

## Research Role Profile

<b>Job Title:</b>	Research Fellow (1A)
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<b>Responsible to:</b>	Professor Glenn Parry Also working with Dr Abdolreza Roshani, SBS and Dr Philip Davies, Bristol Business School
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<b>Responsible for:</b>	Not applicable
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<b>Job Summary and Purpose:</b>
To undertake research in accordance with the specified research project(s) under the supervision of the principal investigator.

<b>Main Responsibilities/Activities</b>
<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).

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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### Role Purpose 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 Role Profile.

<b>Job Title:</b>	Short term RA for EPSRC RAMONA project examining supply chain resilience for additive manufacture
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### Background Information/Relationships

**Note: Our project contract ends on 31<sup>st</sup> March 2024, which is the official grant end. We are looking to extend this for a few months, but right now we cannot offer beyond that point.**

We seek a post-doctoral research associate (PDRA) for the Business School with expertise in supply chain, particularly either:

- expertise in multi objective optimisation/mathematical modelling of supply chains
- knowledge of physical unclonable functions [PUFS] for supply chain tracking

Knowledge of one or more of: supply chain, systems engineering, service design, cost modelling, process management, operations management or operations research is beneficial.

The position is part of an EPSRC cross-disciplinary research project titled Responsive Additive Manufacture to Overcome Natural and Attack-based disruption (RAMONA) led by Dr Gregory Gibbons (University of Warwick) with Co-Investigators Professor Parry from Surrey, Dr Philip Davies (Supply Chain - Henley), Prof. Carsten Maple & Dr Greg Epiphaniou (Cyber Security – Warwick), Professor MA Williams (Additive manufacture - Warwick). The University of Surrey and Bristol University Business School are developing the multi-objective optimisation for supply chain disruption theme of the project, with this PDRA supporting the final deliverables of this part of the project. Our previous project RA has taken on a full time role in the school and so will continue to support the work and new person in the position.

### 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 Role Profile.

	<b>Essential/ Desirable</b>
A PhD in Supply Chain Management, Mathematics, Engineering, Operations Research or Computer Science or related subjects to the call as well as a high degree of organisation and ability to plan and manage your own studies are essential. You will need to be able to offer thought	E

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leadership and hit the ground running. A knowledge of mathematical modelling/multi objective optimisation is essential.  (if other subject contact Prof Parry and discuss why you would be suitable)	
Excellent communication skills	E
Ability to work with other disciplines	E
Available to travel to other Universities on the project	E
Have experience of publishing in journals	D
Have experience of collaborative EPSRC projects	D
Experience of some of Business and Management area related to the project – which may include Business, software, Engineering management, the design, manufacture and deployment of technology	D
<b>Special Requirements</b>	<b>Essential/ Desirable</b>
<b>Key Responsibilities</b>	
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 Role Profile.	
<p>The individual will complete two clear goals:</p> <ul style="list-style-type: none"> <li>• Write journal articles on modelling supply chains for AM or aspects of the data/structure/privacy of the prototype solutions, or the use of PUFs in AM, suitable for publication in business, operations management and operations research journals.</li> <li>• Some primary research is required. The core focus of the work can be flexible, towards the candidate's strengths, but must meet the core modelling/optimisations/supply chain aspects of the project. Contact Prof Parry to discuss</li> <li>• Take a lead role in developing work on the multi-objective optimisation for Supply Chain disruption or the application of PUFs in the project.</li> </ul> <p><b>N.B. The above list is not exhaustive.</b></p>	