

### Academic Role Profile

Job Title:	Lecturer B in Network Security
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Responsible to:	Head of ICS/5GIC
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Responsible for:	Research staff employed on programmes and awards directed by the post holder. May have supervisory responsibility for other staff.
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Job Summary and Purpose
To develop a personal research portfolio in line with the Faculty's research strategy, to teach at undergraduate and postgraduate level, and to participate in Faculty administration.

Main Responsibilities/Activities
<p>To support the research activities of the Faculty by:</p> <p>Developing the research activities of the Faculty by sustaining a personal research plan independently and/or in collaboration with others as part of a larger research team.</p> <p>Managing and undertaking research activities in accordance with a specific project plan, and supervising and guiding the work of staff and research students on own specialist area.</p> <p>Developing innovative research proposals (as a self-contained item or as part of a broader programme), identifying sources of funding, submitting funding bids, and gaining positive reviews for these. Planning the research to be undertaken.</p> <p>Publishing original research in appropriate journals or other media, as appropriate.</p> <p>Attending appropriate conferences for the purpose of disseminating research results or for personal development.</p> <p>Sustaining and developing professional expertise and maintaining the requirements for registration with the appropriate body (<i>for academics with clinical links only</i>).</p> <p>To support the teaching objectives of the Faculty by:</p> <p>Developing new teaching methods and designing programme units, and taking responsibility for the quality of programme units.</p> <p>Planning, delivering and critically reviewing a range of teaching and assessment activities including lectures.</p> <p>Training and supervising of students (including research students) and acting as a tutor for</p>

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industrial/professional training year students, according to own area of subject specialism.

Setting/marking programme work, practical sessions, supervisions, fieldwork and examinations according to own area of subject specialism, and providing appropriate feedback to students.

Taking part in activities such as validating and examining in relation to the University's associated institutions.

To undertake pastoral care of students

Using listening, interpersonal and pastoral care skills to deal with sensitive issues concerning students and provide support. Appreciating the needs of individual students and their circumstances. Acting as personal tutor and giving first line support. Referring students as appropriate to services providing further help.

To engage in scholarship by:

Continually updating knowledge and understanding in the field or specialism. Extending, transforming and applying knowledge acquired from scholarship to teaching, research and appropriate external activities.

To contribute to the efficient management and administration of the Faculty by:

Performing such personal administrative duties throughout the Faculty as are recognised by the University as properly within the remit of the work of academic staff, as allocated by the Head of Faculty. Such duties may include Faculty co-ordinating roles, for example, running the process of admissions, examinations or teaching quality assessment.

Advising, supervising and giving guidance to other staff

### Person Specification

The post holder must have:

An honours degree or an appropriate and equivalent professional qualification in a relevant subject

Normally a doctoral degree

Normally former experience of working as a lecturer

Evidence of administrative and organisational skills

Evidence of current research/scholarship at post-doctoral level or equivalent

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### Relationships and Contacts

The post holder will be a member of such Faculty Committees as may be relevant to their administrative duties, for example Faculty Board of Studies and Examination Board. New appointees will be assigned a senior colleague to guide their development and aid their integration into the Faculty and university. Research priorities will be agreed within the strategic framework of the research theme of which they are a member. Teaching and administrative duties will be allocated by the Head of Faculty, within the context of the teaching programmes agreed by the Faculty Learning and Teaching Committee or similar body.

### Special Requirements

To be able to participate in residential field work, in the UK or overseas, according to own area of subject specialism.

The post holder is expected to work outside normal office hours as necessary.

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.

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### Addendum

This document provides additional information relating to both specific aspects of the post/Faculty and any post specific person specification criteria. The information contained within this document should always be read in conjunction with the accompanying generic Job Purpose.

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### Background Information/Relationships

#### Faculty:

The University of Surrey is organised into three Faculties. The Faculty of Engineering and Physical Sciences (FEPS) comprises the Departments of Chemical and Process Engineering, Civil and Environmental Engineering, Computer Science, Electronic Engineering, Mathematics, Mechanical Engineering Sciences and Physics alongside the Centre for Environmental Strategy. All departments have a strong reputation for excellence in research and teaching, allied to a strong enterprise culture and an unrivalled record of graduate employment. Our members of academic staff are well respected, both nationally and internationally, amongst the many areas of academia and industry with which we interact. We believe strongly in the principle that a university should contribute to the cultural wealth of society by developing the basic sciences, whilst also developing the technology which will improve our overall quality of life.

#### ICS and EEE Department:

Institute for Communication Systems (ICS) and 5G Innovation Centre (5GIC) are within the Department of Electronic and Electrical Engineering (EEE). ICS has around 18 FTE academic staff and about more than 170 PhD, Postdocs. ICS research covers all aspects of Communication networks and systems. The communication systems range from Mobile communications, Satellite communications and broadcasting, Internet of Things, Connected Cars and Internet with extensive research on radio, antenna, propagation, MIMO, Core Network architectures and protocols. 5GIC is within ICS and is the world's first dedicated 5G centre on end to end aspects of future 5G system. ICS/5GIC enjoys close collaboration with industry in the UK, Europe and the rest of the world. 5GIC has developed many technologies including completely virtualised and programmable core network, massive MIMO base station and in addition to theoretical and fundamental research carried experimental research in 4km square open testbed on campus. ICS labs are equipped with state of the arts equipment and computing for research and proof of concepts for all aspects of a communication system.

The successful candidate will have a very good research track record in mobile networks in general and/or ideally specifically in mobile Network security.

The post holder is expected to complement our existing internationally recognised strengths in communication networking. The appointee will have the enthusiasm to work collaboratively within a team, as well as with other partners within the University and internationally with academia and industry. The post holder will also contribute to the building of new industrial and other research collaborations, to extend our existing excellent links with partners.

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### Person Specification

This section describes the sum total of knowledge, experience & competence required by the post holder that is necessary for standard acceptable performance in carrying out this role. This is in addition to the criteria contained within the accompanying generic Job Purpose.

	Essential/ Desirable
A higher research degree (PhD) or equivalent research/industry experience	E
Excellent research performance (continuing publication record, and evidence of actual/potential ability in external research grant income generation)	E
Ability to successfully supervise research degree students	D
Evidence of high quality teaching	E
Experience of working in industrial and/or academic collaborations	D
Evidence of scholarly contributions to conferences, professional meetings and societies, and evidence of achievements in other external activities	E
Excellent communication, inter-personal and networking skills	E
Experience of working collaboratively in a team	E

### Key Responsibilities

This document is not designed to be a list of all tasks undertaken but an outline record of any faculty/post specific responsibilities (5 to 8 maximum). This should be read in conjunction with those contained within the accompanying generic Job Purpose.

1. Make a positive contribution to the Faculty's strong research profile
  2. Contribute to research collaborations with industry and academia
  3. Make a positive contribution to appropriate postgraduate and undergraduate teaching programmes, for example in data science
- N.B. The above list is not exhaustive.