**JOB DESCRIPTION**

<table>
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<tr>
<th>Job Title:</th>
<th>Post-Doctoral Research Fellow in the Information Security Group Smart card and IoT Security Centre (SCC)</th>
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<tbody>
<tr>
<td>Department / Unit:</td>
<td>Information Security Department</td>
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<tr>
<td>Job type</td>
<td>Post-Doctoral Research Fellow</td>
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<tr>
<td>Grade</td>
<td>RHUL 7</td>
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<tr>
<td>Accountable to</td>
<td>Prof Konstantinos Markantonakis (PI)</td>
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<tr>
<td>Accountable for</td>
<td>Head of Department</td>
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**Purpose of the Post**

The Information Security Group (ISG) Smart Card and IoT Security Centre (SCC) at Royal Holloway University of London is seeking to appoint a highly motivated postdoctoral research fellow. The successful candidates will join the Smart Card and IoT Security Centre (SCC), supporting its research and commercialization activities. The post is fixed-term, full-time for a period of 24 months, starting July 2023.

The successful applicant will work with Prof Konstantinos Markantonakis and other members of the SCC (Dr Darren Hurley Smith) to generate novel proposals and proofs of concept in the areas of Trustworthy Autonomous Systems. Secure application Execution, Media Broadcasting Security, vulnerability enumeration in multi-sensor systems (environment, traffic and person monitoring systems) and related subjects are key areas in which the candidate should have an interest and willingness to submit funding proposals. The successful candidate will be expected to contribute to all aspects of the research group, enhancing our collaboration with industrial partners and the development and writing of national and international research grant proposals and publish high quality research papers. This post will provide additional opportunities for teaching experience at the successful candidate’s discretion.

Eligible applicants will hold a PhD in Information Security as well as prior experience relevant to one or more of the following research areas: i) Media Broadcasting Security, iii) Trustworthy Autonomous Systems ii) Trusted Execution Environments (TEE), Experience in the development of research grant proposals is essential.

**Key Tasks**

- Lead innovative information security research (specifically in areas i-iii) and co-author high quality collaborative technical reports and research publications.
- To identify, agree and pursue suitable funding opportunities with the SCC Director and Lecturer, and be personally responsible for all practical aspects (with support and guidance from the SCC) of submitting the bids.
- Collaborate with SCC colleagues and students (UG, MSc, PhD) for research, innovation, commercialisation, and impact case studies activities related to information security.
- To engage with members of the research group, and the wider information security scientific community.
- To maintain a high-quality laboratory (SCC) environment, including contributing to the teaching of final year undergraduate and UROP projects.
- To provide ad-hoc support for SCC initiatives, the Digital Catalyst, training events, SCC Open day or other SCC events.
- To write reports for submission to research sponsors.
- To develop presentations for teaching material.
- To present findings to colleagues and at conferences.
- To draft and contribute to publications for submission to refereed journals.
- To attend relevant workshops, conferences, and conference calls, as necessary.
- To take part in the supervision of postgraduate students.
- To take initiatives in the planning of research.
- To promote the reputation of the Group, the Department, and the College to external industry and public events.
- Perform public dissemination of research and project outcomes (e.g. to maintain the SCC web page and SCC social media presence).
- Support the SCC activities, maintaining a pool of resources in the SCC lab and provide support around the organisation of the SCC open day or other group events.
- Contribute to the SCC activities as required by the Smart Card Centre Director or Lecturer that are commensurate with the grade.

**Other Duties**

The duties listed are not exhaustive and may be varied from time to time as dictated by the changing needs of the SCC. The post holder will be expected to undertake other duties as appropriate and as requested by his/her manager. The post holder may be required to work at any of the locations at which the business of Royal Holloway is conducted.

- To undertake appropriate administration tasks
- To attend relevant meetings
- To undertake any necessary training and/or development
- Maintain safe workplace practice and procedures in accordance with the requirements of Health and Safety legislation;
- To observe and comply with all College policies and regulations

**Internal and external relationships**

The following list is not exhaustive, but the post holder will be required to liaise with:

- All members of the SCC.
- Technical, administrative, and academic staff within RHUL.
- External project partners
- The wider scientific community, including for knowledge exchange, commercialisation, and dissemination of scientific advances.