

Oxford University Computing Laboratory

Foundational Structures for Quantum Information and Communication Project (QICS)

12 Month Grade 7 Research Assistant Post

Further Details

The Computing Laboratory has a vacancy for a Research Assistant to work on the EU funded research project Foundational Structures for Quantum Information and Communication (QICS) which started on 1st January 2007 and runs until the 31st December 2009.

QICS Project

Details of the project are available from:

http://se10.comlab.ox.ac.uk:8080/FOCS/FP6STREPQICS_en.html

Main Duties and Responsibilities

Main duties for this role will include working under the joint supervision of Prof Samson Abramsky and Dr Bob Coecke on high-level methods for topological quantum computing and, more generally, on categorical quantum axiomatics as specified in the QICS proposal. He/she will also assist in the organisation of QICS events and on QICS reporting.

Selection Criteria

The successful applicant will have many, but not necessarily all, of the following qualifications and skills:

- a doctorate (or be close to completing one) in computer science or a related subject
- broad background both in quantum computing and category theory
- experience with categorical quantum axiomatics and diagrammatic calculi
- experience with high-level methods for quantum computing
- good knowledge of topological quantum computing and modular functors
- experience with more general non-standard quantum computational models
- good communication skills in English;
- ability to work as part of a team in a research community

Salary and Benefits

Salary will be on the University grade 7 scale with a salary of £27,466 p.a). The post is available from 1st September 2008 for a period of one year, is pensionable and includes an annual leave entitlement of 38 days per year, inclusive of public holidays and university closed periods.

Application Procedure

Applications should be in the form of a letter of application (clearly stating the post title) setting out how the candidate meets the selection criteria, and supported by a full curriculum vitae, together with the names and addresses of two referees. These should be emailed (most formats accepted) to job13@comlab.ox.ac.uk or alternatively, posted to: The Administrator, Oxford University Computing Laboratory, Wolfson Building, Parks Road, Oxford, OX1 3QD, to arrive by **Wednesday 11th June 2008**.

Candidates must ask their referees to consider the further particulars and email the reference directly to job13@comlab.ox.ac.uk or, alternatively, post it to the above address (fax (+44 1865 273832) so that references arrive by the closing date.

The policy and practice of the University of Oxford require that all staff are offered equal opportunities within employment. Entry into employment with the University and progression within employment will be determined only by personal merit and the application of criteria which are related to the duties of each particular post and the relevant salary structure. In all cases, ability to perform the job will be the primary consideration. Subject to statutory provisions, no applicant or member of staff will be treated less favourably than another because of his or her age, sex, marital or civil partnership status, sexual orientation, religion or belief, racial group or disability.