

Quantum Information Science Career Fair 2023

September 13, 2023 | 11:00 a.m. ET – 5:00 p.m. ET

11:00 – 11:05 a.m.

Opening Remarks

Asmeret Asefaw Berhe
U.S. Department of Energy Office of Science, Director

11:05 – 11:10 a.m.

Welcome and Program Overview

Plenary Moderator: Trina Bilal
U.S. Department of Energy Office of Minority Educational Institutions, Program Manager

11:10 – 11:25 a.m.

Keynote Presentation: Are We There Yet? | Quantum Information Science in the Department of Energy's Office of Science

Presenter: Ceren Susut
U.S. Department of Energy Office of Science, Advanced Scientific Computing Research, Associate Director; Computational Science Research & Partnerships, Director

11:25 – 11:50 a.m.

View From the Top | Quantum Market Overview

Presenter: Charles Tahan
White House Office of Science and Technology Policy, Assistant Director for Quantum Information Science; National Quantum Coordination Office, Director

11:50 a.m. – 12:05 p.m.

BREAK

12:05 – 12:45 p.m.

Keynote Panel Session: Transcendence | When Industry, Academia, and Government Collide (Department of Energy National QIS Research Centers)

Find out how to engage with the Department of Energy QIS research centers, how the centers address complementary aspects of industry, academia and the national labs, what the centers are doing to make QIS inclusive, and about its emerging research areas in the next decade.

Moderator: Celia Merzbacher, QED-C Director, SRI International

Panelists:

Andrew Houck
Co-design Center for Quantum Advantage (C²QA, led by Brookhaven National Laboratory), Director; Princeton University, Professor of Electrical and Computer Engineering

David Awschalom
Q-NEXT (led by Argonne National Laboratory), Director; University of Chicago Pritzker School of Molecular Engineering, Vice Dean for Infrastructure and Research; Argonne National Laboratory, Senior Scientist

Rick Muller
Quantum Systems Accelerator (QSA, led by Lawrence Berkeley National Laboratory), Director; Sandia National Laboratories, Senior Manager; Advanced Microsystems Group at Sandia, Senior Manager

Travis Humble
Quantum Science Center (QSC, led by Oak Ridge National Laboratory), Director; Quantum Computing Institute at Oak Ridge, Director

Anna Grassellino
Superconducting Quantum Materials and Systems (SQMS, led by Fermi National Accelerator Laboratory), Director; Fermilab, Senior Scientist

12:45 – 1:15 p.m.

**** NEW in 2023 ** Hidden Figures | Increasing Diversity, Equity, and Inclusion in the QIS Workforce Panel Session**

Learn how the Department of Energy and other government agencies are advancing DEI in QIS, how existing entities are driving engagement, partnerships, and employment opportunities within underrepresented and underserved communities, and access resources to get involved in QIS research collaborations and workforce development opportunities.

Moderator: Noel Blackburn, Brookhaven National Laboratory, Chief Diversity Officer

Panelists:

Tina Brower (C²QA), Howard University Center for Integrated Quantum Materials, Executive Director

Megan Ivory (QSA), Sandia National Laboratories, Physicist

Denise Ruffner, Diversity in Quantum, President and Co-Founder

Thomas Searles (C²QA), University of Illinois Chicago, Associate Professor of Electrical and Computer Engineering

1:15 – 1:30 p.m.

BREAK

1:30 – 2:00 p.m.

Transformers | Quantum Careers in Industry Panel Session

Learn what it's like to work in industry, how industry careers differ from and overlap with QIS pursuits in academia or the national labs, how to make yourself more marketable to a tech company, and about the opportunities for QIS research.

Moderator: Preeti Chalsani, Duality, Deputy Director; Chicago Quantum Exchange, Director of Industry Partnerships

Panelists:

Noah Fitch (QSC), Inflection, Senior Physicist, Quantum Matter Portfolio Technical Lead

Antia Lamas-Linares (Q-NEXT), Amazon Web Services, AWS Center for Quantum Networking Lead

Jay Lowell (Q-NEXT), Boeing, Chief Scientist for Disruptive Computing and Networks

2:00 p.m.

