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TUNDRASYSTEMS GLOBAL LTD.

Next Frontier of Computing

Looking for Quantum Devices Specialists

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 Eastern Business Park, St. Mellons, Cardiff.

Our Initial Focus is to develop an All-Optical Quantum Processing CPU Processor.

We are looking to build TWO Streams of Design Teams in a Hardware-Software Co-Design Methodology.

We have a few spots to fill in in the area of **Quantum Devices Specialists** as part of the Design Teams to work from ground up and develop completely novel Quantum Devices in an all-optical medium. We need preferably Doctoral Graduates who have done research in Quantum Transistor designs such as single-photon transistor designs, QuBits implementations, Implementation of Quantum Gates, generation of polarized photon sources etc. Need the strong ability to do cross-domain research and development, and the ability to quickly grasp concepts and ideas from one domain and abstract these and be able to design with them in our problem scenarios. Experienced designers who have worked in the area of superconducting quantum circuits are also welcome to apply, if you are willing to abstract out the superconducting theories and design all-optical solutions with this knowledge. Fundamental knowledge of the field of Quantum Computing is very essential for these roles. Photonics Integrated Circuit design and implementation in Indium Phosphide a rich bonus!

The main stream is the actual microprocessor design and here we seek in addition, Doctoral Graduates who have done research and worked in **some** of these areas -- novel Computing processor Designs, Reconfigurable Systems, Massively Parallel Architectures, Optical Integrated Circuit Design, Optical Devices for Integrated Circuits, Machine Learning Algorithms, Systems and Architectures, Hardware-Firmware Co-design, Efficient Memory systems, Photonics for Integrated Circuits, Fibre-Optical Interconnects, SDM and WDM, Performance and Throughput Computations and not the least – **Quantum Computing** !

The Auxiliary Stream is the Design Automation Support Software Development and in addition requires Doctoral Graduates who have worked in and familiar principally in the Analysis, Modeling, Simulation and Verification of Photonic Integrated Circuits and Photonic components, Traditional High-Density Layout design automation software, traditional high-density IC Simulation and Verification with an eye to working in the Optical Domain. Good Programming skills in Object-oriented methodologies and the Java Eco-System, and Verilog based methodologies.

Please get in touch above with your complete CV and Current Salary 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.