

GRADUATE DEGREE PROGRAMS

MECHANICAL ENGINEERING & MECHANICS



Lehigh's Department of Mechanical Engineering and Mechanics (MEM) equips graduate students with sound physical reasoning and advanced technical skills to address complex engineering challenges. Our programs prepare graduates to lead in industries such as aerospace, electronics, energy, medical devices, and transportation.

Degrees Offered

- PhD, Mechanical Engineering
- MS, Mechanical Engineering
- MS, Aerospace & Space Systems Engineering



"I studied turbulence and its interaction with tidal stream turbines. We were working toward making tidal energy a viable form of renewable power by streamlining the turbine blade design and the overall process. I love the idea of innovation. I love studying uncharted waters—and that's what this research is. Lehigh is an exceptional place to follow your passions. The people here want you to succeed, and I felt that support from the very beginning."

—Christopher Ruhl '16 MS'17 PhD'24
Thermal Science Associate, Exponent, Inc.



REQUEST
INFORMATION



Graduate Placement

- AO Research Institute
- Boeing
- DIII-D National Fusion Facility
- Google
- Joby Aviation
- Los Alamos National Lab
- MIT
- Northeastern University
- SpaceX



**P.C. Rossin College of
Engineering & Applied Science**

LEHIGH UNIVERSITY

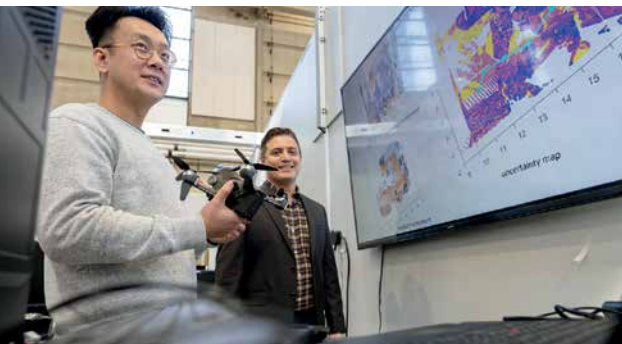
engineering.lehigh.edu

Doctoral students work closely with our distinguished faculty to conduct cutting-edge research on campus and with partners at leading universities and research centers worldwide. Students have the opportunity to publish their research in top-tier journals and present at conferences.

Master's students learn from our faculty in an individualized, small-classroom environment, and they can choose the right pace and path for their personal and professional interests (including full- and part-time degrees). Students can customize their own unique coursework degree programs with our Interdisciplinary Engineering track or pursue a thesis- or project-based degree.

MEM graduate programs combine the best of Lehigh's small-university experience with the professional advancement and impact expected of larger research institutions.

\$5.6m+ in annual research expenditures
55% of core faculty hold NSF CAREER awards
22% of core mechanical engineering faculty are women (national average: 14.8%)
167 journal articles and conference presentations (three-year average)



Research

- Sustainable energy (marine, nuclear fusion, solar, wind)
- Engineering for health (biomedical flows and mechanical behavior of biological systems)
- Materials discovery and manufacturing innovation
- Control systems and robotics
- Bio-inspired engineering

Mechanical engineering research at Lehigh is supported by an array of public and private sponsors, including the U.S. Department of Energy, National Institutes of Health, Office of Naval Research, Air Force Office of Scientific Research, and National Science Foundation.

GET A REAL LOOK AT LEHIGH

Learn more about mechanical engineering and mechanics graduate programs at engineering.lehigh.edu/mem.



ABOUT LEHIGH UNIVERSITY

Recognized as an R1 research university, Lehigh provides an exceptional academic experience to a community of nearly 8,000 students.

Our small size, ideal student-to-faculty ratio, and vibrant campus foster close collaboration with faculty and peers. Set on a beautiful, tree-lined campus, Lehigh offers a welcoming community where innovation and discovery thrive.

