and biomedical sciences; and modeling the best practices in clinical care.

UT HSC-Houston's achievements include:

- Nineteen medical school faculty designated as a Castle Connolly America's Top Doctors.
- Four programs ranked in the top 20 of U.S. News "America's Best Graduate Schools 2008": nursing (master's); nurse practitioner-geriatric; nursing-anesthesia; and public health.
- One Nobel laureate, two members of the National Academy of Science, three members of the American Academy of Arts and Sciences, five members of the Institute of Medicine, and twelve members of the American Academy of Nursing.
- Ranking in the top 5 for dental and medical degrees and in the top 10 for biology degrees awarded to Hispanics.

Education. Located in the Texas Medical Center, UT HSC-Houston brings together the Dental Branch, the Graduate School of Biomedical Sciences, the Medical School, the School of Public Health, the School of Nursing, and the School of Health Information Sciences to offer 12 graduate, 2 professional, and 2 bachelor degrees in addition to 6 certificate programs to 3,774 students. Almost one thousand students received degrees in 2007 and will become the physicians, dentists, nurses, scientists, and allied health-care professionals of the future.

Patient Care. UT HSC-Houston's physicians and more than 900 medical and dental residents provide care to more than 980,000 patient visits at Medical School Outpatient Clinics and 76,000 patient visits at the Dental Branch Clinics. The UT-Harris County Psychiatric Center provides mental health care to over 5,000 patients annually.

Research. UT HSC-Houston continues to increase its research enterprise with a total of \$192 million in research expenditures in FY 2007. UTHSC-Houston received 199 NIH grants worth more than \$88 million in FY 2006.

STUDENT SUCCESS

Enrollment With 3,774 students enrolled in fall 2007—an 11 percent change over fall 2003—UT Health Science Center-Houston has the largest total enrollment of the UT System health-related institutions. UT HSC-Houston is well on its way to meeting its 2010 *Closing the Gaps* enrollment goal of 4,175. Twenty-one percent of UT HSC-Houston’s students are undergraduates; 46 percent are graduate students in biomedical sciences, nursing, public health, or health information sciences (allied health); and 33 percent are medical and dental students. While the data indicates a significant shift in the mix of students—the proportion of undergraduates has increased by more than 10 points with a nearly equivalent decline in the proportion of master’s students—this may be a bit misleading. The undergraduate count (792) for 2007 includes 340 post-baccalaureate students, most of which are enrolled in UTHSCH’s expanded certificate programs for professionals in health care, public health, and information technology fields. The coursework required for these certificates is at the master’s level.

Medical school enrollments from 2003 to 2007 increased by 7.4 percent to 876. This is the second-highest enrollment of UTHSCH’s peers.

The reputations of programs and of the institution as a whole have aided recruitment. In the 2008 “Academic Ranking of World Universities” by Shanghai Jiao Tong University, UT HSC-Houston ranked 31st in clinical medicine and pharmacy and among the 76-107th in life science.

Student Diversity By law, 90 percent of medical and dental professional students must be from Texas, so all programs are competing for the best qualified students from the same pool. This means the student profile at institutions may change more slowly. The proportion of female professional students declined by more than two points over the five-year period from 2003 to 2007. From 2003, the enrollment of African-American, Hispanic, and Asian-American professional students at UT HSC-Houston has increased by less than one point.

Looking at professional medical students only, enrollment from 2003 to 2007 increased by 7.4 percent to 876. The proportion of female medical students was down 2.7 points to 45 percent which is below the national level of 48.6 percent. The proportion of African-American medical students increased slightly to 4.1 percent (nationally, 7.2%). At 12.6 percent, the proportion of Hispanic medical students was down slightly over 2003 but still well above the national level of 7.6 percent. UTHSCH ranked number seven in the “Top 10 Best Medical Schools for Hispanics” by *Hispanic Business Magazine* in 2007.

Gender and ethnic representation among graduate students at UTHSCH is significantly different than among professional students. In 2007, two-thirds of graduate students were female. The proportion of White students was down more than nine points. The proportion of African-American students increased two points to more than 8 percent. International students saw the biggest increase, with a gain of nine points. International students make up almost a quarter of the graduate student population.

Student Outcomes UT HSC-Houston achieved a 21 percent increase in the total number of degrees conferred. Master’s degrees made up the largest proportion of all degrees conferred (35%) followed by professional degrees (29%) and baccalaureate degrees (21%). Although the number of doctoral degrees awarded increased by more than 30 percent, they made up just 11 percent of total degrees awarded.

