



ENGINEERING A SUSTAINABLE FUTURE

MATERIALS SYSTEMS FOR
SUSTAINABILITY AND HEALTH

SOLVE THE PLANET'S GREATEST CHALLENGES

Each day, new challenges arise that require sustainable solutions for humanity. The Pritzker School of Molecular Engineering at the University of Chicago is dedicated to finding these solutions through our PhD in Molecular Engineering with a focus on Materials Systems for Sustainability and Health.

By joining our materials scientists in researching sustainable applications for water, energy, natural resources, and healthcare, you can help benefit the world for generations to come. >>

“The interdisciplinary culture and collaborative environment at PME are not found elsewhere. And they are the key reason students are exposed to diverse projects and why these projects can be carried out efficiently.”

Chuting Deng

Fifth-year PhD student in Materials

CUTTING-EDGE RESEARCH

Our unique PhD program forgoes traditional disciplines in favor of a more collaborative and creative approach. You'll learn alongside internationally recognized researchers from both the University of Chicago and Argonne National Laboratory. Together, you'll explore polymers, self-assembled and autonomous materials, dynamic covalent materials, nanoparticles, liquid crystals, and composite, hybrid materials. PME research in MSH covers synthesis, characterization, processing, computational modeling as well as Artificial Intelligence/Machine Learning.

LIFE-ALTERING DISCOVERY

The PhD program puts you in a position to conduct research that can truly change lives. Help solve freshwater crises in developing countries through projects involving materials for water purification or extracting elements from sea- and wastewater. Contribute to treatments for diseases such as dementia and ALS through research into protein misfolding or nanoparticle-based delivery of nucleic acids. Make energy more affordable by studying new battery materials, organic thermo-electric materials, and the assembly of ion-containing polymers. Here, the only limit is your imagination.

ENGINEER YOUR FUTURE

ELEVATE YOUR EDUCATION IN SUSTAINABILITY BY VISITING [PME.UCHICAGO.EDU/APPLY](https://pme.uchicago.edu/apply)

