

Job Title:	Research Fellow (RA1)
-------------------	-----------------------

Responsible to:	Head of research group, or principal investigator
------------------------	---

Responsible for:	Responsibility for staff within own research group
-------------------------	--

Job Summary and Purpose
To deliver research in accordance with the specified research project.

Main Responsibilities/Activities
<p>To contribute to the development of the research of the Faculty, by planning and carrying out research activity within a specified area, often in collaboration with colleagues.</p> <p>To take a significant role in planning, co-ordinating and implementing research programmes and, where appropriate, commercial and consultancy activities. To take lead responsibility for a small research project or identified parts of a large project. This may include planning fieldwork, data analysis and evaluation and laboratory experimentation. To make decisions about research programmes and methodologies, often in collaboration with colleagues, and to resolve the problems of meeting research objectives and deadlines.</p> <p>To develop new concepts and ideas to extend intellectual understanding. Assess, interpret and evaluate the outcomes of research, and develop ideas for the application of research outcomes. To take a role in the regular publication of results in appropriate journals, in giving presentations at national and/or international conferences, and in other outputs as required and/or appropriate.</p> <p>Continually to update knowledge and develop skills. To extend, transform and apply knowledge acquired from scholarship to research and appropriate external activities.</p> <p>To carry out management and administrative tasks associated with specified research funding, including managing and developing staff within their projects; risk assessment of project activities; organisation of project meetings and documentation; management of resources, preparation of annual reports, and management or monitoring of research budgets. To oversee and implement procedures required to ensure accurate and timely formal reporting and financial control.</p> <p>To undertake liaison with external organisations including equipment manufacturers, steering committees, associated academic facilities and commercial users.</p>

Person Specification

The post holder must have:

Normally a doctoral degree in a relevant discipline, together with appropriate experience of working in a similar area of work.

The post holder will need to demonstrate a high level of competence and independent standing in research by being nationally recognised within their area of discipline, publishing regularly in recognised appropriate journals and attracting research funding for their own work or for other staff within the research group.

Relationships and Contacts

The post holder may have a key responsibility to the principal investigator, with prime responsibility for reporting and liaison with external funding bodies or sponsors. The post holder will also supervise the activities of PhD students and technician staff within the particular research group

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.

Job Title:	Research Fellow (1A)
------------	----------------------

Job Summary and Purpose:
<p><u>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:</u></p> <ul style="list-style-type: none">• Develop, implement and assess controllers and state estimators for next generation electric vehicles

Main Responsibilities/Activities
<ul style="list-style-type: none">• Development and assessment of wheel slip controllers, energy management systems, anti-jerk controllers and vehicle dynamics controllers• Continuous liaisons with the other project participants• To present the research results to the other project participants• To prepare the deliverable reports• To prepare conference and journal papers

Person Specification
<p>The post holder must have:</p> <ul style="list-style-type: none">• A PhD degree on a suitable subject (e.g., Mechanical Engineering, Automotive Engineering, Control Systems Engineering, Electrical Engineering)• Understanding of vehicle dynamics and vehicle dynamics control• Understanding of wheel slip control• Understanding of energy management

Relationships and Contacts
<ul style="list-style-type: none">• Experience of collaborative research projects• Good presentation skills• Good writing skills