Two-thirds of doctoral degrees were awarded to women at UT HSC-Houston.

Professional Students

	Fall	2003	2007
Number		1,140	1,240
% Female		48.2%	46.0%
White		65.3%	63.2%
African-Am.		3.1%	3.9%
Hispanic		12.9%	13.0%
Asian-Am.		15.5%	15.9%
International		1.3%	0.6%

Graduate Students

	Fall	2003	2007
Number		1,919	1,742
% Female		65.0%	65.7%
White		52.6%	43.5%
African-Am.		6.2%	8.2%
Hispanic		11.7%	11.7%
Asian-Am.		11.7%	10.8%
International		14.7%	23.8%

Professional Degrees

	AY	02-03	06-07
Number		244	275
% Female		42.2%	49.1%
White		72.1%	66.9%
African-Am.		3.3%	2.2%
Hispanic		6.1%	13.1%
Asian-Am.		18.4%	16.0%
Native Am.		0.0%	0.4%
International		0.0%	0.4%
Unknown		0.0%	1.1%

Doctoral Degrees

	AY	02-03	06-07
Number		83	108
% Female		60.2%	66.7%
White		42.2%	45.4%
African-Am.		7.2%	5.6%
Hispanic		4.8%	8.3%
Asian-Am.		13.3%	11.1%
Native Am.		0.0%	0.0%
International		32.5%	29.6%
Unknown		0.0%	0.0%

Forty-five percent of degree recipients were White, up three points from 2003. Degrees to Hispanic students also increased by more than three points. The proportion of doctoral degrees to International students declined but was still almost 30 percent. In rankings published in 2007 by *Diverse: Issues in Higher Education*, UTHSCH ranked 14th for master's degrees in health professions awarded to Hispanics and 19th for master's degrees awarded to Hispanics in biology. At the doctoral level, UT HSC-Houston ranked 7th for degrees in biology awarded to Hispanics.

Medical degrees awarded increased by 16 percent (nationally by just 4%). Forty-seven percent of medical degrees were awarded to women in 2006-07, up from 41 percent in 2002-03, and approaching the national average of 49 percent.

UT HSC-Houston conferred more medical degrees to White students than the national average (70% vs. 64%), although a smaller proportion than in 2003. Compared to the 6.7 percent of medical degrees awarded to African-American students nationally, UTHSCH conferred fewer than 2 percent of medical degrees to African-American students; this proportion has not exceeded 5 percent over the last five years. Hispanic students were awarded 12.6 percent of medical degrees in 2007, a five point increase over 2003. UTHSCH ranked 5th for medical degrees and 4th for dental degrees awarded to Hispanics.

At UT HSC-Houston, 59 percent of the fall 2002 master's cohort (261 students), had earned their degree in five or less years, up from 53 percent for the fall 1998 cohort. Fifty-nine percent of the fall 1998 doctoral cohort (120 students) had earned their Ph.D. in ten years or less, up slightly from 58 percent for the fall 1994 cohort.

As another indicator of the effectiveness of an institution's instructional program, UT HSC-Houston's allied health graduates achieved a 100 percent licensure pass rate in 2006. Pass rates for dentistry were 96.7 percent and for medicine were 90.6 percent. UT HSC-Houston's nursing graduates had a 92 percent exam pass rate, slightly higher than the state average of 91 percent. Graduates of the Advanced Practice Nursing Program had a 100 percent licensure pass rate in 2005-06. These are all pass rates of first-time exam takers.

Still another measure of institutional success is student satisfaction. In response to the AAMC "2007 Medical School Graduation Questionnaire," almost 89 percent of UT HSC-Houston graduates in 2007 indicated that they were satisfied with the quality of their education. This is slightly below the rate for all U.S. schools (90.3 percent).

UT HSC-Houston awarded 202 baccalaureate degrees in 2007; 93 percent of those graduates were either employed and/or enrolled in a graduate or professional school in Texas within one year of graduation. This rate has been declining since 2001-02 in part because more graduates are being recruited for jobs or graduate work outside of Texas.

