

Microsoft Station Q

Purdue

Quantum Electrical Characterization Engineer (Contracted Position)

Description:

At Microsoft Station Q Purdue, you will be a key member of a world-wide team probing Majorana physics in new materials and devices aimed at building the world's first topological qubit. As a contracted quantum electrical characterization engineer, you will closely work with our materials scientists to carry out the low temperature electrical characterization measurements needed to improve our materials and devices for use as topological qubits. Your work will ensure new quantum materials development will progress rapidly and that our characterization measurements will continuously improve, providing important feedback as we build the quantum technology of tomorrow.

Qualifications:

- Minimum of a master's degree in physics, electrical engineering, or allied field
- 2+ years' experience in low-noise, small-signal electrical transport measurements including I-V of gated devices and Hall mobility/density measurements
- Demonstrated ability to interface computers with measurement hardware
- Experience with the operation and maintenance of cryogenic refrigeration systems
- Strong organizational and presentation skills

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 Python coding and Git version tracking
- Extensive experience operating millikelvin cryogenic systems

More information about Microsoft Station Q Purdue can be found at <https://manfragroup.org/>. Interested applicants should contact Dr. Nikolaus Hartman at Nikolaus.Hartman@microsoft.com.

