

x5 posts within the Centre for Quantum Photonics at University of Bristol working as part of the EPSRC Quantum Hubs

Fri, 2015-08-14 17:00 - [Kimberley Brook](#) [1] **At:** University of Bristol, Centre for Quantum Photonics

Deadline: 13 September, 2015

Location

Centre for Quantum Photonics, University of Bristol Bristol BS8 1FD United Kingdom
Phone: 01173940024
51° 27' 32.508" N, 2° 36' 5.5224" W
See map: [Google Maps](#) [2]

The [Centre for Quantum Photonics \(CQP\)](#) [3] and the newly established [Quantum Engineering Technology Labs \(QET Labs\)](#) [4] within the University of Bristol are seeking to appoint exceptional individuals for a number of research posts. CQP and the wider QET Labs is a global centre for research, development and entrepreneurship in the emerging quantum technology industry. With world-leading facilities, core expertise in photonic quantum technologies and quantum systems engineering and with over 100 researchers working on cutting-edge research, QET Labs is an international node for collaboration with industrial and academic world leaders, including the EPSRC UK Quantum Technology Hub Network.

CQP is a key partner in two of the EPSRC-funded UK Quantum Technology Hubs, part of a £270M investment by the UK government into quantum technologies. In particular, these are focussed on bringing quantum technologies out of the lab and into the real world. We have 5 research posts currently available as part of the Hubs.

There are three posts for R&D in quantum communications networks as part of the £24M EPSRC-funded Quantum Technologies Hub in Quantum Communications. The aim of the project is the study and application of quantum key distribution (QKD) networks, both across the city of Bristol and the wider UK, and the posts will work closely with Prof Mark Thompson, Prof John Rarity, Prof Dimitra Simeonidou and their teams.

A [Research Assistant/Associate in Quantum Cryptography in Networks](#) [5] will specialise in quantum photonics and have responsibility for working on QKD systems. Ideally with experience in experimental photonics, including the design and implementation of complex optical systems; and knowledge of quantum communications and cryptography systems.

A [Research Hardware Engineer](#) [6] will be responsible for developing and implementing the electronic and software control systems for new technologies deployed in a test-bed network. Experience in RF design, testing, and implementation; electronics engineering and control hardware design in FPGAs, CPLDs, PCB, and/or ASICs; and complex system design and integration is ideal.

A [Research Software Engineer](#) [7] will be responsible for developing and implementing software control, classical processing, and communication and network systems for new technologies deployed in a test-bed network. Experience in software development and engineering, and the development of control software for complex systems; developing real-time network applications managing high data volumes; and delivering high quality, modular, and well documented code is ideal.

There are two [Research Engineer/Physicist in Quantum Enhanced Sensing and Metrology](#) [8] posts as part of the £25M EPSRC-funded Quantum Technologies Hub in Quantum Imaging (QuantIC). Working

closely with Prof John Rarity, Dr Jonathan Matthews and their teams, the successful candidates will have experience in photonics, and will work on engineering sub-shot noise imaging and spectroscopy systems.

For more information about any of the available posts, please click on the links provided which will take you to the full job specification for that position. The closing date for all applications is 23.59 on Sunday 13th September 2015 and it is expected that interviews will take place shortly after the closing date.

- [Postdoc](#) [9]

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Links:

[1] <http://qurope.eu/users/kb13458>

[2] <http://maps.google.co.uk?q=%2C+Bristol%2C+BS8+1FD%2C+uk>

[3] <http://www.bristol.ac.uk/physics/research/quantum/>

[4] <http://www.bristol.ac.uk/physics/research/quantum/qet-labs/>

[5] <http://www.bristol.ac.uk/jobs/find/details.html?nPostingID=3619&nPostingTargetID=13112&option=28&sort=DESC&respnr=1&ID=Q50FK026203F3VBQBV7V77V83&jobNum=ACAD101576&Resultsperpage=10&lg=UK&mask=uobext>

[6] <http://www.bristol.ac.uk/jobs/find/details.html?nPostingID=3617&nPostingTargetID=13108&option=28&sort=DESC&respnr=1&ID=Q50FK026203F3VBQBV7V77V83&jobNum=ACAD101575&Resultsperpage=10&lg=UK&mask=uobext>

[7] <http://www.bristol.ac.uk/jobs/find/details.html?nPostingID=3615&nPostingTargetID=13106&option=28&sort=DESC&respnr=1&ID=Q50FK026203F3VBQBV7V77V83&jobNum=ACAD101574&Resultsperpage=10&lg=UK&mask=uobext>

[8] <http://www.bristol.ac.uk/jobs/find/details.html?nPostingID=3620&nPostingTargetID=13117&option=28&sort=DESC&respnr=1&ID=Q50FK026203F3VBQBV7V77V83&jobNum=ACAD101577&Resultsperpage=10&lg=UK&mask=uobext>

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