UNIVERSITY OF
SURREY

Research Role Profile	

Job Title:	Research Fellow (1A)

Responsible to:	Head of research Centre, or principal investigator

Responsible for:	Not applicable

Job Summary and Purpose:
To undertake research in accordance with the specified research project(s) under the supervision of the principal investigator.

Main Responsibilities/Activities
To undertake a range of research activities within a specified research area, assuming responsibility for specific areas of projects and making use of new research techniques and methods, in consultation with the research award holder or supervisor. This may include fieldwork, interviews, laboratory experimentation, critical evaluation and interpretation, computer-based data analysis and evaluation or library research.
Using initiative and creativity to identify areas for research develop new research methods and extend the research portfolio. Analysing and interpreting results of own research. Write up results and prepare papers for submission to appropriate journals and conferences, and other outputs as required and/or appropriate. Attend appropriate conferences for the purpose of disseminating research results of personal development. The post holder may also contribute to writing bids for research grants and will contribute to collaborative decision making with colleagues in areas of research.
Continually to update knowledge and develop skills, and translate knowledge of advances in the area into research activity.
To plan and manage own research activity in collaboration with others. To carry out administrative tasks associated with specified research funding, for example risk assessment of research activities, organisation of project meetings and documentation. Implementation of procedures required to ensure accurate and timely formal reporting and financial control.
To contribute to teaching in the Faculty by carrying out student supervision and/or demonstrating within the post holder's area of expertise and under the direct guidance of a member of departmental academic staff, as appropriate.
The post holder may occasionally be required to supervise more junior research staff.

Person Specification

The post holder must have:

A doctoral degree in a relevant discipline (although individuals who have almost completed a doctoral degree may be appointed). Consideration may also be given to individuals who do not hold a doctoral degree but have required skills based on a number of years experience in specified / relevant fields

The post holder will have authority over some aspects of project work and must be capable of providing academic judgement, offering original and creative thoughts and be able to interpret and analyse results.

Relationships and Contacts

Direct responsibility to the principal investigator or academic supervisor. The post holder may be asked to serve on a relevant Faculty committee. There may be additional reporting and liaison responsibilities to external funding bodies or sponsors. The post holder may work on original research tasks with colleagues in other institutions.

Special Requirements

To be available to participate in fieldwork as required by the specified research project

All staff are expected to:

- Positively support equality of opportunity and equity of treatment to colleagues and students in accordance with the University of Surrey Equal Opportunities policy.

- Help maintain a safe working environment by:

  - Attending training in Health and Safety requirements as necessary, both on appointment and as changes in duties and techniques demand

  - Following local codes of safe working practices and the University of Surrey Health and Safety Policy

- Undertake such other duties within the scope of the post as may be requested by your Manager.

Research Role Profile

Addendum to Role Profile

Job Title:	Research Fellow

Job Summary and Purpose:

This information sheet should be read in conjunction with the accompanying generic Research RA1A Role Profile and will be used for shortlisting processes. More specifically the post holder will be expected to:

Design and develop cryptographic protocols for privacy-preserving generation of trust evidence, its distributed storage, provability and verification by third parties

Contribute to the implementation of project's demonstrator software

Publish and present research in high-quality international journals and conferences

Collaborate effectively with other members of the project team and industry and attend project meetings

Pro-actively organise and manage own time and research-related activities

Document project outcomes in reports and presentations; promote the project and research activities (incl. those of SCCS) in national and international forums

Perform any other duties associated with the project, as deemed appropriate to the grade by the supervisor

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Research Role Profile

Person Specification
The post holder must have: A PhD degree (or equivalent) or close to completing a PhD degree in Information Security, Computer Science or other areas related to Cyber Security. Postdoctoral research or industrial experience would be an advantage. All candidates will be expected to have a good understanding of cryptography and distributed systems security.   Preferred qualifications: • Expertise in the design and development of privacy-preserving cryptographic protocols (e.g. zero-knowledge proofs, homomorphic encryption, SMP)   • Experience with one or more general purpose programming languages (incl. but not limited to Java, Python, C/C++), ability to use programming APIs and work with cryptographic libraries   • Experience with development of web applications (incl. browser plug-ins, use of JavaScript) and/or applications using distributed consensus protocols and ledger technologies   The post holder must be capable of providing academic judgement, offering original and creative thoughts and be able to interpret and analyse results.

Relationships and Contacts
Direct responsibility to Dr Mark Manulis and project investigators.