Plenary Session Closing Remarks

2:00 – 3:00 p.m.

Visit National Labs & Government Agencies Networking Lounge

Mix and mingle informally with other attendees, exhibiting organizational reps, ask questions about job opportunities and inquire about QIS research being done at participating organizations

2:15 – 5:00 p.m.

Exhibit Booths Open (2:15 – 5:00 p.m. ET)

Meet face-to-face with hiring managers, direct apply to roles, schedule follow-up meetings, access job resources, and learn more about jobs and internships

2:45 – 4:15 p.m.

Break-out Sessions

Meet Quantum Information Science Professionals

Interact with scientists, engineers, information technologists, students, and professionals in the broader QIS ecosystem; With two sessions offered during each segment, you can mix and match the ones that best suit your needs

2:45 – 4:15 p.m. (cont.)

2:45 – 3:15 p.m.

The Theory of Everything

Level: all students, early-mid career professionals

Interests: broad QIS research areas, theory, applications, experimentation

3:15 – 3:45 p.m.

The Matrix

Level: all educational and career stages

Interests: engineering, information technology, artificial intelligence and machine learning, cybersecurity, technicians

3:45 – 4:15 p.m.

The Intern

Level: undergrads, grad students

Interests: internships, mentoring, course selection, skills acquisition, building your CV

2:45 – 3:15 p.m.

I'm Not a Physicist... Now What?

Level: all students, early-mid career professionals

Interests: human resources, recruiting, communications, program management, strategy, outreach

3:15 – 3:45 p.m.

Higher Learning

Level: grad students, postdocs

Interests: finding the right job fit, journey into QIS research, career exploration, differentiating oneself, impostor syndrome

3:45 – 4:15 p.m.

Second Act

Level: midcareer professionals, career pivoters

Interests: academia, breaking barriers, contributing to QIS research, career exploration, skills acquisition, outreach

2:45 – 3:15 p.m.

The Theory of Everything | Scientists and Researchers Break-out Session

Find out what to study to enter the field of QIS, which skills you should develop and keep current, and the roles available to scientists in industry, academia and the national labs.

Moderator: Steve Girvin (C²QA), Yale University, Eugene Higgins Professor of Physics

Panelists:

Bert de Jong, Quantum Systems Accelerator (QSA), Deputy Director; Lawrence Berkeley National Laboratory, Senior Scientist and Applied Computing for Scientific Discovery Group Lead

Florent Lecocq (SQMS), National Institute of Standards and Technology, Physicist

Gabe Perdue (SQMS), Fermi National Accelerator Laboratory, Senior Scientist

Shruti Puri (C²QA), Yale University, Assistant Professor of Applied Physics and of Physics

2:45 – 3:15 p.m.

**** NEW in 2023 ** I'm Not a Physicist, Now What? | Supporting Roles in QIS Break-out Session**

Learn about the operations side of quantum information science, hear from professionals in human resources, business, communications, and program management, and find out how your skills can be used to further the field of QIS.

Moderator: Phil Smith, Q-NEXT, Technology Integration Manager; Argonne National Laboratory, Strategic Programs Manager

Panelists:

Hannah Adams, SQMS Center and Fermi National Accelerator Laboratory, Communications and Partnership Manager

Eze Burts, Duality, Director

Sherri Chandler (C²QA), Howard University, Program Manager

Karen Kniep (C²QA), Pacific Northwest National Laboratory, Senior STEM Ed Consultant

Andy Wingstrom (Q-NEXT), Inflection, Senior Manager for Talent Acquisition

3:00 – 4:00 p.m.

3:15 – 3:45 p.m.

3:15 – 3:45 p.m.

3:45 – 4:15 p.m.

Visit Academic Institutions Networking Lounge

The Matrix | Engineers, Information Technology, and Cybersecurity Break-out Session

Learn about the types of technical jobs that are available with or without an advanced degree, the skills you need to join the workforce, and how engineering, IT, and cybersecurity support the QIS ecosystem.