FACULTY, RESEARCH AND TECHNOLOGY TRANSFER

Faculty From fall 2003 to fall 2007, the number of tenured/tenure-track faculty at UT HSC-Houston decreased by 44 (-9.3%). Because of 13 percent increase in faculty in other professional categories, however, there was still a 5 percent increase in total faculty. As part of the UT System initiative to increase the number of tenured/tenure-track faculty in the STEM and health disciplines over the next ten years, UT HSC-Houston plans to recruit more than 120 new tenured/tenure-track faculty between FY 2008 and FY 2010. UTHSCH has the least full-time faculty (all categories) of any of its peers; it also has the least full-time clinical faculty. For full-time basic science faculty, it has the second-lowest number of its eight peers.

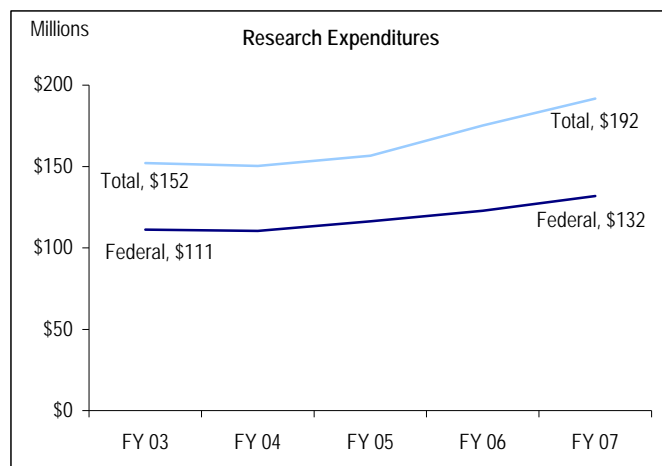
The proportion of female faculty increased by more than seven points in the tenure-track category and declined slightly among tenured faculty. The proportion of Hispanic faculty increased in all categories, making up 6 percent of tenured/tenure-track faculty.

Faculty Headcount			
	Fall	2003	2007
Total		1,261	1,322
Tenured		307	289
% Female		30.0%	28.7%
White		83.4%	83.0%
African-Am.		1.6%	1.7%
Hispanic		2.9%	4.2%
Asian-Am.		12.1%	10.7%
Tenure-Track		167	141
% Female		35.9%	43.3%
White		67.7%	62.4%
African-Am.		3.0%	2.8%
Hispanic		7.8%	9.9%
Asian-Am.		20.4%	22.0%
Native Am.		1.2%	0.7%
International		0.0%	2.1%
Other ProfI		787	892
% Female		45.7%	46.3%
White		68.4%	61.0%
African-Am.		5.8%	5.2%
Hispanic		7.0%	7.6%
Asian-Am.		18.0%	23.0%
Native Am.		0.8%	0.2%
International		0.0%	3.0%

Research In FY 2007, 152 of 399 FTE T/TT faculty (38%) at UT HSC-Houston were principal investigators on 274 extramural grants. Since 2003, the number of grants declined by 38 percent and the proportion of tenured/tenure-track faculty holding grants fell by more than 13 points. Almost 70 percent of FTE non-tenured research faculty held grants, an increase of almost 38 points.

Research expenditures at UT HSC-Houston increased over the past five years despite the decline in numbers of tenured/tenure-track faculty. As a result, the ratio of research expenditures to FTE tenured/tenure-track faculty has increased by 34 percent since FY 2003 to \$480,512, indicating a research active and productive faculty.

UT HSC-Houston's total research expenditures for FY 2007 were almost \$192 million, a 26 percent increase over FY 2003. This total included almost \$132 million in federal research funding, a nearly 19 percent increase over FY 2003.



Although federal dollars remain the largest source of research expenditures for UTHSCH, that proportion has declined from 73.1 percent to 68.8 percent. The \$84 million in NIH grants for FY 2007 made up 64 percent of UT HSC-Houston's federal expenditures (44% of total). UTHSCH's FY 2007 NIH funding is below its FY 2002 levels, despite an 11.5 percent increase in all NIH awards and a 15.3 percent increase in awards to medical schools over that period. Recent declines in the NIH budget make it more difficult to reach the previous level.

In FY 2006, the amount of NIH funding UTHSCH received was the second-lowest of its peers. It had 90 percent of the funding of the next lowest peer (UTMB). Compared to the medical funding only for the peer with the highest total, however, UTHSCH had only 20 percent of the NIH funding of the University of Washington. UT HSC-Houston and two of its peers posted declines in NIH funding from FY 2002 to FY 2006. Peers such as UT Medical Branch, UC-San Diego, and the University of Michigan posted double-digit gains for that period. For the period from FY 2005 to FY 2006, however, UTHSCH showed the largest gain of all of its peers (8.5%). All but two of its peers lost funding during that period.

