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
Financial aid, in the form of teaching assistantships, research assistantships, and fellowships, is offered to qualified applicants. Almost all full-time students receive some type of financial aid.

CONTACT
Graduate Office
Department of Computer Science
1130 Brendan Iribe Center for Computer Science and Engineering
8125 Paint Branch Drive
University of Maryland
College Park, MD 20742
Telephone: 301.405.2662
Email: csgradof@cs.umd.edu

Website: http://www.cs.umd.edu/grad/catalog

Requirements
• Statement of Purpose
• Transcript(s)
• TOEFL/IELTS/PTE (Select International Graduate Students)

*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>
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<tbody>
<tr>
<td>Domestic Applicants</td>
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<tr>
<td>US Citizens and Permanent</td>
<td>June 30, 2022</td>
<td>November 30, 2022</td>
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RESOURCES AND LINKS:
Program Website: scienceacademy.umd.edu
Application Process: www.gradschool.umd.edu/admissions

Requirements
• Quantum Computing, Post-Baccalaureate Certificate (P.B.C.)

Admissions

GENERAL REQUIREMENTS
• Statement of Purpose
• Transcript(s)
• TOEFL/IELTS/PTE (Select International Graduate Students)

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