

**JOB DESCRIPTION**

**Vacancy Ref: 1401-24**

**Edge AI Hub Grant**

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| **Job Title:** Senior Research Associate – AI Security | **Present Grade:** 7 |
| **Department/College:** School of Computing and Communications |
| **Directly responsible to:** Prof Peter Garraghan |
| **Supervisory responsibility for:**   |
| **Other contacts** |
| **Internal:** Other researchers on the Edge AI Hub Grant; members of the Security Group and SCC |
| **External:** Collaborators in the research field |
| **Major Duties:**You will create new methods and tools to discover, detect, and mitigate ShadowAI cyber attacks originating from the edge. To assist in the delivery of research activities as part of a team, working on an established research programmes in collaboration with colleagues; to input as a team member to administrative activities; to assist where required with relevant teaching and knowledge exchange activities.

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| 1. | Conduct basic and applied research for studying and conducting research within cybersecurity and Artificial Intelligence. |
| 2. | Create new tools and methods for addressing cyber threats from ShadowAI, spanning discovery, detection, and countermeasures. |
| 3. | Develop research objectives and proposals for own or joint research and play a lead role in relation to a specific project/s or part of a broader project, with guidance from senior colleagues as required. |
| 4. | Write up research work for publication, individually or in collaboration with colleagues, and disseminate results as appropriate to the discipline by, for example, peer reviewed journal publications and presentation at conferences. |
| 5. | Plan and manage own workload, with guidance from colleagues as required. |
| 6. | Identify sources of funding and contribute to the securing of funds for research, including drafting grant proposals and planning for future proposals. |
| 7. | Join external networks to share information and ideas, inform the development of research objectives and to identify potential sources of funding. |
| 8. | Engage in regular project meetings, sharing updates on work and collating feedback to ensure research aligns with the industrial partners. |
| 10. | Collaborate with colleagues on the development of knowledge exchange activities by, for example, participating in initiatives which establish research links with industry and influence public policy. |
| 11. | Provide support and mentorship to PhD students within the Principal Investigator’s research group. |

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