

Quantum Careers & Education Panel

Photonics for Quantum Workshop, Jan 23, 2019

Moderator: Ben Zwickl, RIT School of Physics and Astronomy

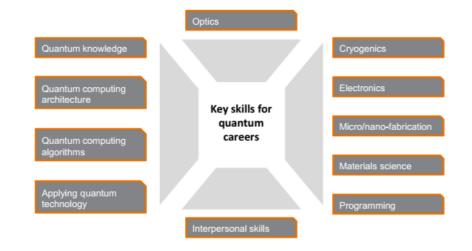
Quantum Careers Flyer for Students

Will be posted on the conference website.



Careers and Education Panel Jan 23, 2019 4:20-5:30 PM

What is needed for today's quantum careers?



What jobs are available?

PhD level

- Highly technical jobs in research, design, development, and testing all aspects of quantum systems.
- Application engineers that support customers in adopting quantum technology products.

BS and MS level

- Hands-on fabrication, building, and testing of systems.
- Programming, including machine learning, artificial intelligence.
- Quantum sales engineers and business operations.
- On-the-job training is common.

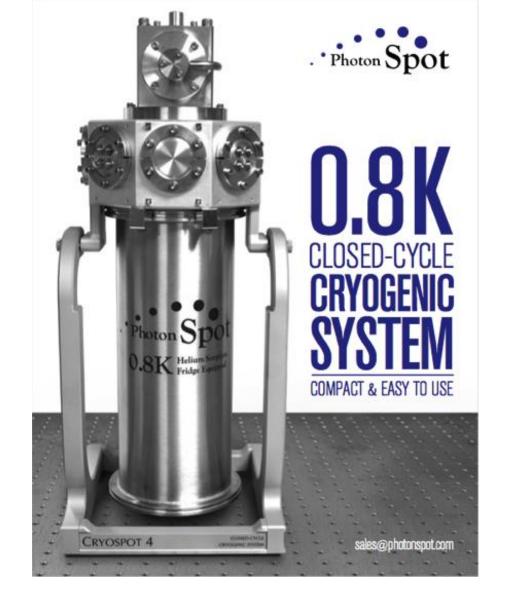
What experiences are helpful?

- Practical, hands-on experiences with broad range of technologies.
- Building experiments or projects from the ground-up.
- Projects that demonstrate a portfolio of accomplishments.
- Collaborative projects or research experiences.
- Business mindset in addition to technical drive.

This document was prepared by Dr. Ben Zwickl with input from a large number of the employers in attendance at the Photonics & Quantum Workshop at RIT, Jan 23-25. Many thanks to all who provided input. Dr. Zwickl is responsible for any errors.

Schedule

- 4:20-4:55 Panel Discussion
 - Intro
 - Moderator's questions
 - Audience questions
- 5-5:30 PM, Student Networking Q&A (adjacent in the 1829 room)
 - All employers are welcome
 - All students (all majors, undergrad and grad, from RIT and elsewhere)
 - Refreshments and hors d'oeuvres





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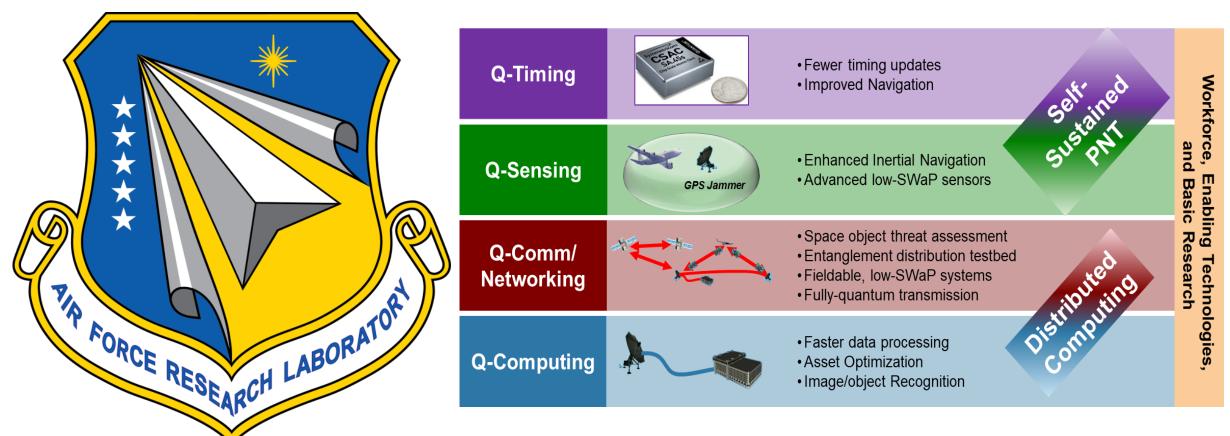