NIH Funding for UTHSCH Peers

	2002	2005		2006		% change 2002-2006		% change 2005-2006	
		total	medical only	total	medical only	total	total	medical only	
Univ. of Michigan - Ann Arbor	\$325,786,206	\$385,607,466	\$311,667,322	\$390,998,788	\$316,113,770	20.02%	1.40%	1.43%	
UNC - Chapel Hill	\$264,263,425	\$296,566,365	\$271,682,957	\$289,214,216	\$251,857,920	9.44%	-2.48%	-7.30%	
UC-San Diego	\$244,713,718	\$309,416,840	\$238,030,687	\$301,819,829	\$226,916,308	23.34%	-2.46%	-4.67%	
Univ of Washington - Seattle	\$405,729,042	\$462,021,658	\$363,357,043	\$432,428,599	\$344,051,175	6.58%	-6.41%	-5.31%	
Univ of Alabama-Birmingham	\$211,672,387	\$228,687,941	\$219,005,880	\$197,759,768	\$133,200,486	-6.57%	-13.52%	-39.18%	
UT Medical Branch	\$74,503,364	\$115,922,154	\$115,922,154	\$98,272,391	\$98,272,391	31.90%	-15.23%	-15.23%	
UT Southwestern	\$161,988,879	\$170,541,372	\$170,541,372	\$158,691,882	\$158,647,886	-2.04%	-6.95%	-6.97%	
UTHSC-San Antonio	\$74,477,008	\$81,440,359	\$81,440,359	\$81,697,920	\$81,697,920	9.70%	0.32%	0.32%	
UTHSC-Houston	\$90,452,157	\$81,548,352	\$81,548,352	\$88,499,652	\$88,499,652	-2.16%	8.52%	8.52%	

NOTE: medical only for UTHSCH peers includes overall medical and schools of allied health, dentistry, medicine, nursing, and public health

UT HSC-Houston continues to increase its research strength, although compared to peers its rankings are low. It ranked 97th among all universities (67th among public universities) according to the National Science Foundation's listing of total R&D expenditures for FY 2006. UTHSCH ranked 77th for federal R&D. When ranked in the life sciences category, its rankings improved to 64th for

Research Rankings

	FY 2006				FY 2005	
	Total R&D	Federal R&D	Total R&D for Life Sciences	Federal R&D for Life Sciences	by # Postdoc Appointees	by # Grad Students
UC-San Diego	7	10	16	19	9	55
UNC-Chapel Hill	31	21	24	18	19	35
Univ of Alabama-Birmingham	50	27	29	15	69	67
Univ of Michigan (all campuses)	4	3	9	8	21	6
Univ of Washington-Seattle	6	2	6	2	7	10
UT HSC-San Antonio	103	100	74	64	94	322
UT Medical Branch	93	78	61	53	56	208
UT Southwestern	48	51	25	28	38	242
UT HSC-Houston	97	77	64	51	99	138

total and 51st for federal; its position relative to its peers, however, did not change.

Postdocs and graduate students are critical to successful research institutions. UTHSCH ranked 99th in number of postdoctoral appointees; this puts it below all of its peers. In part because it is a stand-alone health institution without an attached academic university, it ranks 138th for the number of graduate students in science, engineering, and health, in the middle third among its peers.

UT HSC-Houston has 404,398 square feet of space for research, not including clinical trials. This is 940 square feet per tenured/tenure-track faculty, 306 square feet each for all faculty ranks, and 232 square feet per graduate student. The institution's faculty, graduate students, and postdocs conduct \$474 of research expenditures (including clinical trials) per square foot of research space.

Technology Transfer UT HSC-Houston's productivity in technology transfer was demonstrated by its doubling of gross revenue from intellectual property from FY 2002 to FY 2006, in part because of a significant increase in licenses and options executed.

Technology Transfer

	FY	2002	2006	% Change
New Invention Disclosures		44	57	29.5%
U.S. Patents Issued		5	4	-20.0%
Licenses & Options Executed		7	34	385.7%
Start-Up Companies Formed		1	1	--
Gross Revenue from IP		\$1.6 M	\$3.3 M	106.4%

UT HSC-Houston has 14 start-up companies in its portfolio. Three of them are publicly traded and two received grants from the state's Emerging Technology Fund. UTHSCH has more than 100 active license/option agreements and 116 products on the market.

