

## **Oxford University Computing Laboratory**

# **“Schema Mappings and Services for Data Integration and Exchange” – A Database Theory project**

## **Postdoctoral Research Assistant Post**

### **Further Particulars**

Oxford University Computing Laboratory (OUCL) has been awarded an EPSRC grant to research the theoretical foundations of Schema Mappings and Services for Data Integration and Exchange. In particular, the semantics and complexity of mappings between database schemas will be investigated; new algorithms for data integration and exchange will be developed, and new methods for delegating data integration and data exchange tasks to Web services will be researched. While the project is predominantly of theoretical nature, it also aims at developing experimental Web services and at implementing and testing new algorithms. The project envisages international co-operations with leading database groups at European and American Universities and at industrial research labs. The project will be directed by Professor Georg Gottlob, and the project staff will part of the newly formed Database Group at the OUCL.

The project, which started in Summer 2007, is scheduled to complete by the end of 2010. The successful applicant will work with a research team within Oxford University and liaise with scientists from other research organisations. The *Selection Criteria* for the post are summarised below.

### ***Selection Criteria***

Applicants should have (or expect shortly to obtain)

- a doctoral degree in computer science, mathematics, or related discipline;
- excellent knowledge of database theory, logic or algorithms;
- strong mathematical skills;
- excellent scientific writing ability;
- publications in the area of database theory, theoretical computer science, graph theory, combinatorics, computational logic, or in a related area;
- good communication skills in English;
- ability and willingness to mentor or supervise doctoral students;
- project management skills.

### ***Salary and Benefits***

Salary will be on the University grade 07S scale (currently £26,666 - £32,796 p.a). The post is available from 1<sup>st</sup> April 2008, is pensionable, includes an annual leave entitlement of 38 days per year inclusive of public holidays and university closed periods, and is tenable for up to two years.

### *Application Procedure*

Applications should be in the form of a letter of application (clearly stating the post title) and setting out how the candidate meets the selection criteria, this should be supported by a full curriculum vitae which includes with the names and addresses of two referees.

The application should be sent by email (most formats accepted) to: [job02@comlab.ox.ac.uk](mailto:job02@comlab.ox.ac.uk)

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

**Applications should be sent in time to arrive by Tuesday 15<sup>th</sup> April 2008. Applications received after this time will not be considered.**

**Candidates must ask their referees to consider the further particulars and email the reference directly to [job02@comlab.ox.ac.uk](mailto:job02@comlab.ox.ac.uk) or alternatively to the above address (fax (+44 1865 283532)) 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.**