



grant agreement
No 721465

PhD Vacancy

University of
Strathclyde

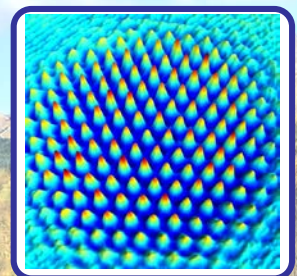


Experimental PhD position in cold atom physics

Self-organized magnetic and density ordering of cold atoms via light mediated interactions

We are seeking a highly qualified and ambitious candidate for a position as an early stage researcher with the aim of a PhD within the framework of the European Training Network ColOpt (Collective effects and optomechanics in ultra-cold matter). For further information see <https://www.colopt.eu/>

The position at the Experimental Quantum Optics and Photonics Group of the Department of Physics of the University of Strathclyde is aimed at the realization of self-organized spin and density ordering of cold atoms. The candidate will explore feedback and cavity schemes in which atomic interactions are mediated via diffracting light fields to establish a new paradigm for simulation of many-body quantum systems. The experimental system is based on a Rb magneto-optical trap.



The research training provided will comprise a broad portfolio of technical and transferable skills training on local and network level. You will attend a series of training workshops through the Network and will be expected to spend up to 6 months working with academic and industrial collaborators in the Network.

We expect

- dedication and enthusiasm for experimental research
- a good Masters degree in physics
- basic knowledge in optics and laser physics
- openness and curiosity

- **Annual salary: about £32500**
- **Open for immediate start (till Dec 2020)**
- **Further information, including important MCSA mobility criteria, and application under**
- <https://strathvacancies.engageats.co.uk/Vacancy 57624>
- **Informal inquiries to Prof. Ackemann: Thorsten.ackemann@strath.ac.uk**

The Group is situated at the heart of Glasgow, a thriving cultural city on the west coast of Scotland and only a short distance from the Scottish Highlands.



<http://photonics.phys.strath.ac.uk/thorsten-ackemann/>