



TEXAS TECH UNIVERSITY

Department of Chemical Engineering

In Chemical Engineering at Texas Tech, we pride ourselves on a firm commitment to excellence, with Academic Analytics ranking faculty scholarly productivity in the top 50 of ChE departments nationally. Join us for a rewarding research experience which prepares our students for successful careers in industry, academia, and government.

Research Areas:

Biomechanical Engineering and Nanomedicine
Energy, Sustainability, and Electrochemical Engineering
Soft Matter, Nanotechnology, Computational Modeling and Data Science

Contact Information:

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Gerardine Botte (Department Chair)

Ph.D., University of South Carolina
Electrochemical Engineering, energy conversion and storage, electrocatalysis



Joseph Gauthier

Ph.D., Stanford University
Heterogenous catalysis, electrocatalysis, machine learning, sustainable energy



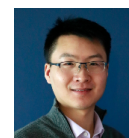
Joshua Howe

Ph.D., University of California, Berkeley
Electric structure and classical atomistic material simulations



Rajesh Khare (Assistant Dean)

Ph.D., University of Delaware
Molecular simulations, complex fluids rheology, separations, nanocomposites



Qiugang (Jay) Lu

Ph.D., University of British Columbia
Process data analytics, fault detection, data-driven modeling, model-predictive control



Jeremy Marston

Ph.D., University of Birmingham
Experimental fluid dynamics, granular media high-speed imaging



Siva A. Vanapalli

Ph.D., University of Michigan
Microfluidics, mechanics of cells and biopolymers, colloidal assembly



Brandon L. Weeks (Associate Dean)

Ph.D., Cambridge University
High explosives, nanolithography, microcantilever, crystal growth



Chau-Chyun Chen

Ph.D., Massachusetts Institute of Technology
Molecular thermodynamics, phase equilibria, process modeling and simulation



Harvinder Singh Gill

Ph.D., Georgia Institute of Technology
Drug and vaccine delivery, bionanomaterials, immunomodulation



Sheima Jatib-Khatib

Ph.D., University of Madrid
Heterogeneous catalysis, operando spectroscopy, membrane reactors



Wei Li

Ph.D., University of Toronto
Cell/polymer interactions, cell microenvironments, biomedical devices



Mahdi Malmali

Ph.D., University of Arkansas
Reaction and separation processes, membrane-based separation, water recycle and reuse



Al Sacco, Jr. (Dean)

Ph.D., Massachusetts Institute of Technology
Transition metal and acid catalysts, zeolite synthesis



Mark W. Vaughn

Ph.D., Texas A & M University
Nitric oxide in microcirculation, membrane transport



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