JOB DESCRIPTION

Vacancy Ref: A2711-S

<table>
<thead>
<tr>
<th>Job Title:</th>
<th>Research Associate/Senior Research Associate in Mining Software Repositories (Fixie)</th>
<th>Present Grade: 6/7</th>
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<tbody>
<tr>
<td>Department/College:</td>
<td>School of Computing and Communications</td>
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<tr>
<td>Directly responsible to:</td>
<td>Professor Tracy Hall</td>
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<td>Supervisory responsibility for:</td>
<td>None</td>
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This role will be working within the EPSRC-funded “Fixie: Exploiting Defect Prediction for Automatic Software Repair” project.

Major Duties for both Research Associate and Senior Research Associate roles:

1. Undertaking mining software repositories research. This includes downloading open source project data from Github and analyzing this project data using machine learning techniques. The projects analysed will typically be Java, C++ or Python and so a good working ability to write and understand code is needed.

2. Assist other team members to develop a Java system to generate automatic repairs for predicted defects in code. The system will be based on using a variety of machine learning approaches.

3. Participating in project meetings; preparing and presenting of talks, posters and reports to disseminate the results of the research.

4. Preparing progress reports for project meetings describing the results of the project.

5. Participating in national and international conferences and workshops to present the results of the project to a wider audience and to learn about current advances in the field.

6. Preparing conference and journal papers for publication of project findings.

7. Any other duties appropriate to the grade, as directed by the Principal Investigator or her representative.

Major Duties for Senior Research Associate role:

1. Leading the collaboration, planning, development, and publication of our work within Fixie.

2. Participating in writing new research proposals that build on the expertise developed in this project.