

## Research Role Profile

<b>Job Title:</b>	Research Fellow A
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<b>Responsible to:</b>	Head of research group, or principal investigator
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<b>Responsible for:</b>	Not applicable
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<b>Job Summary and Purpose:</b>
To undertake research in accordance with the specified research project(s) under the supervision of the principal investigator.

<b>Main Responsibilities/Activities</b>
<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 fieldwork, interviews, laboratory experimentation, critical evaluation and interpretation, computer-based data analysis and evaluation or library research.</p> <p>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.</p> <p>Continually to update knowledge and develop skills, and translate knowledge of advances in the area into 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.</p> <p>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 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.

#### Addendum to Role Profile

**Job Title:**

Research Fellow (1A)

**Job Summary and Purpose:**

## Research Role Profile

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:

We are seeking a highly motivated Research Fellow wishing to advance their career in a research-driven, interdisciplinary environment, beginning 1 April 2024 or soon after, for 24 months. The Fellow will support the Dr Lirong Liu in delivering the UKRI funded project Energy Demand Research Centre. The project offers an excellent opportunity to develop research expertise in a collaborative project by working with an interdisciplinary team involving diverse partners.

The Research Fellow will carry out research for the project in Equity theme that is finding out how different energy demand solutions can deliver an affordable, clean and more equitable net zero energy system. You will focus predominantly on develop an energy-demand focused optimisation model with the equity maximisation as the objective function and apply this model for examples of communities. You will use AI techniques to address the multi-objective and diverse challenges. Your work will also include literature reviews, data analysis, writing reports, supporting project management, as well as liaising with team members (external and internal). UK and international travel may be required.

The successful candidate will have a PhD in Power and Energy system, Environment, Sustainability or a related discipline, data analysis skills, and ideally have some expertise in AI skills.

For further information, contact Dr Lirong Liu at [lirong.liu@surrey.ac.uk](mailto:lirong.liu@surrey.ac.uk)

Please submit your CV and a covering letter with your application.

### Main Responsibilities/Activities

To assume responsibilities for specified areas of the project in consultation with the project PI;

To identify potential opportunities for further research and expand the research portfolio;

To write up and prepare papers for journal publication, and/or conference presentation and attend conferences where appropriate for dissemination of project outcomes;

To supervise occasionally junior staff or research students.

### Person Specification

#### The post holder must have:

A doctoral degree or have submitted a thesis for examination of the PhD award but the outcome is awaited;

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.

## Research Role Profile

**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.