Raytheon
BBN Technologies

Research Opportunities
Quantum Information Processing

Our research is on the leading edge of quantum and optical phenomena and information science!

Raytheon BBN's Quantum Information Processing (QuIP) group is an interdisciplinary team of physicists, mathematicians, information theorists, and systems engineers with expertise in superconducting quantum circuits, quantum memory physics, quantum and classical information theory, and classical optical networking.

The QuIP group's research is enabling vertically integrated, next generation quantum enhanced sensing, scalable quantum communications, and quantum computing technology and systems, from the physical layer, to component level, to applications. Our projects are committed to the goal of engineered systems which harness novel quantum phenomena for massive improvements in performance or fundamentally new capabilities.

We are seeking to hire talented scientists and engineers with Quantum Information Processing interests and experience for the following positions –

Superconducting Digital Logic Physicist/Engineer

Seeking a qualified Physicist/Engineer with a PhD (or equivalent training) and experience designing sophisticated experiments with superconducting circuits. The candidate will join a highly entrepreneurial group advancing computation and communications technology by exploring quantum and optical phenomena. The candidate will support experimental efforts in superconducting digital electronics

Quantum Computing Experimental Physicist

Seeking a qualified Experimental Physicist with experience performing sophisticated experiments in quantum information processing. The candidate will join a highly entrepreneurial group advancing computation and communications technology by exploring quantum and optical phenomena. The candidate will support experimental efforts in superconducting quantum computing

Quantum Information and Computer Science

Seeking candidates with interest and expertise in quantum
information science topics such as fault-tolerant quantum computation, quantum control and quantum estimation. A research interest in quantum error correction using topological codes is desirable

Quantum Physical Systems Theorist

Seeking a theorist with a strong expertise in modeling linear and non-linear physical systems, with applications to quantum-limited information processing in optical, microwave, and qubit systems. Of special interest are experience with atmospheric modeling for optical communication and stand-off passive and active optical imaging systems

You can learn more about the QIP team at http://bbn.com/technology/quantum and their opportunities by visiting www.bbn.com/careers and select the Quantum department to see all openings and apply directly.

Members of the QIP engineering staff and our talent acquisition team will be onsite at the 2014 Applied Superconductivity Conference on August 11, 12 and 13. If you would like to speak with team members about our openings please apply directly to position you are most interested in and contact David Jeffries, Manager Recruiting, at djeffries@bbn.com to arrange a meeting.