Workshop Title: Supporting Minority Serving Institutions in the Creation of a Diverse, Quantum-Ready Workforce

**Location:** The University of the District of Columbia  
Window Lounge (Building 38, 2nd floor)  
4200 Connecticut Ave., NW, Washington, D.C. 20008  
**Campus map:** [https://www.udc.edu/about/campus-map/](https://www.udc.edu/about/campus-map/)  
**Dates:** July 12-13, 2023

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<th>Time</th>
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<tr>
<td>8:00 - 9:00 am</td>
<td><strong>Registration and Breakfast</strong></td>
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| 9:00 - 9:20 am | **Opening Remarks: Welcome**  
Prof. Victor McCrary, Jr., University of DC  
Prof. Serena Eley, University of Washington, Seattle, WA  
Prof. Sergiy Lysenko, University of Puerto Rico, Mayaguez, PR |
| 9:25 am - 3:00 pm | **Session 1: Opportunities in QISE Industry**  
Chair: Prof. Stephen Providence  
5 minutes Q&A after each talk |
| 9:25 - 9:45 am | **IBM Quantum for Educators: How to Get the Most Impact in your Course**  
Dr. Brian Ingmanson, IBM |
| 9:50 - 10:10 am | **Practical Quantum Experiences**  
Dr. Nathan Bishop, Intel |
| 10:15 - 10:30 am | **Coffee/Tea Break**                                                                      |
| 10:35 - 10:55 am | **Relevant Technical Skills at a Full-stack Superconducting Qubit Company**  
Dr. Angela Chen, Rigetti Computing |
| 11:00 - 11:20 am | **QIS Opportunities in the Corporate World**  
Mr. Austin Davis, Boeing |
| 11:25 - 11:45 am | **From the Ground State Up: A Guide for Early-stage Companies**  
Navigating the Quantum Workforce Development Ecosystem  
Dr. Dennis Lucarelli, Error Corp |
| 11:50 am - 12:50 pm | **Lunch**                                                                                 |
| 12:55 - 1:15 pm | **Exploring Career Opportunities in the QISE Industry with Quantinuum**  
Dr. Kathrin Spendier, Quantinuum |
| 1:20 - 1:40 pm | **Opportunities in QISE and the Secret Formula for Landing Them**  
Dr. David Steuerman, IonQ |
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<tr>
<td>1:45 - 2:15 pm</td>
<td>Small group discussion</td>
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| 2:20 - 2:50 pm | Industry Panel and Q&A  
Moderator: Dr. Emily Edwards                                      |
| 2:50 - 3:00 pm | Coffee/Tea Break                                                    |
| 3:00 - 5:20 pm | Session 2: Educational Resources to Assist with New Quantum Courses/Programs  
Chair: Dr. Angela Hight Walker  
5 minutes Q&A after each talk |
| 3:00 - 3:20 pm | Jump Starting Quantum Computing Activities with qBraid at US’s Largest HBCU  
Prof. Kanav Setia, qBraid |
| 3:25 - 3:45 pm | Qubitekk: Connecting you to the Quantum Future  
Dr. Jason Schaake, Qubitekk |
| 3:50 - 4:15 pm | Teaching tools for Quantum Materials and Quantum Optics from Quantum Design  
Dr. Katya Seal, Quantum Design |
| 4:20 - 4:40 pm | The Quantum Technologies Training and Testbed Lab at UW: Beginnings and Prospects  
Dr. Maxwell Parsons, University of Washington |
| 4:45 - 5:05 pm | The State of Quantum Education at the High School Level in the DVM:  
Steps we need to take to support the next Quantum Ready Workforce  
Dr. Mark Hannum, AAPT |
| 5:10 - 7:10 pm | Dinner                                                               |

July 13, 2023

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| 9:00 - 9:10 am | Opening Remarks: Welcome  
Prof. Serena Eley, University of Washington, Seattle, WA  
Prof. Sergiy Lysenko, University of Puerto Rico, Mayaguez |
| 9:15 am - 12:50 pm | Session 3:  
New Quantum Programs and Course at MSIs and Educational Resources to Develop courses  
Chair: Dr. Maxwell Parsons  
5 minutes Q&A after each talk |
| 9:15 - 9:35 am | Challenges and Opportunities for Expanding the QISE Research Workforce at HBCUs  
Prof. Raymond E Samuel, North Carolina A&T University |
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| 9:40 - 10:00 am | QISE Education in the California State University: Launching a Masters Program at SJSU  
Prof. Hilary Hurst, San Jose State University |
| 10:05 - 10:25 am | The Advancements in QISE Educational and Research Program at NCCU: A Collaboration with Duke University, University of Maryland, North Carolina State University, and IBM  
Prof. Branislav Vlahovic, North Carolina Central University |
| 10:30 - 10:45 am | Coffee/Tea Break |
| 10:50 - 11:10 am | How the Rapid Development of the Field of QISE Provides an Opportunity for Novel Academic-Industry-Government Engagement and Partnerships  
Prof. Russell Ceballos, University of Chicago and QuSTEAM |
| 11:15 - 11:35 am | Developing Experiential Learning for QIS  
Prof. Richard Ross, University of California Los Angeles |
| 11:45 - 12:15 pm | Small group discussion |
| 12:20 - 12:50 pm | New Quantum Programs Panel and Q&A  
Moderator: Dr. Emily Edwards |
| 12:55 - 1:55 pm | Lunch |

2:00 - 4:50 pm | Session 4: Funding Opportunities Targeting MSIs and PUIs  
Chair: Ratnakar Palai  
10 minutes Q&A after each talk |
| 2:00 - 2:20 pm | Opportunities in Quantum Information Science and Engineering  
Dr. Tomasz Durakiewicz, National Science Foundation |
| 2:30 - 2:50 pm | The NSF CREST Program, Supporting a Diverse Quantum Workforce  
Dr. Luis Cubano, National Science Foundation |
| 3:00 - 3:20 pm | DOE QIS and Workforce Development Programs  
Dr. Claire Cramer, Department of Energy |
| 3:30 - 3:45 pm | Coffee/Tea Break |
| 3:45 - 4:15 pm | Small group discussion |
| 4:20 - 4:40 pm | Program Managers Panel and Q&A  
Moderator: Prof. Hilary Hurst |
| 4:45 - 4:55 pm | Closing Remarks  
Prof. Serena Eley, University of Washington, Seattle, WA  
Prof. Sergiy Lysenko, University of Puerto Rico, Mayaguez |