



## WEBINARS

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# Introduction to Quantum Computer Hardware and Modalities

**Thursday, April 15, 2021 12:00 PM - 1:00 PM EDT**

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Presented by

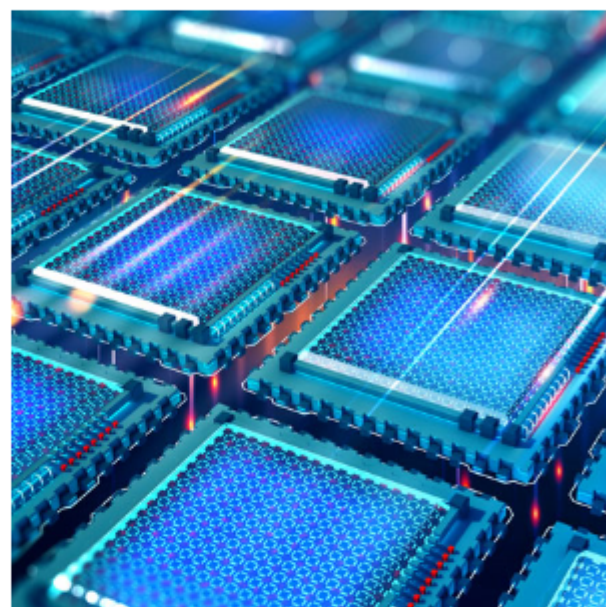


## .: About This Webinar

Quantum computers hold the potential to address complex problems in fields such as material science, quantum chemistry, finance, and pharmaceuticals. How can we realize this promise, and what are the advantages and challenges of different approaches?

This webinar will discuss several qubit modalities that are currently being pursued by industry and academia for quantum computing applications. These modalities include superconducting qubits, silicon quantum dots, trapped ions, neutral atoms, photonic qubits, nitrogen vacancy centers, and topological qubits. In addition, the presenter will discuss the promise and challenges of engineering future quantum machines.

This webinar is the first presentation in Hamamatsu's Quantum Technologies Series.



### Who should attend:

All those working in the development, education, and/or implementation of quantum technologies who are seeking an introduction or refresher on quantum hardware. Those who wish to learn about quantum applications currently being addressed and those sought after for the future.

### About the presenter:

William D. Oliver, Ph.D., is jointly appointed associate professor of electrical engineering and computer science and Lincoln Laboratory fellow at the Massachusetts Institute of Technology (MIT). He serves as the director of the Center for Quantum Engineering and as associate director of the Research Laboratory of Electronics. His research interests include the materials growth, fabrication, design, and measurement of superconducting qubits, as well as the development of cryogenic packaging and control electronics. He is a fellow of the American Physical Society and a senior member of the IEEE, and he is appointed to the National Quantum Initiative Advisory Committee.

Oliver also serves on the U.S. Committee for Superconducting Electronics and is an IEEE Applied Superconductivity Conference (ASC) board member. He received his Ph.D. in electrical engineering from Stanford University in 2003.

### About Hamamatsu Corp.:

Hamamatsu Corp. is the North American subsidiary of Hamamatsu Photonics K.K. (Japan), a leading manufacturer of devices for the generation and measurement of infrared, visible, and ultraviolet light. These devices include photodiodes, silicon photomultipliers, photomultiplier tubes, scientific light sources, infrared detectors, photoconductive detectors, and image sensors. The parent company is dedicated to the advancement of photonics through extensive research. This corporate philosophy results in state-of-the-art products that are used throughout the world in scientific, industrial, and commercial applications.

## .: Mark Your Calendar

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**Time: 12:00 PM - 1:00 PM EDT**

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### Operating System

Windows® 7 or later, Mac OS® X 10.9 or later, Linux®, Google Chrome™ OS  
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### Web Browser

Google Chrome™ (most recent 2 versions)  
Mozilla Firefox® (most recent 2 versions)

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iPhone® 4S or later  
iPad® 2 or later  
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