

# Facts 2010–2011

The Cockrell School of Engineering's 267 professorial faculty, 620 staff and more than 1,800 student employees serve more than 7,800 students enrolled in nine undergraduate and 13 graduate degree programs.

## Undergraduate Program Rankings

#11 Overall
#2 Petroleum Engineering
#4 Civil Engineering
#4 Environmental Engineering*
#5 Chemical Engineering
#7 Computer Engineering
#8 Aerospace/Aeronautical Engineering
#9 Mechanical Engineering
#11 Electrical/Electronic Engineering
#13 Biomedical Engineering

## Graduate Program Rankings

#9 Overall
#1 Petroleum Engineering
#3 Civil Engineering
#4 Environmental Engineering
#6 Chemical Engineering
#9 Computer Engineering
#9 Electrical/Electronic Engineering
#10 Aerospace/Aeronautical Engineering
#11 Mechanical Engineering
#16 Biomedical Engineering <i>U.S. News &amp; World Report, 2011</i>

\*Not an official degree program. Courses offered in this area.

## FACULTY QUALITY

Senior faculty constitute the fourth highest membership in the National Academy of Engineering, the nation's highest honor for engineers. Since 2000, 46 junior faculty have received the National Science Foundation's Faculty Early Career Development award, considered the nation's top honor for young faculty.

The Cockrell School ranks eighth nationally among more than 300 engineering schools for the number of Hispanic faculty.

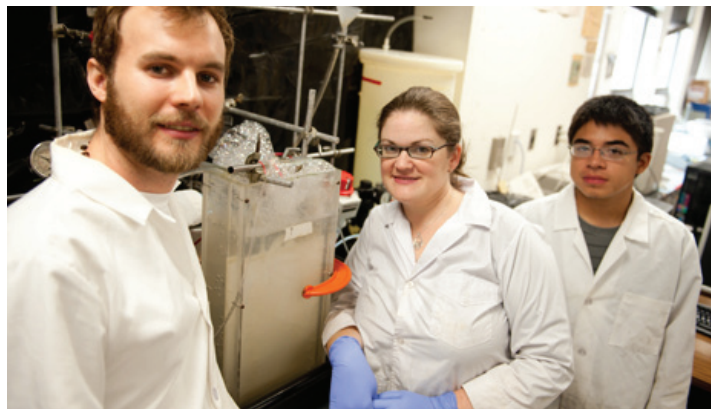
*ASEE Profiles of Engineering & Engineering Technology Colleges, 2009*

## STUDENT QUALITY

Fall 2010 entering freshmen had an average SAT score of 1340. The majority are from the top 10 percent of their graduating class, and 12 percent were valedictorians or salutatorians.

## ENROLLMENT FALL 2010

Undergrad Total: 5,583	Graduate Total: 2,246
Undergrad Men: 78%	Graduate Men: 80%
Undergrad Women: 22%	Graduate Women: 20%
Undergrad Minorities: 20%	Graduate Minorities: 6%



*Environmental and water resources doctoral candidates Lee Blaney (l) and Amanda Van Epps, and undergraduate research assistant Raul Tenorio (r), are pictured here with a grey water reuse research project.*

## SCHOLARSHIPS/FELLOWSHIPS

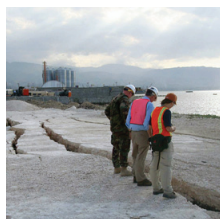
Undergraduates enrolled in the Cockrell School in Fall 2010 received more than 1,400 scholarships, totaling over \$4.7 million. The Cockrell School awarded \$3 million to more than 400 graduate students from endowed fellowships during 2010-2011.

## PRIVATE SUPPORT

The Cockrell School of Engineering has a bold mission: be a top ranked engineering school that attracts the brightest student leaders and visionary faculty; and educate our students in world-class facilities and develop transformative, far-reaching research that improves lives around the globe.

The success of this mission, however, depends on the critical support of private philanthropy. Federal and state funding for science and engineering has been on the decline over the past two decades, making the support from private donors and industry more important now than ever.

At the Cockrell School, state funding covers about 15 percent of the total cost of educating students. The remainder comes from tuition, research support and gifts from industry, alumni and other donors. In 2009-2010, more than 400 corporations provided \$9.2 million; private foundations, \$5 million; and individual donors, \$8.9 million, for a total of more than \$23 million. Friends of Alec donors gave more than \$1.9 million.



