

Research Role Profile

Job Title:	Research Fellow A
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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 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.

Research Role Profile

Addendum to Role Profile

Job Title: Research Fellow in Spacecraft Materials Ageing	Research Fellow (1A)
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Job Summary and Purpose:

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:

The Faculty of Engineering and Physical Sciences at the University of Surrey is seeking to recruit a full-time researcher to the project: "Assessment of long term performance of CFRP-based folding antenna structures in the LEO environment", funded by the Defence and Security Accelerator (DASA).

The successful candidate will assist in the characterisation of the ageing of various carbon fibre reinforced polymer (CFRP) types through experimental processes, and use their understanding of materials science to identify the underlying mechanisms and generate an appropriate test protocol for other researchers to use in future.

Main Responsibilities/Activities

The Research Fellow's role will be to undertake the majority of the experimental work (in collaboration with the University technical staff). This includes the use of vacuum equipment and VUV lamps to simulate the ageing effects of space on the polymeric components of the CFRP, and to carry out the subsequent analysis, including surface roughness, mechanical testing, and surface chemistry (XPS + ToF-SIMS, ATR-FTIR). The Research Fellow will also assist in reporting to the sponsor, and disseminate the results at conferences and in academic journals.

Research Role Profile

Person Specification

The post holder must have:

We are looking for applicants who hold, or are near completion of, a PhD in a relevant subject. (Relevant professional experience may be considered.) The successful applicant will demonstrate experience and knowledge of at least one of the following areas:

- Vacuum and plasma equipment
- Surface chemistry of polymers
- Ageing mechanisms in polymers

Candidates with experience with using vacuum equipment and generating low pressure plasmas (such as space propulsion researchers) are likely to have many of the skills required, and are encouraged to apply.

Relationships and Contacts

In addition to supporting the research project with internal and external collaborators, the position will serve as a platform for the Research Fellow to develop their career and profile as an independent researcher.

The successful candidate will work under the supervision of Dr Andrew Viquerat in the School of Mechanical Engineering Sciences. Please note that appointment to the position will be subject to approval by Dstl as a research worker.

For informal enquiries please contact Dr Andrew Viquerat at a.viquerat@surrey.ac.uk or +44(0)1483 68 6267.