

## Research Role Profile

<b>Job Title:</b>	Research Fellow A in in Organic and Medicinal Chemistry
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<b>Responsible to:</b>	Head of research group, or principal investigator
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<b>Responsible for:</b>	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**

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.

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.

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, organisation of project meetings and documentation. Implementation of procedures required to ensure accurate and timely formal reporting and financial control.

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.

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.

<b>Job Title:</b>	Postdoctoral Research Fellow in Organic and Medicinal Chemistry
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The School of Chemistry and Chemical Engineering at the University of Surrey invites applications for a full-time Postdoctoral Research Fellow position for 24 months specialising in synthetic organic and medicinal chemistry. The successful candidate will join a vibrant research team focused on developing novel therapies for the treatment of ASS1-deficient tumors

The role involves the synthesis of a number of libraries of small organic molecules and their biological evaluation and offers significant opportunities for interdisciplinary collaboration between chemistry and biological sciences, with the opportunity to learn and develop skills in molecular biology.

Part of the role will also involve assisting in the running of the research group while Professor Dobbs is Head of School. There is also scope within the project to be involved in the supervision of MSc and PhD students and also to develop your own research ideas within the overall themes of the research group.

**Relationships**

The appointee will report to the PI who is also the Head of School and, indirectly to collaborators in the School of Biosciences who will be involved in the biological evaluation and testing. They will also work closely with a number of PhD students who are also involved in the project.

**Background Information/Relationships****School of Chemistry and Chemical Engineering**

Established in 2022, the School of Chemistry and Chemical Engineering (SCCE) brings together approximately 45 academic staff working at the forefront of both chemistry and chemical engineering into a cohesive unit addressing global challenges. The School possesses expertise across a wide range of disciplines, including organic and inorganic synthesis, medicinal chemistry, electrochemistry, and analytical chemistry, as well as process engineering, modelling, pharmaceutical and formulation technologies, energy, and pharmaceutical sciences. SCCE benefits from state-of-the-art research, teaching, and analytical laboratories and facilities, including its own award-winning pilot plant. Student satisfaction is consistently high, and the School contributed to two Units of Assessment (UoAs) in REF2021. The School collaborates extensively with colleagues across the Faculty of Engineering and Physical Sciences and the Faculty of Health and Medical Sciences.

**Faculty of Engineering and Physical Sciences**

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The University of Surrey is organised into three faculties: Engineering and Physical Sciences (FEPS), Health and Medical Sciences (FHMS), and Arts, Business and Social Sciences (FABSS). FEPS comprises four Schools: Chemistry and Chemical Engineering; Computer Science and Electronic Engineering; Mathematics and Physics; Engineering. Each School has a strong reputation for excellence in both research and teaching, underpinned by a robust enterprise culture and an exceptional graduate employment record. Academic staff are highly respected nationally and internationally across academia and industry.

### 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.

	<b>Essential/ Desirable</b>
A higher research degree (PhD)	E
Evidence of high quality academic publications/evidence of independent publications (depending upon experience)	E/D
A proven track record in successfully supervising or collaborating in supervising undergraduate and PhD students	E
Experience in molecular biology techniques (e.g. MTT assays)	D
Evidence of scholarly contributions to conferences, professional meetings and societies at an international level, and evidence of achievements in other external activities at an international level	E

### 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.

1. Synthesis of a range of target compounds for biological evaluation, including amino acid and peptide chemistry and transition metal chemistry.
2. Development of novel synthetic routes to complex targets plus compound purification and structural identification.
3. Liaise with collaborators within the School of Biosciences over delivery of compounds in a timely manner and their biological evaluation. Assist in the biological evaluation.
4. Assist in the running of the research group while the PI is acting as Head of School.
5. Assist in the supervision of MSc and PhD students.

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**N.B. The above list is not exhaustive.**