The Master of Engineering in Cloud Engineering is a great way to acquire deep understanding of cloud-based information and software systems. Students will get a chance to learn the fundamentals of cloud technologies, and develop solid coding skills using the Python language.

ZOLTAN SAFAR
DIRECTOR OF THE MASTER'S IN TELECOMMUNICATIONS PROGRAM

TOP CLOUD ENGINEERING ROLES

- Systems Administrator
- Security Engineer
- Software Engineer
- Data Engineer
- Cloud Engineer
- Cloud System Architect
- Cloud Application Developer
- Development Operations Engineer

The A. James Clark School of Engineering is a catalyst for high-quality research, innovation, and learning, providing students the resources to be engaged problem-solvers and entrepreneurial thinkers. Pursue a degree tailored to your career interests through the top-ranking Maryland Applied Graduate Engineering programs.

DON'T WAIT TO FURTHER YOUR CAREER

A. JAMES CLARK SCHOOL OF ENGINEERING

MARYLAND APPLIED GRADUATE ENGINEERING

FOR MORE INFORMATION
We welcome your interest. For complete information, including course descriptions, deadlines, and schedules please contact us.

WEBSITE: **mage.umd.edu**
TEL: **855-309-8379**
EMAIL: **mage@umd.edu**

GRADUATE ENGINEERING DEGREES IN

CLOUD ENGINEERING

Develop the high-demand skills needed to build and manage cutting-edge cloud-based systems.

DON'T WAIT TO FURTHER YOUR CAREER

Discover how Maryland Applied Graduate Engineering (MAGE) programs prepare you to solve the most daunting engineering challenges and give you a competitive edge in today's market.

- Focus on a specialized area of engineering and target course-work to your interests.
- Learn from industry leaders who incorporate the latest education tools to create collaborative, interactive learning environments.
- Balance work and family through the flexibility of online or in-person classes.
- Access student services online to quickly receive the support you need regarding admissions, financial aid, or career services.

A leader in graduate engineering education for professionals, we are proud to serve the region's engineering community. Through our programs, advance your career with a degree from the A. James Clark School of Engineering, consistently ranked among the top 20 in the U.S. Located just a few miles from Washington, D.C., Maryland Engineering is at the center of a constellation of high-tech companies and federal laboratories, offering students and faculty access to unique professional opportunities.

CLOUD ENGINEERING AT MARYLAND

The cloud has quickly become the cornerstone of digital business, changing the way organizations function and streamlining operations. Rather than make major investments to buy equipment, train staff, and provide ongoing maintenance, organizations are finding that many of these needs are handled by a cloud service provider. Millions of jobs are now associated with cloud computing, and the demand for cloud engineers—who apply engineering concepts to cloud computing—to control and manage organizations' cloud-based information processes is likely to increase dramatically. This program is offered in partnership with the A. James Clark School of Engineering's Department of Electrical and Computer Engineering. The department's close affiliation with several UMD research institutes, such as the Institute for Systems Research, the Institute for Advanced Computer Studies, the Institute for Research in Electronics and Applied Physics, the Institute for Physical Science and Technology, and the Maryland NanoCenter, provides students and researchers the opportunity for team-oriented, cross-disciplinary research and access to state-of-the-art laboratories.

GRADUATE PROGRAMS IN CLOUD ENGINEERING

The **Master of Engineering** and **Graduate Certificate in Engineering** degrees 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. Electives allow for further specialization in cloud security, machine learning, Internet of Things, or software-defined networking. Students gain an understanding of the cloud engineer's range of responsibilities in the global marketplace for cloud computing services. The program provides students with a robust program that allows them to learn both the technical and applied aspects of cloud engineering and prepare for a variety of careers in cloud-based technologies, challenges in government, the nonprofit sector, and private industry.

ADMISSION REQUIREMENTS

- A bachelor's degree in a STEM field from an accredited institution
- GPA of 3.0 or better
- Two letters of recommendation (M.Eng applicants only)
- Unofficial copies of transcripts
- For international students: an official English proficiency score report
- Official GRE scores considered but not required
- Completed applications considered for admission on a case-by-case basis

DEGREE REQUIREMENTS

MASTER OF ENGINEERING

- 10 courses (30 Credits)
- No thesis / no research
- No comprehensive exam

GRADUATE CERTIFICATE IN ENGINEERING

- 4 courses (12 credits)

FULL LISTING OF COURSES

mage.umd.edu/cloud-engineering or scan here for more specific requirements, available courses, and degree planning sheets.

APPLICATION DEADLINES

ON-CAMPUS DOMESTIC

FALL July 31
SPRING December 15
SUMMER May 15

ON-CAMPUS INTERNATIONAL

FALL March 8
SPRING September 24

ONLINE DOMESTIC AND INTERNATIONAL

FALL July 31
SPRING December 15
SUMMER May 15

TAKE THE NEXT STEP

Are you ready to take the next step in your engineering career journey? Explore program options, application requirements, and deadlines through virtual and in-person open house sessions.

TO LEARN MORE, VISIT
mage.umd.edu/cloud-engineering