

Research Role Profile

Job Title:	Research Fellow A
Responsible to:	Head of research group, 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	
<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>	

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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.

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Addendum to Role Profile

Job Title:

Research Fellow in Life Cycle Assessment (LCA)

Job Summary and Purpose:

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

- Development, implementation, and assessment of product sustainability
- Co-supervision of students and researchers
- Co-leading the projects/deliverables

Main Responsibilities/Activities

- Reviewing the literature and keeping up to date on state of the art in the field
 - Development, implementation, and assessment of product sustainability
 - Engaging with relevant literature from environmental science to identify and adopt useful concepts, methods, and models
 - Continuous liaisons with the other participants of the consortium to help ensure the successful attainment of project goals
 - Interacting with automotive manufacturers, to consider industrial needs when deciding what simulated test cases and research questions to prioritize
 - Reporting key results back to manufacturers on time to maximize research impact
 - To present the research results to the other project participants
 - Deliverable report writing
 - To prepare high-quality conference and journal papers
 - To contribute to the training of postgraduate students, where appropriate, including assisting with the co-supervision of projects in areas relevant to the project.
 - Co-supervising of researchers
- These duties provide a framework for the post and should not be regarded as a final list. Other reasonable duties may be required consistent with the grade of the post.

Person Specification
The post holder must have:

- Ph.D. degree in environmental engineering
- strong background in environmental engineering
- experience in Life Cycle Assessment (LCA) modelling (specifically fuel cells, batteries, photovoltaic (PV) technologies, materials and devices)
- experience in environmental impacts of building, station or vehicle integration of PV technologies.
- knowledge of electric vehicles, energy systems, and their components.
- understanding of product sustainability (specifically solar panel, batteries, vehicles)
- familiarity with air pollution from transportation, such as greenhouse gas emissions, particulate matter.
- understanding of collecting data and inventory modelling
- understanding and interpreting of environmental impacts (resource depletion, emissions etc.)
- experience in LCA tools (Simapro, OpenLCA etc.)
- experience in LCA methodologies and ISO 14040/14044 standards.

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- experience in data analysis, and interpretation of results
- capable of providing academic judgment, offering original and innovative thoughts
- good analytical and problem-solving skills
- strong research and analytical skills
- scientific ambition with motivation and a strong interest in cutting-edge research
- good time management and planning skills with the ability to meet tight deadlines
- good written and verbal communication skills
- a strong commitment to your continuous professional development
- a proven ability to work well both independently and as a part of a larger team of researchers within the project

Solid understanding and experience in (one or more of) the following areas are additional advantages:

- A research publication record in the related field
- A knowledge of the automotive industry
- Operating mechanisms of research projects
- Co-Supervision of individual projects

Priority is given to candidates who are available to commence work immediately.

Relationships and Contacts

- Work with the project PI and other researchers within the project
- Collaborate with consortium partners
- The co-supervision of B.Sc., M.Sc. and Ph.D. students