

PhD Position in Experimental Hybrid Quantum Technologies



Atoms coupled to superconducting circuits

Would you like to explore the intriguing world of quantum physics? We are looking for a motivated PhD student to join our team.

Quantum mechanics offers a revolutionary approach to how information is processed, offering unprecedented levels of security through quantum encryption and exponential speed up with quantum computing. A key challenge to exploiting these benefits is the development of the next-generation hardware required for creating networks exploiting light at the single photon level.

This project aims to use laser cooled atoms trapped above superconducting circuits to generate, store and entangle single photons on-chip. As well as providing an exciting test bed to explore fundamental ideas of quantum optics, this represents the first steps to the creation of a quantum analog of a router, an essential building block for scalable quantum networking.

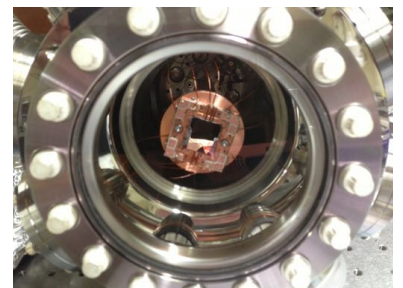
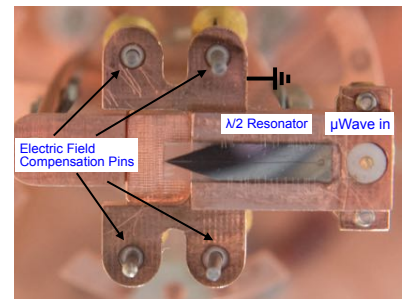
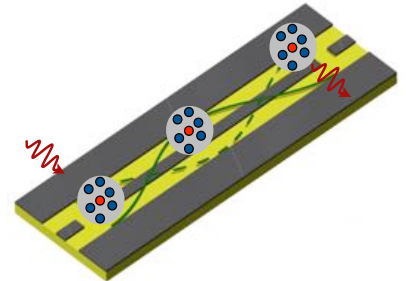
Are you interested in joining us?

Contact us now for further details!

Requirements: MSc/Diploma in Experimental Physics

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Webpage: <http://photonics.phys.strath.ac.uk/>



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