Undergraduate Research

Undergraduate students in the Department of Chemical and Biological Engineering have the opportunity to participate in a variety of research programs led by our dynamic faculty in modern facilities. Students gain hands-on experience in research outside of the classroom environment. Students with laboratory experience are better prepared for graduate studies and better equipped to decide what they want to do after graduation. Our students go on to begin graduate study in chemical engineering, medicine, or work in industries from pharmaceuticals to energy.

Learn More

To learn more about our programs, contact Professor Cameron Abrams, Department Head, at cfa22@drexel.edu or Andrea Falcone, Director of Undergraduate Affairs, at amf369@drexel.edu.

Some of the current research projects are in areas such as:

- Drug Delivery
- Solar Cells
- Polymer and Composites
- Renewable Energy
- Nanotechnology
- Fuel Cells
- Biosensors
- Molecular Simulations
- Biological Colloids

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Undergraduate Research
Here’s what two of our students had to say about their experiences conducting research as an undergraduate in our department...

Anthony Abel
BS/MS
Nanomaterials for Energy Applications and Technology (NEAT) Laboratory

“During my first summer at Drexel, I participated in the STAR program, which allowed me to begin studying iron oxide for solar water splitting in Dr. Jason Baxter’s group. This research has since grown into a published project, and led directly to two research co-ops in industry. Further, I have developed professional relationships with the graduate students in my lab and my professors, which has helped me succeed in classes and given me the opportunity to travel to academic conferences. These experiences have shown me all the different types of research available to chemical engineers, and driven me to pursue a Ph.D. after graduating from Drexel.”

Anjali Patel
BS
Nanomaterials for Energy Applications and Technology (NEAT) Laboratory

“Undergraduate research has been an extremely beneficial experience that has enriched my education and also helped inspire my career plans. I began studying copper oxide solar cells in Prof. Baxter’s group as a freshman, and I’ve continued with photoelectrochemical (PEC) water splitting research ever since. My experience in this research has allowed me to build important technical skills and learn to effectively communicate scientific findings. Through my involvement in research, I’ve also developed a keen interest in solar energy research that I plan to pursue by attending graduate school for a Ph.D. after graduating from Drexel.”