**Degrees Awarded, 2009-2010**

Program	Bachelor's	Master's	Doctoral
Aerospace	92	22	7
Architectural	43	11	
Biomedical	80	13	15
Chemical	127	13	27
Civil	99	83	40
Electrical & Computer	208	157	41
Engineering Management		26	
Engineering Mechanics		6	2
Environmental & Water Resources		25	
Geosystems & Hydrogeology	3		
Materials Science & Engineering		1	13
Mechanical	221	57	16
Operations Research & Industrial Engr.		13	6
Petroleum	101	30	6
<b>Total Degrees</b>	<b>974</b>	<b>457</b>	<b>173</b>

**AVERAGE ANNUAL STARTING SALARIES, 2009-2010**

<i>(bachelor's degree recipients, in industry)</i>		Average	\$66,570
Aerospace Engr.	\$58,833	Civil Engr.	\$58,880
Architectural Engr.	\$58,500	Electrical Engr.	\$65,717
Biomedical Engr.	\$59,945	Mechanical Engr.	\$65,072
Chemical Engr.	\$69,790	Petroleum Engr.	\$80,879

**RESEARCH DEVELOPMENTS**

Faculty and students conduct research benefitting society in the areas of human health, sustainability and energy. Recent advancements include:

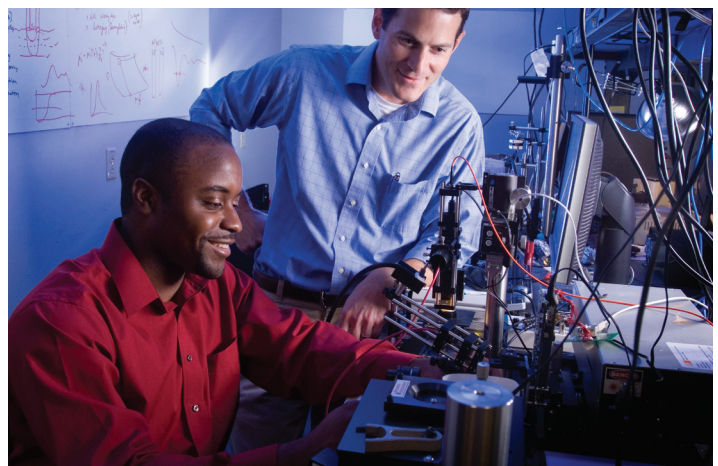
- Mapping hurricane storm surges along the Louisiana, Mississippi and Texas coastlines to determine where damage might occur to local marshes, wetlands and channels following the BP Deepwater Horizon oil rig explosion.
- Using graphene as a way to store electrical charge from renewable energies in ultracapacitor devices.
- Designing biomaterials that enhance an injured nerve's ability to regrow or regenerate and function properly.
- Building a multi-component, injectable formulation that increases the efficacy of vaccines for various cancers, emerging diseases and drug-resistant infections.
- Improving automated software's reliability and extensibility.
- Creating novel computer-aided detection and diagnosis strategies for breast cancer.

**LEADERSHIP DEVELOPMENT**

To prepare students to be well-rounded individuals with sound leadership, communication and team-building skills, the Cockrell School offers multiple development programs such as the Ramshorn Retreats, LeaderShape-Texas and our International Engineering Education programs, which have placed students in more than 15 countries. And with over 70 student groups, there are boundless opportunities for personal and professional growth.

**ADDED DISTINCTIONS**

- The Cockrell School awards a higher percentage of undergraduate degrees to Hispanics and African Americans than other top-ranked programs at public schools of engineering. *ASEE Profiles of Engineering & Engineering Technology Colleges, 2009*
- The Cockrell School has 136 named endowed chairs and professorships for faculty.
- The Cockrell School awards the sixth highest number of undergraduate degrees to women among more than 340 engineering schools. *ASEE Profiles of Engineering & Engineering Technology Colleges, 2009*



*Sheldon Bish, left, a biomedical engineering graduate student, works with James Tunnell, assistant professor in biomedical engineering, to develop innovative ways to detect and treat skin cancer using biomedical optics.*

**STAYING IN TOUCH**

Gregory L. Fenves  
 Dean, Cockrell School of Engineering  
 dean@enr.utexas.edu

Cockrell School of Engineering  
 (512) 471-1166, ut@enr.utexas.edu

Student Affairs, (512) 471-4321  
 Career Assistance Center, (512) 471-1915  
 Engineering Foundation / Alumni, (512) 471-3395  
 Communications / Media Relations (512) 232-8060

[WWW.ENGR.UTEXAS.EDU/CONTACT](http://WWW.ENGR.UTEXAS.EDU/CONTACT)

