

A QUantum Integrated Light and Matter Interface - experimental postdoc position

Thu, 2012-12-20 08:20 - [Lukas Theussl](#) [1] **At:** MUARC (Midlands Ultracold Atoms Research Centre), University of Nottingham, UK

Deadline: 15 January, 2013

Location

MUARC (Midlands Ultracold Atoms Research Centre) Nottingham United Kingdom
52° 57' 17.2188" N, 1° 9' 29.1924" W

See map: [Google Maps](#) [2]

Applications are invited for a postdoctoral position in experimental cold atom physics and quantum optics at MUARC at the University of Nottingham, Nottingham, UK.

The proposed research is embedded in the recently started European project "QuILMI: A Quantum Integrated Light and Matter Interface" and will contribute to the efforts of the international QuILMI consortium that aims at building and characterising an interface with cold atoms and integrated waveguide structures. Quilmi includes four European partners and is coordinated by the University of Nottingham (I. Lesanovksy). The successful applicant is supposed to assume an important role within the consortium and to contribute actively to the research activities of the ultracold atoms group at the University of Nottingham.

The project will focus on the construction and characterisation of a quantum light and matter interface with cold atoms trapped below a micro-chip surface with integrated waveguide structures. The research will include the creation of a caesium Bose Einstein Condensate, its transport and localisation below the chip and the characterisation of its properties close to a microchip surface. Within the QuILMI project we will aim to couple photons from the microchip to the atomic sample and vice versa. The candidate will work in a team consisting of 3 PhD students and the supervisor and expand the existing experimental system. More details on the project can be found on www.quilmi.eu [3] and www.nottingham.ac.uk/physics/research/coldatomsgroup/homepage.aspx [4]. The highly-motivated candidate should have a track record in experimental atomic physics or quantum optics.

Application procedure: Inquiries should be sent to L. Hackermuller, applications have to be uploaded at <http://www.nottingham.ac.uk/jobs/currentvacancies/ref/SCI1204> [5]. Applications should include a detailed CV, a brief statement of research interests and three names of potential referees. The current call is open until 15th of January, but will be repeated until a suitable candidate is identified.

Contact:

Dr. Lucia Hackermueller

Email: lucia [dot] hackermuller [at] nottingham [dot] ac [dot] uk

www.quilmi.eu [3]

- [Postdoc](#) [6]

Source URL:

<http://qurope.eu/db/jobs/quantum-integrated-light-and-matter-interface-%C2%AD-experimental-postdoc-position>

Links:

[1] <http://qurope.eu/users/ltheussl>

[2] <http://maps.google.co.uk?q=%2C+Nottingham%2C+%2C+uk>

[3] <http://www.quilmi.eu>

[4] <http://www.nottingham.ac.uk/physics/research/coldatomsgroup/homepage.aspx>

[5] <http://www.nottingham.ac.uk/jobs/currentvacancies/ref/SCI1204>

[6] <http://qurope.eu/db/jobs/type/postdoc>