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**TUNDRA**SYSTEMS GLOBAL LTD.

*Next Frontier of Computing*

## **Looking for Quantum Compiler Engineers to work in the Exciting Field of Quantum Optical Computing**

We are a new startup based in the lovely city of Cardiff, Wales, United Kingdom and will be situated in the City Centre area of Cardiff.

Quantum computing has the potential to transform the industry by achieving large computational speed-ups over classical computers. 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. A challenge for the computer industry is to design and implement a reliable quantum computer architecture that can efficiently execute quantum algorithms on future quantum hardware. Come join us as part of a small TundraSystems team developing a full stack Quantum Computing solution. You will be helping to build the quantum machines of tomorrow.

The Quantum Compiler Engineer Will Be Responsible For

1. Define software compile strategies.
2. Collaborate on developing the programming model for TundraSystems quantum computing platform.
3. Build custom back-end LLVM passes.

### **Qualifications**

Candidate must have a Minimum of Master's Degree in Computer Science, Computer Engineering or a related field a Ph.D. preferred.

+1 year of experience with LLVM compiler infrastructure.

+2 years Knowledge of front-end and back-end compiler techniques.

+3 years Solid knowledge base and experience in the following areas: C or C++programming, algorithm & data structures, compiler theory.

## Preferred Qualifications

1. Knowledge of modern processor instruction set architecture.
2. Basic familiarity with quantum logic operations.
3. Excellent written and verbal communication skills and be able to clearly communicate technical details and concept.
4. Good experience in compiler backends, such as code generation, performance analysis, and code optimization.
5. Track record of analyzing and solving complex technical problems

Please get in touch above with your complete CV and Salary expectations. We plan to foster a great challenging and stimulating working environment that also has a fun element not to get too much of a tedium.