

A photograph of two scientists in a laboratory. One scientist, wearing a white lab coat and safety glasses, is holding a small vial and pointing at it. The other scientist, also in a white lab coat and safety glasses, is looking at the vial. The background shows laboratory equipment and a blue light source.

M.S. AND PH.D. IN

CHEMICAL & BIOMOLECULAR ENGINEERING



CHEE.UH.EDU

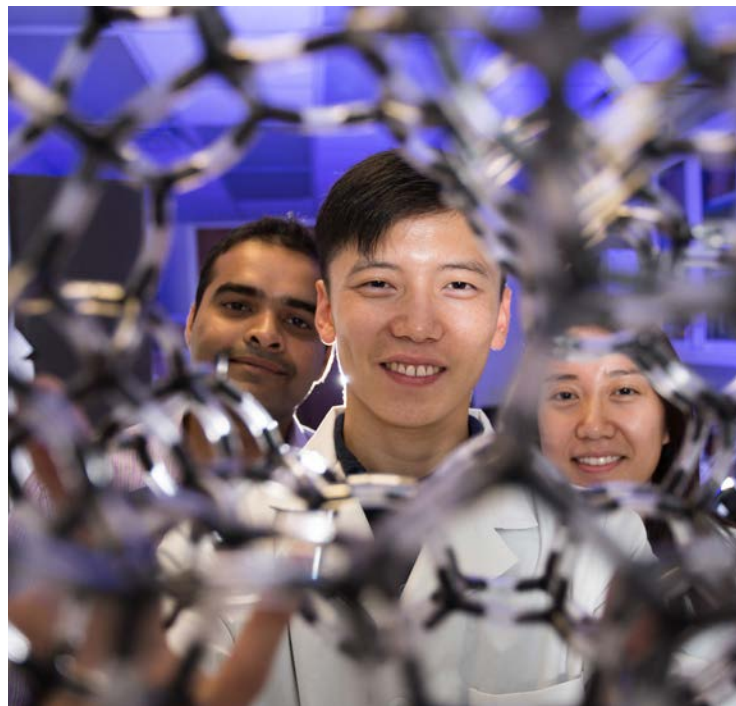
ENGINEERING SUSTAINABLE SOLUTIONS FOR A BETTER WORLD

WHY THE UNIVERSITY OF HOUSTON?

The William A. Brookshire Department of Chemical and Biomolecular Engineering at the University of Houston Cullen College of Engineering is one of the top-ranked chemical engineering programs in the nation. Many graduates of the chemical and biomolecular engineering programs are currently employed in leadership positions in industry, academia and government across the Houston region and around the world. Conveniently located in Houston, widely known as the Energy Capital of the World and a hub of medical expertise, manufacturing and more, students have direct access to internships, fellowships and full-time positions throughout the region and are encouraged to pursue professional opportunities while they are in school.

FINANCIAL ASSISTANCE

All students admitted to our Ph.D. program will receive a competitive base stipend in the form of graduate research or teaching assistantships, access to comprehensive student health insurance, and waived tuition and fees. In addition, we have prestigious fellowships available, including the Presidential Fellowship, the Houston Endowment Fund, and Special Foundation Department Fellowships, which add to the base stipend.



William A. Brookshire
Department of Chemical
and Biomolecular Engineering
Cullen College of Engineering

FACULTY AND RESEARCH INTERESTS

Faculty in the William A. Brookshire Department conduct multidisciplinary, cutting-edge research in biomolecular and biological sciences, catalysis and reactions, engineering education, materials and polymers, plasma processing, process and scientific computing, and transport and separations using state-of-the-art facilities to address societal needs in energy, environment, and health.

The department has a rich history of faculty accomplishments, including memberships in National Academies, prestigious faculty fellowships and awards for research and creative activities, teaching awards, and public service commendations. Our faculty members are world-class researchers and educators engaged in externally-supported, fundamental and applied research at the forefront of modern chemical engineering science. We continuously explore the interfaces between emerging research areas to discover new phenomena and develop new processes and products with high societal impact. Examples range from novel zeolites for catalytic reactions with high efficiency and product selectivity, to protein engineering and bioseparations for cutting-edge therapeutic and diagnostic applications, including those targeting COVID-19.

To view our faculty by research area, please visit:

www.chee.uh.edu/research/faculty

DIVERSITY COMMITMENT

We are a vibrant community of scholars pursuing excellence in teaching and research in a collegial and inclusive environment that respects the diversity of all people and ideas. UH's multicultural and multiracial campus population reflects the diversity of Houston, the US's fourth-largest city with five cultural districts, 145 languages spoken locally, and over 10,000 restaurants with cuisines from over 70 countries. As part of the department's continued commitment to diversity, equity and inclusion, the William A. Brookshire Department has partnered with the American Chemical Society (ACS) to establish a Bridge Site to assist students from underrepresented groups to enroll in doctoral programs in chemical engineering while receiving a full fellowship.

For more information, please visit: <https://bit.ly/z2THdPL>

WHAT TYPES OF GRADUATE DEGREES DO YOU OFFER IN CHEMICAL ENGINEERING?

The UH Cullen College of Engineering offers MChE non-thesis, M.S. course-based and Ph.D. degrees in chemical engineering.



ABOUT US

#33 Best Chemical Engineering Graduate Program in the United States (U.S. News & World Report, 2021)

Top 20 Chemical Engineering Doctoral Program in the United States (National Research Council)

7 NSF CAREER award-winning faculty

Expansive interdisciplinary and collaborative research programs

Recognized for research excellence in biomolecular and biological sciences, catalysis and reactions, engineering education, materials and polymers, plasma processing, process and scientific computing, and transport and separations.

Engineering Centers and Consortia:

Collaborations with industry, both internal to UH and the Cullen College of Engineering, and external research enterprises, are a tenet of our department. Our faculty lead and participate in the following centers and consortia:

- Center for Carbon Management in Energy
- Drug Discovery Institute
- Energy Transition Institute
- Hewlett-Packard Enterprise Data Science Institute
- International Polymers and Soft Matter Consortium (IPSMC)
- Nanofabrication Center
- Texas Center for Clean Engines, Emissions, and Fuels
- Texas Center for Superconductivity
- Texas Medical Center
- Welch Center of Excellence in Polymer Chemistry

FOR MORE INFORMATION

For more information on eligibility and admission requirements, please visit www.chee.uh.edu/graduate/