Faculty Awards & Honors Faculty at UT HSC-Houston includes one Nobel laureate, two members of the National Academy of Sciences, three members of the American Academy of Arts and Sciences, and five members of the Institute of Medicine. UTHSCH also has 12 members of the American Academy of Nursing, 32 members of the International Association for Dental Research, and 2 members of the American College of Medical Informatics.

In *The Top American Research Universities* rankings published in 2008, UT HSC-Houston had three measures in the top 26-50 of public universities (federal research expenditures, endowment assets, and postdoctoral appointees). The UT HSC-Houston nursing school (master's) ranked in the top 20 of 285 nursing programs according to *U.S. News & World Report's* "America's Best Graduate Programs 2008." The public health, medicine (research), and biomedical sciences were all ranked in the top half.

HEALTH CARE

UTHSCH faculty are on staff at Memorial Hermann-Texas Medical Center, which is a Level I Trauma Center; in the same complex is Children’s Memorial Hermann. Many of the medical school faculty are also on staff at Texas Heart Institute. In collaboration with other area medical schools, UTHSC-H is affiliated with Memorial Hermann | TIRR, one of the nation’s leading medical rehabilitation hospitals. Psychiatric and clinical social services are provided to more than 5,000 patients annually at the UT Harris County Psychiatric Center. Allied with the Harris County Hospital District, UTHSCH faculty also provide comprehensive medical care at Lyndon B. Johnson General Hospital.

Although outpatient visits increased, admissions decreased to the UT Harris County Psychiatric Center, which is the only hospital owned by UTHSCH. This decline in admissions is at least in part attributable to the closure of some beds in the hospital. Hospital days in the affiliated hospitals where UTHSCH faculty practice also declined over the five years from FY 2002 to FY 2006. This decline was one contributing factor to the decline in both patient charges and patient revenues over that same period.

Almost 28 percent of the 5.3 million people—46 percent of the Hispanic population—in the Houston-Sugar Land-Baytown area are uninsured. In FY 2006, UT HSC-Houston had \$186 million in unsponsored charity care charges, an 80 percent increase over FY 2002.

Patient satisfaction at the Harris County Psychiatric Center for September 2006 through July 2007 was 3.87 out of 5. The rating was 3.99 for the previous period. The UTHSCH Dental Branch Clinics receive consistent ratings of 97-98 percent rating excellent of very good. Satisfaction with the UT Physicians Service was 98 percent and 97 percent would recommend to friends and family.

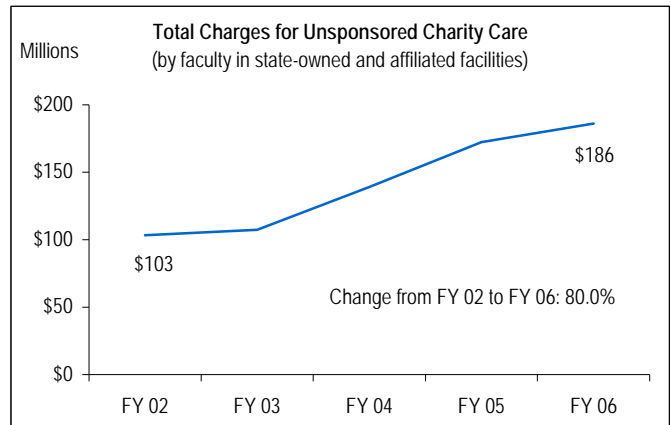
Residents in UT HSC-Houston’s ACGME accredited programs provide a significant portion of health care services. In 2006-07, the campus had 54 resident programs and 780 residents. Residents in the programs are receiving education and experience as medical professionals. At the same time, they are contributing to the health of the community. In terms of number of housestaff (residents and fellows), UTHSCH is in the middle of its peer group.

Eighty-three percent of the students who graduate from the UT HSC-Houston medical school practice in the state. These alumni make up more than 13 percent of the state’s physicians.

