**JOB DESCRIPTION**
**Vacancy Ref: A3498**

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| **Job Title:** | Senior Research Associate | **Present Grade:** | 7P |

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| **Department/College:** | School of Computing and Communications |
| **Directly responsible to:** | Professor Nicholas Race, Dr Barry Porter, Dr Yehia El Khatib |
| **Supervisory responsibility for:** | Assisting with supervision of associated Masters and PhD students |

**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. Leading the 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. Take a leading role in identifying funding opportunities and developing project proposals for future funding based on the research area and results of this project.

11. Developing new research directions based on the above work, and carrying those directions through to successful new publications.

12. Any other duties appropriate to the grade, as directed by the project Investigators.