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VIKAS ANANT, Ph.D.

FOUNDER & CEO PHOTON SPOT, INC.

Quantum Information Science

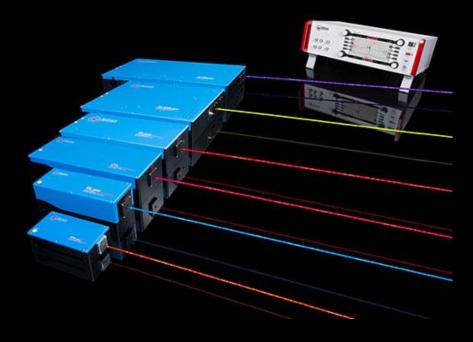


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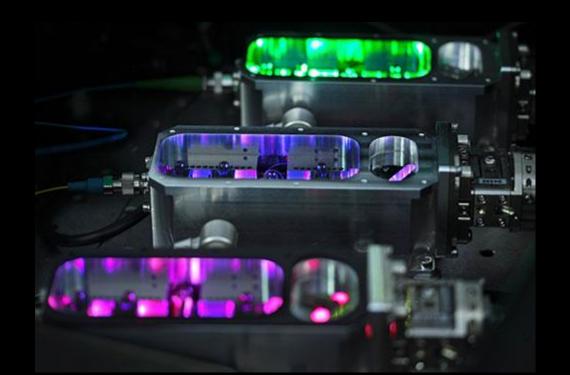
High-end laser systems for scientific and industrial applications.



Tom Tongue, TOPTICA Photonics

TOPTICA's products for applied quantum technology:

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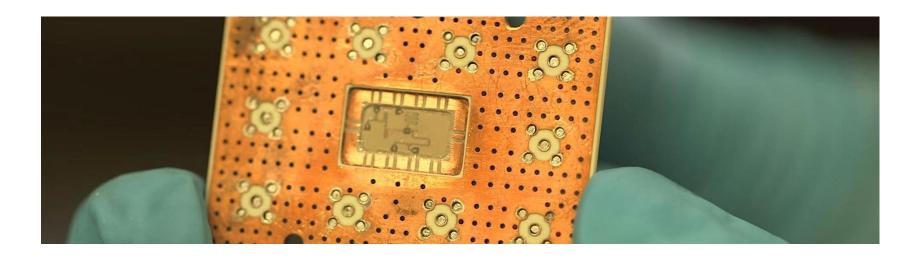
Contact

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Eric Dudley, PsiQuantum

Raytheon



QUANTUM INFORMATION

TURNING QUANTUM THEORY INTO REALITY

Mo Soltani, Raytheon

Superconducting qubits

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Nanophotonics

https://www.raytheon.com/capabilities/products/quantum

Q1:

Could you give examples of quantum technology jobs that your organization has hired recently or will hire soon?

Q2: What are the pathways into quantum technology jobs?

Are there opportunities at all levels (BS, MS, PhD)?

Q3: What kinds of quantum-related skills and knowledge are useful in your organization?

Q4: What other kinds of supporting technologies and knowledge are useful (e.g., cryogenics)?

Audience questions

Student Networking Q&A

5-5:30 PM, (adjacent in the 1829 Room, this building)

All employers are welcome

All students (all majors, undergrad and grad, from RIT and elsewhere)

Refreshments and hors d'oeuvres