Postdoctoral Research Fellow
in Theoretical Condensed Matter and Quantum Information Science
at the Laboratory for Physical Sciences, University of Maryland

Applications are being accepted for postdoctoral research fellow positions in quantum information and device theory at the Laboratory for Physical Sciences (LPS) at the University of Maryland-College Park. Demonstrated theoretical expertise in some of the following categories is desired:

- Physics of solid-state quantum devices (e.g., semiconductor, superconducting, superconducting-semiconductors, topological, opto/nano-mechanical systems) with interest toward their use for silicon, superconducting, and topological quantum computing and related technologies.

- General expertise in semiconductor physics, superconductivity, quantum optics, or many-body physics in condensed matter systems.

- Familiarity with concepts in quantum information science such as encoded quantum computing, quantum error correction, algorithms related to the simulation of quantum systems (either digital or analog), or quantum characterization, verification, and validation (e.g., tomography, benchmarking) of qubits.

Applicants should be open to working with experimental groups on problems of practical interest as well as developing novel proposals.

Interested candidates are invited to seek more information or submit an electronic application addressed to Charles Tahan at ctahan@lps.umd.edu. Please include a CV, a summary of research interests, publications list, and the electronic (email) contact details of two references.

The University of Maryland is an Affirmative Action/Equal Opportunity employer and particularly welcomes applications from women and members of minority groups.

QUANTUM COMPUTING AT LPS

The Solid State and Quantum Physics group at LPS consists of both experimentalists and theorists focused on various aspects of solid-state quantum devices, quantum computers, condensed matter theory, and quantum information science.

ABOUT THE LABORATORY FOR PHYSICAL SCIENCES

Located adjacent to the University of Maryland's College Park Campus, the Laboratory for Physical Sciences is a unique facility where university and federal government personnel collaborate on research in advanced communication and computer technologies. The Lab for Physical Sciences is also a member of the Joint Quantum Institute together with NIST and UMD.