

# RELIABILITY ENGINEERING (ONLINE) (Z042)

Graduate Certificate Program  
College: Engineering

## Abstract

The Graduate Certificate in Engineering program is designed to assist engineers and technical professionals in the development of their careers and to provide the expertise needed in the rapidly changing business, government, and industrial environments.

Our reliability engineering degree program provides qualified engineers with the tools they will need to better understand the factors that cause components and systems to fail. This interdisciplinary option is offered by the Department of Mechanical Engineering. Students pursuing a reliability engineering masters degree will study topics such as the mechanisms and physics of failure, methods for reliability, maintainability engineering, life cycle costing, and equipment sparing policies.

## 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 assistance. 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.

## Contact

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

### Maryland Applied Graduate Engineering

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

**Courses:** ENRE (<https://academiccatalog.umd.edu/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

- Graduate Record Examination (GRE) (optional)
- CV/Resume (optional)
- Letter of Recommendation (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	July 31, 2025	December 17, 2024
<b>International Applicants</b>		
F (student) or J (exchange visitor) visas; A,E,G,H,I and L visas and immigrants	July 31, 2025	December 17, 2024

### 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

- Reliability Engineering, Post-Baccalaureate Certificate (P.B.C.) (<https://academiccatalog.umd.edu/graduate/programs/reliability-engineering-online-z042/reliability-engineering-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.