JOB DESCRIPTION
Vacancy Ref: A3498

<table>
<thead>
<tr>
<th>Job Title:</th>
<th>Research Associate</th>
<th>Present Grade:</th>
<th>6P</th>
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<tbody>
<tr>
<td>Department/College:</td>
<td>School of Computing and Communications</td>
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<td>Directly responsible to:</td>
<td>Professor Nicholas Race, Dr Barry Porter, Dr Yehia El Khatib</td>
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<td>Supervisory responsibility for:</td>
<td>None</td>
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Other contacts

Internal:
Other Research Associates and PhD students attached to the project; Staff and Students at the University; colleagues in the School of Computing and Communications

External:
Members of the broader project team at the University of Surrey, the BBC, and other industry project partners, plus the wider international research community

Major Duties:

1. Becoming familiar with the state-of-the-art research in distributed systems & networking, and in associated topics of machine learning, orchestration, and management.
2. Becoming familiar with related topics relevant to the wider project, including object-based media and personalised story-telling.
3. Developing a novel self-adaptive distributed media delivery framework which scales well to thousands of nodes, converges with high probability on a global reward, and can deal with very adaptation large search spaces across the system.
4. Implementing the above solution and performing experiments to compare it against other approaches to demonstrate the range of design points and their impact.
5. Collaborate with academic and industry partners towards the above objectives, including integrating their requirements into your work where appropriate.
6. Participation 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.
7. Preparation of conference and journal papers for publication of project findings.
8. Participation in all project meetings, including the development of progress reports describing and reflecting on progress made in the project.
9. Undertaking personal learning and development, demonstrating ambition and ability to advance.
10. Any other duties appropriate to the grade, as directed by the project Investigators.