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 electronic packaging Graduate Certificate in Engineering leverages the university's unique strength in reliability along with its expertise in electrical engineering, mechanical engineering, materials science, and business to empower students to further careers in areas such as avionics, automotive electronics, industrial motor drives, military electronics, and medical equipment. Course topics include basics of electronic system integration, heat transfer, thermal management, stress analysis, cost analysis, quality and reliability assessment, and prognostics and health management.

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
Caitlin Gover
Program Manager for Admission and Recruitment
Maryland Applied Graduate Engineering
2105 J.M. Patterson Building
4356 Stadium Drive
University of Maryland
College Park, MD 20742
Telephone: 301.405.7712
Email: cgover@umd.edu
Website: https://mage.umd.edu/

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

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. Anyone with a GPA 3.0 or above should contact the MAGE with a request to waive this requirement.
- 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

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

RESOURCES AND LINKS:
Program Website: mage.umd.edu (https://mage.umd.edu/)
Application Process: gradschool.umd.edu/admissions (https://gradschool.umd.edu/admissions/)

Requirements
- Electronic Packaging, Post-Baccalaureate Certificate (P.B.C.) (https://academiccatalog.umd.edu/graduate/programs/electronic-packaging-online-z111/electronic-packaging-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 or at a time convenient for their schedule. 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.