

CLOUD ENGINEERING (Z168)

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.

The Cloud 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 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 (<https://mage.umd.edu/>)

Maryland Applied Graduate Engineering

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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

- 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
Domestic Applicants		
US Citizens and Permanent Residents	July 31, 2025	December 17, 2024
International Applicants		
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/>)

Application Process: 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/>)

FACILITIES AND SPECIAL RESOURCES

This program is currently offered in-person at the College Park Campus. In addition to in-person courses, you may have the option to take some course requirements in an online format. Course format offerings are subject to change.

This program is also offered 100% online. Please see Cloud Engineering (Z169) for more information.