

## Candidate Information

<b>Position:</b>	Research Fellow
<b>School/Department:</b>	School of Chemistry and Chemical Engineering
<b>Reference:</b>	24/111870
<b>Closing Date:</b>	Monday 20 May 2024
<b>Salary:</b>	£37,841 per annum
<b>Anticipated Interview Date:</b>	Wednesday 6 June 2024
<b>Duration:</b>	Full Time, Fixed Term position available for 21.5 months

### JOB PURPOSE:

To be a highly productive, ambitious and collaborative member of the James group research team, assisting in the development of research proposals and the planning and delivery of the research activity specifically the development of porous liquids in which interaction with water is a critical aspect.

The post is a critical role, and as such, successful applicants will have responsibilities in independent research, supervision, planning, day to day lab management and maintaining and developing collaborations.

### MAJOR DUTIES:

1. Undertake research under supervision within a specific research project or as a member of a research team.
2. Design, develop and refine research using a range of experimental methods (materials synthesis, characterisation and evaluation).
3. Carry out analyses, critical evaluations, and interpretations of experimental data and the literature using methodologies and other techniques appropriate to area of research.
4. Produce high quality research outputs consistent with project aims and commensurate with career stage. This will include collaborating and co-authoring with PI and project team as well as other research groups on outputs.
5. In consultation with the project team, promote research milestones and outputs at national and international conferences.
6. Assist grant holder in the preparation of funding proposals and applications to external bodies.
7. Carry out occasional educational supervision, demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.
8. Undertake supplementary duties relevant to the success of the project including administrative duties and additional training and development activities as required.

### ESSENTIAL CRITERIA:

1. Have or be about to obtain a PhD in Chemistry or closely-related discipline (NB 'About to obtain' is normally defined as within 3 months of application date).
2. Specific, relevant research experience to include a proven track record with regard to:
  - Research in the area of porous liquids especially with regard to aqueous systems.
  - Using experimental methods to carry out synthesis, analyses, critical evaluations, and interpretations of experimental data as relevant to the research project, in particular synthesis of porous materials through traditional and mechanochemical means, characterisation of surface areas, porosities, measurement of gas solubilities etc.
  - Working effectively as part of a research team in the development and promotion of the research theme.
  - Strong publication record commensurate with stage of career.
3. Ability to contribute to broader management and administrative processes.
4. Practical problem solving skills, independence of thought and initiative.
5. Ability to assess and organise resources.
6. Demonstrable ability to communicate complex information in English effectively in oral and written format.
7. Ability to build relationships to develop internal and external networks.

8. Commitment to continuous professional development.
9. Must be able to travel to USA and Ireland for research collaborations.

**DESIRABLE CRITERIA:**

1. Experience of joint research projects with other research groups in the UK and elsewhere.