Moderator: Charlotte Evans, Sandia National Laboratories, Staff Scientist

Panelists:

Gustavo Cancelo (QSC), Fermilab, Senior Electronic Engineer and Scientist

Carl Miller, National Institute of Standards and Technology (NIST), Mathematician

Corban Tillemann-Dick, Maybell Quantum, Founder and CEO

Beatriz Yankelevich, MIT, Graduate Research Fellow

Higher Learning | Graduate Students and Early Postdocs Break-out Session

Learn best practices to differentiate yourself when applying for a job, how you can find a career path that best suits your goals, where to look for a job, about the job process and how you might transfer your skill sets into a QIS career.

Moderator: Sam Stein (C²QA), Pacific Northwest National Laboratory, Quantum Computer Scientist, High Performance Computing

Panelists:

Ashley Blackwell (C²QA), University of Illinois Chicago, Electrical Engineering Ph.D. Student

Israel Hernandez (QSC), Illinois Institute of Technology, Research Assistant

Poolad Imany, Icarus Quantum Inc., Founder and CEO; National Institute of Standards and Technology (NIST), Postdoctoral Associate

Olivia Liebman (QSC), University of California Los Angeles, Ph.D. Student

The Intern | Undergraduate Students Break-out Session

Learn about what courses to take to build quantum knowledge, what to look for in graduate programs, how to differentiate yourself when applying for internships or grad school and finding a mentor to guide your educational path.

Moderator: Jennifer Choy (Q-NEXT), University of Wisconsin–Madison, Assistant Professor of Electrical and Computer Engineering

Panelists:

Jessica Barbosa Martins (Q-NEXT), Argonne National Laboratory, Postdoctoral Appointee

Hans Johnson (SQMS), Illinois Institute of Technology, Ph.D. Student

Eduardo Muccio, University of Central Florida, Professor of Physics

3:45 – 4:15 p.m. (cont.)

**** NEW in 2023 ** Second Act | Academics and Professionals New to QIS Research Break-out Session**

Get advice on how to switch gears into quantum information science, learn about educational resources for people to be educated on QIS and pivot to a QIS career, and find out about mentoring resources for early-career professionals.

Moderator: Sophia Economou (C²QA), Virginia Tech, Professor of Physics

Panelists:

Angela Kelly, Stony Brook University, Professor of Physics and Science Education

Alex Ruichao Ma (QSC), Purdue University, Assistant Professor of Physics and Astronomy

Vivien Zapf, Quantum Science Center (QSC), Deputy Director; National High Magnetic Field Laboratory and Los Alamos National Laboratory, Scientist

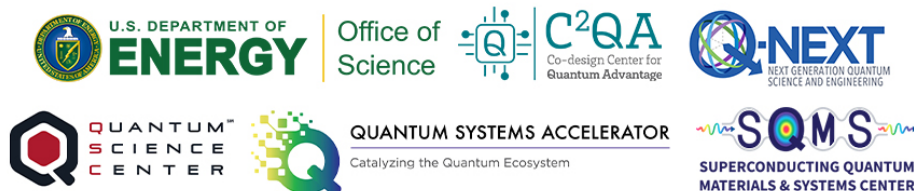
4:00 – 5:00 p.m.

Visit Industry Organizations Networking Lounge

5:00 p.m.

PROGRAM END

Thank you for attending the QIS Career Fair 2023 hosted by the U.S. Department of Energy National QIS Research Centers.



We acknowledge the commitment of the U.S. Department of Energy's (DOE) Office of Science for its sponsorship with much gratitude extended to Dr. Asmeret Asefaw Berhe and the National QIS Research Centers' Program Managers.

Special thanks to our speakers, panelists, moderators, exhibitors, attendees, and all those who contributed to the program's success.

We are grateful to the DOE QIS Centers planning team who helped to coordinate and promote this event.

Thank you to the Brookhaven team and vFairs for hosting this event.
We extend a heartfelt thank you.

Event planning and coordination is led by C²QA (Brookhaven National Laboratory) with co-organizers Q-NEXT (Argonne National Laboratory) and QSA (Sandia National Laboratories).

Be sure to visit <https://www.bnl.gov/nqisrcccareerfair/> to access session recordings after the completion of the event.