

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 (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:

Support a programme of applied and fundamental low-energy nuclear physics, funded under a UKRI Future Leaders Fellowship award. The fundamental programme of work will employ Coulomb-excitation and transfer reactions, making use of high-resolution gamma-ray spectrometers and their associated ancillary devices. The position will involve work with stable and radioactive rare isotope beams at laboratories including the Facility for Rare Isotope Beams (FRIB) and Argonne National Laboratory. The candidate will also be involved in applied nuclear physics, such as the development of novel-detector technologies for energy and security, and the measurement of decay properties for nuclear medicine.

Main Responsibilities/Activities

Analyse experimental data acquired from particle and gamma-ray spectroscopy.

Disseminate results at conferences and through publication in peer-reviewed journals.

Participate in setting up and performing experiments at a number of international facilities.

Participate in in-house detector testing and characterisation.

Person Specification

Research Role Profile

The post holder must have:

A PhD in experimental nuclear physics

A proven track record of contributions in nuclear physics.

Experience with data analysis using software such as the ROOT analysis packages would be an advantage.

Experience performing and analysing experiments with gamma-ray and charged-particle spectroscopy would be an advantage.

Relationships and Contacts

Informal enquiries can be made to Dr. Jack Henderson (jack.henderson@surrey.ac.uk).