

Research Role Profile

Job Title:	Research Fellow in 6G Networking
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Responsible to:	Head of research group or principal investigator
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Responsible for:	Not applicable
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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
<p>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 laboratory experiments, computer-based simulations, library research, critical evaluation and interpretation.</p> <p>Using initiative and creativity to identify areas for development of new research methods and extend the research portfolio. Analysing and interpreting results of own research. Writing up results and preparing 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 and 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.</p> <p>Continually update technical knowledge and skills, and translate knowledge of advances in the area into the research activity.</p> <p>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.</p> <p>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.</p>

Research Role Profile

Person Specification

The post holder must have:

A PhD degree (or equivalent) or close to completing a PhD degree in Electronic Engineering, or Computer Science. Postdoctoral research or industrial experience would be an advantage.

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

N/A

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 Profile

Job Title:	Research Fellow in 6G Networking
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Job Summary and Purpose:

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

Undertake fundamental research on networking and network management technologies for 6G. The postholder will work in one or more of the following areas:

1. Space-terrestrial network integration for 6G
2. Open 6G service management platform
3. Intent-based management focusing on resilience and service assurance

Main Responsibilities/Activities

- Undertake a range of research activities in the field of 6G networking and network management.
- Publish research outputs in top quartile journals and top international conferences in the field of communications systems; be able to generate IPRs.
- Contribute to the development of research platforms and testbeds and validate theoretical ideas through them.
- Use initiative and creativity to identify areas for development of new research methods and extend the research portfolio in the corresponding field of research.
- Plan and manage own research activity in collaboration with the members of the 5G-6G Innovation Centre.
- Carry out management and administrative tasks associated with specified research funding.
- Co-supervise PhD or MSc students.

Research Role Profile

Person Specification

The post holder must have:

A PhD degree (or equivalent) or close to completing a PhD degree in Computer Science, or Electronic Engineering (Telecommunication). Postdoctoral research or industrial experience would be an advantage.

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.

The post holder must have experience in a selection of the following areas:

- Expertise in mobile networks and architecture design (e.g. 5G)
- Expertise in satellite / UAV networking
- Expertise in Network management and optimisations
- Expertise in AI and game-theory

Essential: very good written and verbal communication skills; very strong skills in C/C++ programming for computer simulations and testbed development.