

# ROBOTICS ENGINEERING (ONLINE) (Z153)

Graduate Certificate Program  
College: Engineering

## ABSTRACT

As one of the fastest-growing fields within technology and engineering, a graduate degree in robotics offers you career opportunities in diverse industries, including aerospace, manufacturing, defense, and even healthcare.

The University of Maryland's Master of Engineering and Graduate Certificate in Engineering programs bring together engineering professionals who have a passion for discovering robotics' potential to benefit society. Our programs are run in conjunction with the Maryland Robotics Center (<https://robotics.umd.edu/>), an interdisciplinary research center with more than 40 faculty members at the forefront of advances in robotics and over 18 laboratories with state-of-the-art technologies.

Our curriculum is designed to build understanding and expertise in robotics design, modeling, control systems, autonomous robotics, machine learning, computer vision, and human-robot interaction. With a range of technical electives, students pursuing a robotics degree are able to tailor their coursework towards their area of interest in robotics including aerial robotics, artificial intelligence, computer vision and perception, space and planetary robotics, robot kinematics and dynamics, control, networked robotic systems, and medical and rehabilitation robotics.

## FINANCIAL ASSISTANCE

Students in this program pay a special tuition rate, which does not differ between residents and non-residents of Maryland. This rate is not fully covered by graduate assistantships, fellowships or the tuition remission. Additional graduate student fees are charged. **Tuition and fees are subject to change.**

This program does not provide departmental assistantships or fellowships. Loans, work-study and need-based grants for citizens and permanent residents with demonstrated financial need may submit a Free Application for Federal Student Aid (FAFSA) by appropriate FAFSA deadlines. For more information on this process, visit: <https://fafsa.ed.gov/deadlines.htm>.

## CONTACT

Visit the **MAGE Website for Additional Information:** [www.mage.umd.edu](http://www.mage.umd.edu) (<https://mage.umd.edu/>)

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**Courses:** ENME (<https://umd-curr.courseleaf.com/graduate/courses/enme/>) ENRE (<https://umd-curr.courseleaf.com/graduate/courses/enre/>)

## ADMISSIONS

### GENERAL REQUIREMENTS

- Statement of Purpose (<https://advancedengineering.umd.edu/apply/>)
- Transcript(s)
- TOEFL/IELTS/PTE (international graduate students (<https://gradschool.umd.edu/admissions/english-language-proficiency-requirements/>))

### PROGRAM-SPECIFIC REQUIREMENTS

- Letters of Recommendation (optional): Two (2) Letters of Recommendation are required for anyone with an undergraduate GPA below 3.0.
- Graduate Record Examination (GRE) (optional)
- CV/Resume (optional)

**\*Visa Eligibility:** This program is not eligible for I-20 or DS-2019 issuance by the University of Maryland.

## APPLICATION DEADLINES

Type of Applicant	Fall Deadline	Spring Deadline
<b>Domestic Applicants</b>		
US Citizens and Permanent Residents	August 1, 2023	December 15, 2022
<b>International Applicants</b>		
F (student) or J (exchange visitor) visas; A,E,G,H,I and L visas and immigrants	August 1, 2023	December 15, 2022

### RESOURCES AND LINKS:

**Program Website:** [mage.umd.edu](http://mage.umd.edu) (<https://mage.umd.edu/>)

**Application Process:** [gradschool.umd.edu/admissions](https://gradschool.umd.edu/admissions) (<https://gradschool.umd.edu/admissions/>)

## REQUIREMENTS

- Robotics Engineering, Post-Baccalaureate Certificate (P.B.C.) (<https://academiccatalog.umd.edu/graduate/programs/robotics-engineering-online-z153/robotics-engineering-online-pbc/>)

## FACILITIES AND SPECIAL RESOURCES

This program is currently offered 100% online. The Clark School of Engineering's Distance Education Technology and Services (DETS) office administers a live interactive distance education system and webcast course capture for students to take courses as they are happening, in some instances, or at a time convenient for their schedule each week. In addition to lecture dissemination, DETS provides state-of-the-art chat, bulletin board, video chat, group presentation, and discussion technologies that give our distance students the same, if not more access to faculty and their fellow students.