



Oxford University Computing Laboratory

Project “Verification of Shared-Memory Concurrent Software”

Grade 07S Post-doctoral Research Assistant Post

Further Details

The Automated Formal Verification Group is offering a post for a Grade 7 Research Assistant to work on the automated verification of concurrent programmes that make use of shared memory under the direction of Daniel Kroening and Joël Ouaknine in the Oxford University Computing Laboratory.

Main Duties and Responsibilities

The role will require the post-holder to undertake innovative research as defined by the project proposal and to work with colleagues to progress the objectives of the project as part of the project team. The exact scope of the research will depend on the skills of the candidates appointed who will be expected to fulfil the selection criteria defined below.

Candidates will be expected to initiate publication of research results in top ranking journals and present research results at leading conferences

Selection Criteria

Essential

Applicants should have (or expect shortly to obtain)

- A doctoral degree in computer science or a closely related discipline;
- Strong programming and systems skills;
- Some experience of tool construction;
- Basic knowledge of programme analysis;
- Publications in areas relevant to this project;
- Good communication skills in English;

Desirable

- Background in theoretical computer science or mathematics.
- Prior experience of programming for the x86 memory model

Salary and Benefits

The post, which is a full time appointment, is available initially for 1 year in the first instance with scope for extension. The post has a salary on the University grade 07 scale (currently £28,983 to £35,646). This includes membership of the University Superannuation Scheme (USS) and has an annual leave entitlement of 38 days per year (inclusive of all public holidays and university closed periods).

Method of Application

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. **Candidates should state clearly which post they are applying for.**

These should preferably be sent by email (most formats accepted) to:

Job19@comlab.ox.ac.uk

or alternatively, posted to: The Administrator, Oxford University Computing Laboratory, Wolfson Building, Parks Road, Oxford OX1 3QD.

Applications should be sent in time to arrive by the closing date of **Friday 14th May 2010**. Applications received after this time may not be considered.

Candidates must also ask their referees to consider these further particulars and email their reference directly to **job19@comlab.ox.ac.uk** or, alternatively, post or fax it to the above address (fax (+44 1865 283532) such that the reference arrives by, or shortly after, 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.

Applicants who would need a work visa if appointed to the post are asked to note that under the UK's new points-based migration system they will need to demonstrate that they have sufficient points, and in particular that:

- they have sufficient English language skills (evidenced by having passed a test in basic English, or coming from a majority English-speaking country, or having taken a degree taught in English)**

and

- (ii) that they have sufficient funds to maintain themselves and any dependants until they receive their first salary payment.**

Further information is available at:

<http://www.ukba.homeoffice.gov.uk/workingintheuk/tier2/generalarrangements/eligibility/>

All data supplied by applicants will be used only for the purposes of determining their suitability for the post and will be held in accordance with the principles of the Data Protection Act 1998 and the University's Data Protection Policy, but if the person appointed to the post is a migrant sponsored under the UK's new points-based migration system, we are required to retain all applications for the duration of the sponsorship