JOB DESCRIPTION

Vacancy Ref: A3413

<table>
<thead>
<tr>
<th>Job Title:</th>
<th>Senior Research Associate – PARIS-DE</th>
<th>Present Grade:</th>
<th>7</th>
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<tbody>
<tr>
<td>Department/College:</td>
<td>School of Computing and Communications (SCC)</td>
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<td>Directly responsible to:</td>
<td>Prof Gordon Blair (PARIS-DE Principle Investigator)</td>
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<td>Supervisory responsibility for:</td>
<td>Assisting with supervision of associated Masters and PhD students</td>
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Other contacts

Internal:
Co-Investigators: Dr Bran Knowles and Dr Kelly Widdicks. Other academic and support staff in SCC and other relevant departments/groups (e.g. Lancaster Environment Centre, the Centre for Global Eco-Innovation).

External:
Other Co-Investigators at the University of Oxford, King’s College London and the University of Sussex, as well as the project collaborators (Small World Consulting) and partners in academia, industry and government. Research funding bodies, professional bodies, media and press office contacts.

Major Duties:

1. Undertake research and development necessary to achieve the goals of PARIS-DE and Lancaster University’s responsibilities within the project.

2. Develop design principles, approaches and tools that enable digital technology to be innovated in line with the Paris Agreement.

3. Enact the resultant design framework by using and combining existing cloud-based services (including notebook technologies) to capture design artefacts and associated evidence around environmental impacts.

4. In collaboration with other team members, apply the framework to three case studies (in the areas of big data and AI, autonomous systems and video streaming), and carry out an assessment of the framework through quantitative and qualitative research methods (e.g. interviews, workshops).

5. Lead the planning, development, and delivery of the research, including working effectively with the broader team to achieve the project goals, also seeking co-design research approaches with partners and impact engagement.

6. Prepare papers, posters and reports to disseminate the results of the research to a variety of audiences, including participation and presentation of results at national and international audiences.

7. Participate in all project meetings, as well as contribute to progress reports of project meetings that describe the results of the project.

8. Participating in (and ultimately taking the lead in) writing of new research proposals that build on prior knowledge and the expertise developed in this project.

9. Through the above, develop an independent and leading research profile internationally.

10. Any other duties appropriate to the grade and position as delegated by your line manager.