

# CLOUD ENGINEERING (Z168)

Graduate Certificate Program  
College: Engineering

## ABSTRACT

This Graduate Certificate in Engineering program will provide a deep understanding of cloud-based information and software systems. Students will learn the fundamentals of cloud technologies, including the Linux operating system, various system virtualization technologies, SQL and non-SQL databases, and Python coding skills. The program's electives allow for further specialization in cloud security, machine learning, Internet of Things, or software-defined networking. The program will prepare students for a career in cloud-based technologies in positions such as cloud system architect, cloud engineer, and cloud application developer.

## 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/>)

### Maryland Applied Graduate Engineering

2105 J.M. Patterson Building  
4356 Stadium Drive  
University of Maryland  
College Park, MD 20742  
**Telephone:** 301.405.0362  
**Email:** [mage@umd.edu](mailto:mage@umd.edu)

**Website:** <https://mage.umd.edu/>

**Courses:** ENCH (<https://umd-curr.courseleaf.com/graduate/courses/ench/>) ENPM (<https://umd-curr.courseleaf.com/graduate/courses/enpm/>)

## ADMISSIONS

### GENERAL REQUIREMENTS

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

## PROGRAM-SPECIFIC REQUIREMENTS

- Letters of Recommendation (3)
- Graduate Record Examination (GRE) (optional)
- CV/Resume (optional)

## APPLICATION DEADLINES

Type of Applicant	Fall Deadline	Spring Deadline
<b>Domestic Applicants</b>		
US Citizens and Permanent Residents	July 31, 2024	December 15, 2023
<b>International Applicants</b>		
F (student) or J (exchange visitor) visas; A,E,G,H,I and L visas and immigrants	N/A	N/A

### RESOURCES AND LINKS:

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

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

## REQUIREMENTS

- Cloud Engineering, Post-Baccalaureate Certificate (P.B.C.) (<https://academiccatalog.umd.edu/graduate/programs/cloud-engineering-z168/cloud-engineering-pbc/>)