

**ILLINOIS TECH**

Chemical and  
Biological Engineering

Members of Illinois Tech's student chapter of the American Institute of Chemical Engineers and Graduate Student Association with faculty adviser, Professor Donald J. Chmielewski



# ILLINOIS TECH'S DEPARTMENT OF CHEMICAL AND BIOLOGICAL ENGINEERING

**CHBE at Illinois Tech** is one of the oldest chemical engineering programs in the country—and among the most innovative. Part of Chicago's only tech-focused university, we continue to strengthen our programs and research areas to offer our students:

- **Rigorous academic and research programs in areas of significant relevance to society and industry**
- **Graduate research opportunities that strive to meet the present and future needs of cities and communities across the globe**
- **Internationally recognized faculty and state-of-the-art facilities just minutes from downtown Chicago**

## WHERE BOLD IDEAS COME TO LIFE

Illinois Tech groups the diverse research of our CHBE faculty into four focus areas:

### Advanced Materials

Particle Technology  
Fluidization  
Transport and Interfacial Phenomena

### Biological Engineering

Biomaterials  
Biosensors  
Tissue Engineering  
Bioinformatics  
Molecular Modeling of Proteins  
Diabetes  
Bio-derived Energy  
Bioremediation  
Fermentation

### Energy and Sustainability

Fuel Cells  
Batteries  
Renewable Energy  
Gas Cleaning  
Hydrogen Storage  
Water Management

### Systems Engineering

Process Modeling/Monitoring and Control  
Process System Integration  
Complex Systems  
System Theory  
Nonlinear Dynamics

## COLLABORATE WITH FACULTY EXPERTS

Javad Abbasian  
Hamid Arastoopour  
Mohammad Asadi  
Donald J. Chmielewski  
Ali Cinar  
Dimitri Gidaspow  
Seok Hoon Hong  
Peter Kilpatrick, Provost  
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