Clinical and Hospital Care by UTHSCH Faculty

	FY 02	FY 06	% Change
SO Hospital Admissions	6,135	5,490	-10.5%
SO&A Hospital Days	312,359	298,753	-4.4%
Outpatient Visits in SO&A Facilities	671,891	840,831	25.1%
Charity Care in SO&A Facilities	\$103 M	\$186 M	80.0%
Charity Care at UTHSCH hospitals	\$27 M	\$39 M	44.6%
Gross Patient Charges per FTE Clinical Faculty	\$1,244,127	\$910,245	-26.8%
Net Patient Revenues per FTE Clinical Faculty	\$365,754	\$192,895	-47.3%

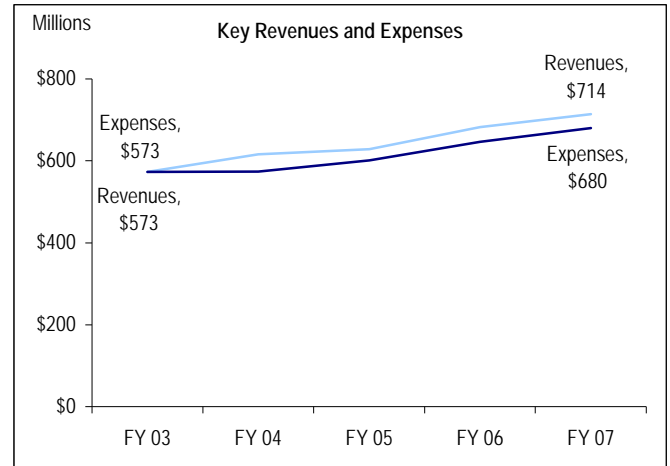
Notes: SO = State-Owned SO&A = State-Owned & Affiliated



RESOURCES, EFFICIENCY, AND PRODUCTIVITY

UT HSC-Houston's revenues have increased by 25 percent since FY 2003. The largest drivers in this trend were the increases in physician fees, sales and services-other, and nongovernment grants and contracts. Sales and services of hospitals declined by \$9.7 million (28%). Total expenses increased by 19 percent during the same time period. The largest increases were seen in instruction (\$44 million) and research (\$37 million). Expenses for hospitals/clinics and for institutional support and physical plant declined.

It has increased efficiency by minimizing administrative costs. Although administrative costs have risen by 21 percent since FY 2003, these costs as a percent of total expenditures have remained relatively steady at around 9.8 percent. This proportion is the highest of the System's health institutions. UTHSCH reduced its energy use by 38 percent since 1997 and by 15 percent since 2002.



Philanthropy Total donor support for FY 2007 was up 27 percent over FY 2003 to almost \$38 million because of significant increases in alumni and individual contributions primarily to the successful IMM New Frontiers Campaign. UTHSC-Houston's total gifts in FY 2007 were 6 percent of the institutions total E&G. Alumni gifts more than doubled, but the alumni participation rate remains low at 1.5 percent (national, 11.9%).

The value of UT HSC-Houston's endowments has increased by 89 percent since FY 2003. As of August 31, 2007, the value of its endowments was \$187 million.

Donor Support (thousands)

	FY	2003	2007	% Change
Alumni		\$114	\$243	113.2%
Individuals		\$2,438	\$5,686	133.2%
Foundations		\$17,625	\$22,974	30.3%
Corporate		\$4,919	\$4,490	-8.7%
Others		\$4,551	\$4,267	-6.2%
Total		\$29,647	\$37,660	27.0%

UT HSC-Houston Peer Comparison

	UT HSC-Houston	UT Southwestern	UT Medical Branch	UT HSC-San Antonio	U of Michigan	U of N. Carolina-Chapel Hill	U. of Washington-Seattle	U of California-San Diego	U of Alabama-Birmingham
Medical School	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dental School	✓			✓	✓	✓	✓		✓
Nursing School	✓		✓	✓	✓	✓	✓		✓
Public Health School	✓				✓	✓	✓		✓
Graduate School of Biomedical Sciences	✓	✓	✓	✓				✓	
Health Informatics (school or program)	✓								
Total Medical School (MD) Enrollment, 2006	848	904	843	827	719	642	810	503	685
Total Housestaff, 2006	816	1,207	520	712	982	732	1,128	699	842
Full-time Faculty, 2006 (all depts/all ranks)	765	1,443	1,003	987	1,562	1,276	1,950	828	1,189
Full-time Clinical Faculty, 2006	665	1,199	861	836	1,415	1,040	1,687	795	1,034
Full-time Basic Science Faculty, 2006	100	244	172	151	147	236	263	33	155

Data Source: AAMC Medical School Profile System