

JOB DESCRIPTION

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| Job Title: | Postdoctoral Research Associate |
| Department / Unit: | Department of Computer Science |
| Job type | Part Time, Fixed Term, Professional Services |
| Grade: | RHUL 7 |
| Accountable to: | Dr. Dan O’Keeffe |
| Accountable for: | N/A |
| Purpose of the Post | |
| To be an active member of the department in delivering the research project “Redonda: A Next-Generation State Machine Protocol for Blockchain” so that the overall research objectives of the project are met. The role holder will be expected to produce independent, original contributions to the subject area. | |
| Key Tasks | |
| Systems research <ul style="list-style-type: none"> • Design and implement novel algorithms, protocols and systems in line with the project’s research objectives • Design, analyse and refine appropriate experiments to validate research hypotheses • Identify new avenues and directions for future research. | |
| Writing, publication and presentation for academic audiences To write up research work for publication in disciplinary peer-reviewed academic journals and contribute to their dissemination at national/international conferences. | |
| Building external stakeholder relationships and networks <ul style="list-style-type: none"> • To coordinate relationships and events with research partners and external stakeholders to develop and deliver knowledge exchange towards impact. • Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings. | |
| Impact and dissemination with non-academic audiences <ul style="list-style-type: none"> • To plan and generate impact-focused material to reach and influence non-academic audiences. • Liaise on a regular basis with colleagues and students and build contacts and participate in internal networks for the exchange of information and to form relationships for future collaboration. To contribute to RHUL’s public engagement programme by establishing links with local community groups, industries etc. • Join external networks to share information and ideas. | |

Administrative support

- To provide administrative support to the Principal Investigator and research team, as required, to deliver the project's core aims and objectives.
- To carry out routine administrative tasks associated with the research project/s to ensure that project/s are completed on time and within budget. These might include organisation of project meetings and documentation, financial control, risk assessment of research activities.

Other Duties

The duties listed are not exhaustive and may be varied from time to time as dictated by the changing needs of the University. The post holder will be expected to undertake other duties as appropriate and as requested by their manager.

The post holder may be required to work at any of the locations at which the business of Royal Holloway is conducted.

PERSON SPECIFICATION

Details on the qualifications, experience, skills, knowledge and abilities that are needed to fulfil this role are set out below.

Job Title: Postdoctoral Research Associate

Department: Computer Science

| | Essential | Desirable | Tested by Application Form/Interview/Test |
|--|-----------|-----------|---|
| Knowledge, Education, Qualifications and Training | | | |
| PhD in relevant subject area (or near completion of - it is expected that the appointee will have their PhD awarded within 4 months of the start date) | X | | Application Form |
| Proven knowledge of research techniques and methodologies relevant to distributed systems, systems security and/or systems research | X | | Application Form, Interview |
| Demonstrable comprehensive knowledge in the subject area | X | | Application Form, Interview |
| Knowledge of techniques for formal verification of distributed systems. | | X | Application Form, Interview |
| Skills and Abilities | | | |
| Excellent communication skills | X | | Application Form, Interview |
| Ability to present complex information effectively to a range of audiences | X | | Application Form, Interview |
| Systems programming | X | | Application Form, Interview |
| Experience | | | |
| Evidence of a good quality publication record in publications | X | | Application Form |
| Evidence of contributing to research bids | | X | |
| Practical experience of applying specialist skills and techniques required for the role | | X | Application Form, Interview |
| Other requirements | | | |
| Demonstrable commitment to equality, diversity and inclusion | X | | Interview |