QUANTUM COMPUTING (Z157)

Graduate Certificate Program
College: Computer, Mathematical, and Natural Sciences

ABSTRACT
The Professional Graduate Certificate in Quantum Computing introduces the applicants to quantum computing and an overview of its current state. Participants explore machine learning and identify areas where quantum computing can impact this discipline. We explore applications of quantum computing to optimization, chemistry, encryption, information theory and communications. Participants will have the opportunity to apply learning through hands-on exercises and experiential learning. No prior knowledge in quantum physics or quantum computing is necessary.

FINANCIAL ASSISTANCE

CONTACT
Science Academy
College of Computer, Mathematical, and Natural Sciences
3400 A.V. Williams
8223 Paint Branch Drive
University of Maryland
College Park, MD 20742
Telephone: 301.405.9101
Email: scienceacademy@umd.edu

Website: https://cmns.umd.edu/graduate/science-academy/quantum-computing (https://cmns.umd.edu/graduate/science-academy/quantum-computing/)
Courses: MSQC (https://cmns.umd.edu/graduate/science-academy/quantum-computing/courses/)

APPLICATION DEADLINES

<table>
<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>
<td>June 30, 2022</td>
<td>November 30, 2022</td>
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RESOURCES AND LINKS:
Program Website: scienceacademy.umd.edu (https://scienceacademy.umd.edu/)
Application Process: www.gradschool.umd.edu/admissions (http://www.gradschool.umd.edu/admissions/)

REQUIREMENTS


ADMISSIONS

GENERAL REQUIREMENTS
- Statement of Purpose
- Transcript(s)
- TOEFL/IELTS/PTE (Select International Graduate Students (https://gradschool.umd.edu/education/z069/))

PROGRAM-SPECIFIC REQUIREMENTS
- Letters of Recommendation (optional, up to 3)
- Graduate Record Examination (GRE) (optional) or Graduate Management Admission Test (GMAT) (optional)
- CV/Resume
- Description of Research/Work Experience

*Visa Eligibility: This program is not eligible for I-20 or DS-2019 issuance by the University of Maryland.

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