Title: Research Scientist

Job Description

Quantum computing has the potential to transform the industry by achieving large computational speed-ups over classical computers. Recent advances in quantum technologies have propelled quantum computing from a theoretical physics field to experimental physics and engineering. Numerous quantum algorithms have been proposed in areas including cryptography, chemistry, and materials science.

The position is part of a small Intel Labs team exploring the potential of quantum computing initially in the fields of quantum chemistry/materials and the implications for future quantum computer architecture. The Research Scientist will:

* Identify specific quantum chemistry/materials application(s) that are realistic for a gate model quantum system
* Optimize and improving quantum algorithms for these applications,
* Collaborate with researchers at universities, research consortia, government agencies and industry thought leaders in order to tap into the latest findings and collaborate on research journal publications.

Qualifications

Minimum Requirements

* PhD in physics, chemistry, or related field.
* Experience in quantum chemistry/materials algorithm research.
* Experience in modeling many-body systems.
* Demonstrated ability to deliver significant results in a multidisciplinary environment.

Preferred Requirements

* Experience using quantum computer compilers.