HYPersonics (Z165)

Graduate Certificate Program
College: Engineering

ABSTRACT
This certificate will provide participants with a deep understanding of the key principles relevant to the flight of high-speed vehicles and projectiles in the atmosphere. Students will be introduced to crucial concepts in areas such as hypersonic aerodynamics, high-speed airbreathing propulsion, high-temperature structures and materials, and high-speed guidance, navigation & control. More specialized courses will also be offered in important areas such as high-temperature gas dynamics, transition, turbulence, experimental and computational methods, and vehicle design. The certificate will prepare students for a career in hypersonics-related fields in both the commercial and defense sectors.

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 (https://mage.umd.edu/)

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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
• See department for details

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 Permanent</td>
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<td>Residents</td>
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<td>International Applicants</td>
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<td>F (student) or J (exchange visitor) visas; A,E,G,H,I and L visas and immigrants</td>
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RESOURCES AND LINKS:
Program Website: mage.umd.edu (https://mage.umd.edu/)
Application Process: gradschool.umd.edu/admissions (https://gradschool.umd.edu/admissions/)

REQUIREMENTS
• Hypersonics, Post-Baccalaureate Certificate (P.B.C.) (https://academiccatalog.umd.edu/graduate/programs/hypersonics-z165/hypersonics-pbc/)