



Hub for Imaging and Quantum Technologies

Applied Physics Laboratory | Krieger School of Arts and Sciences | School of Medicine
Whiting School of Engineering

LEADS:

Dr. Taekjip Ha, *Bloomberg Distinguished Professor of Single-Molecule Biophysics*

Dr. Joan Hoffman, *Program Manager, APL Alternative Computing Paradigms*

Dr. David Kaplan, *Professor of Physics & Astronomy*

Dr. Thomas Kempa, *Professor of Chemistry and of Materials Science and Engineering*

RECRUITING:

4 Bloomberg Distinguished Professors

4 junior faculty

ABOUT THE CLUSTER

The **Hub for Imaging and Quantum Technologies** cluster will establish Johns Hopkins University as a worldwide leader in the area of quantum science and its revolutionary application to technology and fundamental physics. This cluster will recruit scholars who will lead efforts to push beyond current limits of imaging and quantum technologies by developing cutting-edge tools for a wide range of research areas.

Cluster scholar backgrounds may include:

- Quantum devices from materials
- Quantum sensors to understand the planet and universe
- Quantum information
- Biological applications of quantum materials and sensors
- Meta-lenses and flat optics
- Quantum metrology
- *in situ* cryo-electron tomography (cryo-ET)
- Correlated microscopy
- Data science as applied to imaging tools

Team members in this cluster will work within JHU's unique collaborative culture and receive additional administrative and financial support to ensure their interdisciplinary research is truly impactful and world-changing.



The **Bloomberg Distinguished Professorships (BDP) Cluster Initiative at Johns Hopkins University** is part of an ambitious investment in interdisciplinary research to bridge academic disciplines and open novel fields of inquiry to tackle society's most complex problems. Recruiting 130 researchers and scholars, the BDP program was established in 2013 and expanded in 2021 and 2023 with gifts from Michael R. Bloomberg, JHU alumnus and 108th mayor of New York City. Many of these positions are dedicated to the Cluster Initiative to recruit scholars and innovators who will draw on each other's unique strengths to make meaningful impact and generate solutions.

WANT TO LEARN MORE?

We have more detail on this cluster available on our website. You can also sign up for updates on future positions, news, and more.

research.jhu.edu/clusters

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