Microsoft Station Q

Purdue

Quantum Engineer

Description:
Microsoft Station Q Purdue is looking for scientists enthusiastic about using state of the art materials and measurements to push forward the quantum computing revolution. We are developing the next generation of quantum hardware, based on topologically protected quantum bits. As a quantum engineer at Station Q Purdue, you will be using quantum transport measurement techniques to characterize new semiconductor/superconductor materials and devices. You will work closely with our team around the world to collect and analyze data, screening new materials and devices for eventual use in topological qubits. Your dedication will ensure that the development of new quantum technologies will progress smoothly and that our measurements will continuously improve in quality.

Job Requirements:

- M.S. in physics or electrical engineering with a focus in low temperature device physics
- 2+ years' experience in low-noise, small-signal electrical transport measurements
- Extensive experience with computer programming for instrument control and data analysis, preferably using Python
- Strong organizational and presentation skills
- Positive team mentality and enthusiasm to work in a diverse, international team

Preference will be given to candidates with the following additional qualifications:

- Ph.D. in physics with a focus on quantum transport
- Experience with superconductivity and low-dimensional semiconductors
- Experience with RF reflectometry

The Station Q Purdue lab is located on the Purdue University campus in West Lafayette, Indiana. Quantum Engineers will be hired on approximately 18-month contracts through a 3rd party contractor. The work will provide ample opportunity for collaboration not only with Microsoft, but within our academic group here at Purdue University. More information about Microsoft Station Q Purdue can be found at https://manfragroup.org/. Interested applicants should contact Nik Hartman directly at Nikolaus.Hartman@microsoft.com.