

Research Role Profile

Job Title:	Research Liaison Fellow A in Ion beam technologies
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Responsible to:	Head of Implant, or Director Prof Satheesh Krishnamurthy
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Responsible for:	Not applicable
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Job Summary and Purpose:
To undertake research, liaising with new and existing customers, and participate and or lead Quality Assurance under the supervision of the principal investigator or head of ion implantation

Main Responsibilities/Activities
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 laboratory-based experiments, irradiation and implantation studies, data analysis, and evaluation using advanced instrumentation and computational tools. Use initiative and creativity to identify areas for research, develop new experimental methods, and contribute to the expansion of the Centre's research portfolio. Analyse and interpret results from experiments and user projects, preparing high-quality reports, technical documentation, and manuscripts for submission to peer-reviewed journals and conferences. 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. Continually to update knowledge and develop skills and translate knowledge of advances in the area into research activity. 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, quality assurance, organisation of project meetings and documentation. Implementation of procedures required to ensure accurate and timely formal reporting and financial control. To contribute to 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. The post holder may occasionally be required to supervise more junior research staff

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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

This document provides additional information relating to both specific aspects of the post/faculty and any post specific person specification criteria. The information contained within this document should always be read in conjunction with the accompanying generic Job Purpose.

Job Title:

Research Liaison fellow in Ion beam technologies

Background Information/Relationships

The Surrey Ion Beam Centre (IBC) is a world-leading national facility specialising in ion implantation and ion beam analysis, supporting both academic and industrial research across a wide range of disciplines — from semiconductor device fabrication to advanced materials engineering. As part of the UK National Ion Beam Centre, it provides open access to state-of-the-art ion beam systems and expertise, enabling users to undertake cutting-edge experiments at the atomic scale.

The Research Liaison Fellow will work closely with the Head of ion implantation, Head of Ion Beam Processing, Facility Liaison Fellows, and other technical and academic staff to deliver and expand the Centre's research capabilities. The role involves frequent interaction with academic users, industrial partners, and funding bodies to identify emerging needs, foster collaborations, and support impactful research.

The post holder will also engage with the wider UK National Ion Beam Centre network (Surrey, Huddersfield, and University of Manchester) and external stakeholders including UKRI, EPSRC, and industry partners. They will play a key role in ensuring that the IBC maintains its position at the forefront of ion beam science and technology, while actively contributing to the Centre's strategic growth and international profile.

Person Specification

This section describes the sum total of knowledge, experience & competence required by the post holder that is necessary for standard acceptable performance in carrying out this role. This is in addition to the criteria contained within the accompanying generic Job Purpose.

Qualifications and Professional Memberships	Essential/ Desirable
A higher research degree (PhD) or equivalent experience in a relevant subject	Essential
Technical Competencies (Experience and Knowledge) This section contains the level of competency required to carry out the role (please refer to the competency framework for clarification where needed and the Job Families Booklet).	Essential/ Desirable
A deep knowledge, understanding and experience of all aspects of ion beam technology.	Essential

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Experience of planning and executing small and medium sized R&D projects	Essential
Clear communicator with ability to develop strong relationships with facility users and suppliers.	Essential
Experience in ion beam modification of systems	Desirable
Special Requirements	Essential/ Desirable
Key Responsibilities This document is not designed to be a list of all tasks undertaken but an outline record of any faculty/post specific responsibilities (5 to 8 maximum). This should be read in conjunction with those contained within the accompanying generic Job Purpose. • Undertake facility-based research and development in ion beam technologies under the supervision of the Principal Investigator or Head of Ion Implantation. • Liaise with new and existing users to understand their research requirements, advise on experimental design, and ensure the effective delivery of user projects. • Operate ion beam and implantation equipment, maintaining high standards of safety, accuracy, and reliability. • Lead and/or participate in the in-house Quality Assurance (QA) programme to ensure consistency, data integrity, and compliance with facility procedures. • Contribute to the optimisation, maintenance, and development of ion beam systems and associated technologies to sustain the Centre's world-leading capabilities. • Prepare and deliver high-quality technical and implantation reports to users, ensuring clarity and completeness of documentation. • Support the dissemination of facility outcomes through journal publications, conference presentations, and technical communications. • Engage with industrial and academic stakeholders to promote the facility's capabilities and contribute to the expansion of the UK National Ion Beam Centre's user base. • Assist with training users, students, and new staff in relevant techniques, systems, and safety practices as required.. N.B. The above list is not exhaustive.	