GRADUATE PROGRAMS

Aerospace Engineering | Mechanical Engineering | Nuclear Engineering

THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL AND AEROSPACE ENGINEERING
DEPARTMENT FAST FACTS

2700 GRADUATE DEGREES CONFERRED IN THE PAST 25 YEARS

150-175 AVERAGE NUMBER OF MASTER’S STUDENTS

200-220 AVERAGE NUMBER OF PHD STUDENTS

16% OF DEPARTMENT GRADUATE STUDENTS ARE WOMEN

STUDENT LIFE

There is more to graduate school than the pursuit of an advanced degree. Network and socialize with fellow graduate students from across the university. Engage in a challenging pursuit or give back to the community. Take care of yourself physically and emotionally. The university provides resources for the engagement and support of graduate and professional students. From housing to enriching experiences inside and outside the classroom, you can find your home in this welcoming Buckeye community.

FACILITIES AND LIBRARIES

The department’s $72.5 million building complex, the Peter L. and Clara M. Scott Laboratory, opened in 2006 and includes 14 modern classrooms and high-quality space for research laboratories. Additionally, an electronics and computer laboratories offer working space and advanced software, while four machine shops and dedicated staff support research and student projects.

University Libraries, one of the largest library systems in North America, encompasses a wide range of specialty libraries and prides itself on expert staff and accessible resources.

LIVING IN COLUMBUS

Ohio State’s Columbus campus is a lovely, traditional campus located in the nation’s 14th largest city. With a metro population of more than 2 million, Columbus (the state’s capital) is the largest and fastest-growing city in Ohio. It has a vibrant blend of arts and culture; inspired culinary, fashion, music and entertainment scenes; exciting collegiate and professional sports; and an open, entrepreneurial spirit.

With a burgeoning downtown, lively urban districts and a variety of neighborhoods, it’s a city that invites exploration.
TRANSFORMING FROM EXCELLENCE TO EMINENCE

The mission of the Department of Mechanical and Aerospace Engineering is the education of professionals in mechanical, aerospace and nuclear engineering, the dissemination of knowledge and technology and the development of innovative solutions to problems in these fields.

DEPARTMENT FACULTY AND RESEARCH

The Department of Mechanical and Aerospace Engineering is comprised of more than 80 faculty members, whose excellence in teaching and research has been acknowledged by national and international organizations. Combined, they hold more than 50 fellow-grade memberships in engineering organizations and professional societies.

Faculty support graduate students’ research efforts by serving as advisors and mentors. The record of publications and patents by faculty and students demonstrates the broad scope of the programs and wide range of faculty expertise. The College of Engineering encourages innovation through interdisciplinary research. Drawing on the strength of academia, industry and government, faculty collaborate to address some of today’s biggest research challenges.

Many strong research partnerships exist, including with Ford Motor Company, Honda of Americas, Inc., Honeywell International Inc. and Pratt & Whitney; NASA Glenn Research Center, Air Force Research Laboratory, the Federal Aviation Administration and GE Aviation.

AREAS OF RESEARCH

College of Engineering faculty and researchers work together with students to solve some of society’s most pressing challenges. Their insights and research are at the leading edge of innovation, and they are paving the way to new knowledge and practical discoveries aligned with the university’s Discovery Themes.

Department research activities are built around four subdisciplines central to mechanical, aerospace and nuclear engineering: applied mechanics; dynamic systems, sensing and controls; design and manufacturing; and energy, fluid and thermal systems.

Research application areas within these subdisciplines are advanced aerospace systems; advanced automotive systems; bioengineering; energy and environmental quality; design, materials and manufacturing; micro- and nanotechnology; and nuclear science and engineering.

I chose to attend Ohio State because I wanted the benefits of a large research institution. The research connections at Ohio State have helped me to get not only an internship, but also a graduate fellowship at a national laboratory.”

KELLY MCCARY | NUCLEAR ENGINEERING
Doctoral Student Researcher

I chose the mechanical engineering department at Ohio State for its broad and interdisciplinary research. My first year in the program has been truly gratifying; conducting your own research and learning and applying new physics is always exciting.”

JONATHAN KADOWAKI | MECHANICAL ENGINEERING
Master’s Student Researcher, Applied Physics Laboratory
COMPETITIVE FUNDING
Fellowships and associateships are the primary sources of financial assistance provided to departmental graduate students. Approximately 80 percent of Ohio State graduate students are awarded fellowships or associateships. A service requirement related to teaching, research or administrative responsibilities is integral to associateships. Other sources of funding include research grants or employer continuing education programs.

Benefits included for fellowship and graduate associateship appointments:

- Paid tuition
- Monthly stipend
- Health insurance, including subsidy for partners, spouses and dependents
- Childcare
- Short-term absences and extended leaves of absence for personal and/or family illness, bereavement, childbirth and adoption

Admission criteria: criteria for admission to Ohio State vary by individual graduate program. Visit gpadmissions.osu.edu for information.

Applying to Ohio State: prospective graduate students must apply online at gpadmissions.osu.edu. Complete details about the Graduate School application are located at https://mae.osu.edu/academics/graduate/admissions.

Deadlines: the deadline for students admission are as follows:

- Autumn semester - December 15
- Spring semester - September 15

DIVERSE COMMUNITY
The department provides diverse opportunities for graduate studies in fundamental and applied research in all areas of mechanical, aerospace and nuclear engineering. A focus on multidisciplinary, collaborative research across departments in the College of Engineering and with other colleges at The Ohio State University, fosters exchange of ideas and opportunity for addressing projects from a systems perspective.

Along with Ohio State’s Graduate School, the department is committed to effective recruitment, retention and support for all graduate students. Inherent in that commitment is the belief that diversity is critical to excellence in graduate education and research. And, at Ohio State, the welcoming atmosphere among graduate students goes beyond the classroom: the university boasts an array of campus groups and organizations for a range of interests.
I was ecstatic to get accepted to such a prestigious graduate program. I have gained invaluable research experience from my advisor, my peers and Ohio State’s connections with institutions like the Air For Research Laboratory. The program is small enough to provide personalized assistance, but also large enough to facilitate a diverse learning environment.

EMILY DREYER  |  AEROSPACE ENGINEERING
Doctoral Student Researcher, Multi-Physics Interactions Research Group