ELECTRONIC PACKAGING
(Z112)

Graduate Certificate Program
College: Engineering

Abstract
The Professional Master of Engineering program is a practice-oriented part-time graduate program 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. Late afternoon, evening, and 100% online classes are taught by the College Park faculty and experienced adjunct faculty at the College Park campus and designated learning centers in Maryland.

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 (https://fafsa.ed.gov/deadlines.htm).

Contacts
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Office of Advanced Engineering Education
2105 J.M. Patterson Building
4356 Stadium Drive
University of Maryland
College Park, MD 20742
Telephone: 301.405.7200
Email: adamm1@umd.edu
Website: http://www.advancedengineering.umd.edu

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

- 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 Office of Advanced Engineering Education with a request to waive this requirement.

*Visa Eligibility:* This program is not eligible for I-20 or DS-2019 issuance by the University of Maryland. International applicants should consider applying for the online programs. (https://gradschool.umd.edu/engineering/cert-online)

Applicants with an undergraduate GPA of less than 3.0 may be admitted on a provisional basis if they have demonstrated satisfactory performance in another graduate program and/or their work has been salutary.

Applicants with foreign credentials must submit academic records in the original language with literal English translations. Allow at least three months for evaluation of foreign credentials. International applicants are advised to review the Graduate School English requirements to learn whether or not the submission of TOEFL or IELTS scores is required.

Full admission requires the following prerequisites:

- A bachelor’s degree in engineering from an accredited institution.
- Completion of calculus I, II, and III and differential equations. Courses in thermodynamics, fluid mechanics, heat transfer, and structural mechanics (equivalent of ENES220) are recommended.
- Completed applications are reviewed on a case-by-case basis. Please visit the department website (https://advancedengineering.umd.edu/application-process) for more information.

For more admissions information or to apply to the program, please visit our Graduate School website: www.gradschool.umd.edu/admissions

Application Deadlines

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<thead>
<tr>
<th>Type of Applicant</th>
<th>Fall Deadline</th>
<th>Spring Deadline</th>
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<tbody>
<tr>
<td>Domestic Applicants</td>
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<td>US Citizens and</td>
<td>26 July</td>
<td>14 Dec</td>
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<td>Permanent Residents</td>
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<td>International Applicants</td>
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<td>F (student) or J</td>
<td>26 July</td>
<td>14 Dec</td>
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<td>(exchange visitor)</td>
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<td>visas; A, E, G, H, I and L visas and immigrants</td>
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Other Deadlines: Please visit the program website at http://www.advancedengineering.umd.edu

Requirements


Facilities and Special Resources

Courses in the Professional Master of Engineering program are currently offered on the College Park campus, at off-campus centers via video-teleconferencing, and 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. Remote sites around the State of Maryland where our courses can be taken live via DETS are at the Universities at Shady Grove in Montgomery County, the University Center of Northeastern Maryland in Harford County, and the Southern Maryland Higher Education Center in St. Mary's County. 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.

The Clark School's Engineering Information Technology group also provides access to needed software and computer resources through dedicated virtual computer terminals that allow distance students full access to licensed software, libraries, databases, and specialized programs.

**Faculty**

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<tr>
<th>Last Name</th>
<th>First/Middle Name</th>
<th>Graduate Faculty Status</th>
<th>Academic Credentials</th>
<th>Positions</th>
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