

Job Title:	Research Fellow A
Responsible to:	Dr Kalliopi Kousi
Responsible for:	Not applicable
Job Summary and Purpose:	
To undertake research in accordance with the specified research project(s) under the supervision of Dr Kalliopi Kousi	
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, conferences, and other outputs as required and/or appropriate. Attend relevant meetings and conferences for the purpose of disseminating research results on personal development. Continually update knowledge, 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. The post holder may occasionally be required to supervise more junior research staff.	

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. 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.

Addendum to Role Profile

Role Purpose Addendum:	Research Fellow in Materials for thermocatalytic CO ₂ conversion
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Job Summary and Purpose: <u>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:</u> Become a research team member in the Energy and Materials group in the School of Chemistry and Chemical Engineering. The project's focus is to help upscale inorganic catalysts for the production of light hydrocarbons from CO₂. This project is funded by HEIF and Innovate Surrey.

Main Responsibilities/Activities The candidate will: • Synthesise, characterise and catalytically test exsolved copper based catalysts. Materials are not expected to be new, the post is required to upscale an existing concept. • Perform critical analysis of the results and report to supervisors regular updates, perform extensive literature review to keep up-to-date with the research progress in the field, and write scientific papers for publications. • Assist in the production of intellectual property and/or high-impact papers for the benefit of both team members and the University of Surrey. • Assist with the supervision of students in the group (postgraduate, undergraduate, and overseas visitors).
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Person Specification The post holder must have: Essential • A PhD (or close to submission) in Chemistry, Chemical Engineering, Material Science. • Direct research experience in synthesis of inorganic catalysts and characterisation. • Prior experience in Catalytic testing Desirable • Prior experience in LCA and TEA

Relationships and Contacts

The post holder will be led by Dr Kalliopi Kousi and will be expected to work with other members of the team to move this project forwards.