

<b>Job Title</b>	Research Fellow in Chemical Engineering
<b>School/Department</b>	Department of Chemical and Environmental Engineering
<b>Job Family and Level</b>	UNNC Scale A Level 4
<b>Contract Status</b>	Full-Time, outsourced contract for three years
<b>Location</b>	University of Nottingham Ningbo China
<b>Hours of Work</b>	Regular working hours
<b>Responsible to</b>	Dr Moses Solomon, Principal Investigator (PI) of the Research

## Purpose of role

The purpose of this role will be to assist and support the principal investigator/Moses Solomon's research team in conducting academic research and essential support functions, including literature searches, drafting proposals, translation, conducting surveys, performing analyses and tests, and drafting manuscripts/reports.

	<b>Main responsibilities</b> (Primary accountabilities and responsibilities expected to fulfil the role)	<b>% time per year</b>
1	To take the lead on, plan, develop, and conduct individual and/or collaborative research in the area of material chemistry (e.g., corrosion inhibitor, coatings, batteries, supercapacitors, etc) and regularly disseminate and explain research findings through publication in reputable peer-reviewed journal outlets (on a sustained basis), conferences, and other appropriate media	35%
2	To identify opportunities and assist in writing bids for research grant applications. Prepare proposals and applications to both external and/or internal bodies for funding, contractual, or accreditation purposes.	25%
3	To build active relationships and collaboration with internal and external industries/companies, to jointly initiate/execute research projects, and to advance the research activities of the group.	20%
4	To participate in the supervision of Master's and Doctoral students. To manage and ensure the safety of the working laboratory space and environment.	10%
5	To participate in training and staff development events as trainer or trainee as appropriate.	10%



6	UK   CHINA   MALAYSIA To maintain appropriate professional development, expertise and awareness.	
7	To undertake other tasks and responsibilities as may reasonably be required.	

## Person specification

	Essential	Desirable
<b>Skills</b>	<ul style="list-style-type: none"> <li>▪ Excellent oral and written communication skills both in Chinese and English, including the ability to communicate with clarity on complex information.</li> <li>▪ High analytical ability to analyse and illuminate data, interpret reports, evaluate and criticise texts, and bring new insights.</li> <li>▪ Ability to contribute to method improvement.</li> <li>▪ Analytical ability to facilitate conceptual thinking, innovation, and creativity.</li> <li>▪ Ability to build relationships and collaborate with others, internally and externally.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Experience in Corrosion Inhibitors and/or Smart Organic-Based Coatings Technologies</li> <li>▪ Experience in Battery and Supercapacitor Technologies</li> <li>▪ Demonstrates a desire to further develop skills and knowledge of research methods and techniques.</li> </ul>
<b>Knowledge and experience</b>	<ul style="list-style-type: none"> <li>▪ Evidence of sufficient breadth or depth of research methodologies and techniques to work in the research area of chemistry and chemical engineering.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Practical experience in electrochemistry and organic synthesis.</li> <li>▪ Evidence of hands-on experience in the operation of an electrochemical workstation and the analysis of electrochemical data such as EIS, PDP, etc.</li> <li>▪ Evidence of hands-on experience in the design and synthesis of responsive organic coatings.</li> </ul>
<b>Qualifications, certification and training (relevant to role)</b>	<ul style="list-style-type: none"> <li>▪ PhD degree or equivalent in Chemistry, Chemical Engineering, Environmental Engineering</li> </ul>	<ul style="list-style-type: none"> <li>▪ Research fellow experience in the relevant subject area.</li> </ul>
<b>Statutory, legal or special requirements</b>	<ul style="list-style-type: none"> <li>▪ An understanding of regulations and procedure governing laboratory work (including Home Department and Health and Safety) and implications of non-compliance of other staff.</li> </ul>	



## Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

### Valuing people

Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.

### Taking ownership

Is clear on what needs to be done, encouraging others to take ownership. Take action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.

### Forward thinking

Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.

### Professional pride

Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.

### Always inclusive

Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.



Key relationships with others

