UNIVERSITY OF LEICESTER

Job Summary

Job Title: Research Associate
Grade: 7
Salary: £40,704 to £46,970 per annum, pro rata if part-time
Department: School of Engineering (based at MatIC in Cambridge)
Hours/Contract: Full-time or job share, fixed term until 31 July 2027
Job Family: Teaching and Research
Reference: 14205

Role Purpose

To have specific responsibilities with an established research programme. To work collaboratively and independently as part of a research team to achieve defined milestones and produce high quality research as part of a wider programme.

Main Duties and Responsibilities

Research

- To carry out activities of the research project (REUSE) defined by research supervisors at Leicester University.
- To assist in the implementation of the research project (REUSE)
- To interact with project partners and carry out the projects deliverables.
- To demonstrate good research skills and an ability to work both independently and as part of a team.
- To publish research output in high impact, peer-reviewed scientific journals, and to give presentations at relevant workshops and conferences;
- To attend project meetings
- To foster and encourage collaborative research projects between the College of Science and Engineering at the University of Leicester and TWI in the general area of materials
- To enhance the reputation of ULEIC and TWI in a core technical field by individual international reputation, external awareness and innovation, ensuring technology advancement. To promote pro-actively the standing of ULEIC and TWI in the relevant technology area

Administration

- To assist the Supervisor in developing the strategic plan for the research group
- To assist with the activities of the research in the Centre (business planning, centre management, performance management and budget control) in agreement with the Centre Director and Board
- To liaise with TWI and University Research Enterprise teams to develop research & development programmes
- To lead on the development of excellent relationships with key funding partners

Athena Swan Silver Award · Race Equality Charter Bronze Award · disability confident LEADER · LGBT+ 2020 - 2021 AWARDEE ORGANISATION · Stonewall DIVERSITY CHAMPIONS

- To participate in relevant professional activities with the agreement of the University and TWI
- To engage in continuous professional development, for example, through participation in relevant staff development programmes
- To undertake, subject to agreement of the Centre's board, external commitments, which reflect well upon and enhance the reputation of the University
- To ensure compliance with health and safety requirements in all aspects of work
- To interact with, and supervise PhD students undertaking their research at the National Structural Integrity Research Centre (NSIRC) and contribute to the research strands of NSIRC so as to meet its mission. Amongst the aims of NSIRC is to develop a critical mass of research informed by the needs of industry, across the field of structural integrity and to develop novel postgraduate programmes to train the next generation of researchers and engineers to support UK science and innovation

Internal and External Relationships

Regular contact with the MatIC Centre Director and TWI.

Collaboration with other Project partners.

Planning and Organising

- Managing your own time to ensure that the Project tasks are completed to appropriate deadlines.
- Plan and prepare research work in collaboration with the Project team to meet the needs of MatIC and the School of Engineering
- Plan research including proposal activities of the Centre after discussion with the Centre Director
- Organise research priorities and project tasks ensuring resource availability
- Analyse and present financial information and income and expenditure information, including finances projections for 'REUSE' Project

Qualifications, Knowledge and Experience

Essential

- A PhD (or close to completion) in Materials, Chemistry, Chemical Engineering, Engineering*
- Demonstrated expertise and research achievement/potential in Electrochemistry, Corrosion, Materials*
- Expertise in Multi-physics modelling, electrochemistry and optical-electrochemical techniques*
- Experience of working on public-funded EU collaborative projects*

Desirable

- Evidence of experience in national and international collaboration

- A preference will be given to candidates with research strengths in materials engineering, corrosion monitoring, materials selection, materials chemistry, design of experiments or modelling
- A strong publication record on research in materials, corrosion modelling, coatings and related topics
- Experience of writing proposals for research funding

Skills, Abilities and Competencies

Essential

- Demonstrated ability to initiate, develop, and deliver high-quality research with an excellent record of research achievement underpinned by a record of publication in high quality peer-reviewed journals in Materials/Electrochemistry/Corrosion/Engineering
- Be able to identify areas of research collaboration and demonstrate the ability to work in collaborative projects
- Ability to work independently and collaboratively in a research group
- Good effective communication (oral and written*) and presentation skills
- Evidence of project management
- Ability to plan, organise, implement, and deliver programmes of work

Desirable

- Evidence of competence in administration
- Good interpersonal skills
- Competence in IT and familiarity with a computerised environment

Criteria to be used in shortlisting candidates for interview

Reason for Fixed Term Contract

The reason for the fixed term contract is stated in section 1.9 in the summary of contractual terms in your contract of employment.

Criminal Declarati

If you become an employee, you must inform your manager immediately, in writing, if you are the subject of any current or future police investigations/legal proceedings, which could result in a criminal offence, conviction, caution, bind-over or charges, or warnings.

Supporting University Activities

As a University of Leicester citizen, you are expected to support key university activities such as clearing, graduation ceremonies, student registration and recruitment open days. We expect all staff as citizens to work flexibly across the University if required.

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Job Summary

University Values

Inclusive - We are diverse in our makeup and united in ambition. Our diversity is our strength and makes our community stronger.

Inspiring - We are passionate about inspiring individuals to succeed and realise their ambitions. We challenge our community to think differently, to get involved, and to constantly embrace new ideas.

Impactful - As Citizens of Change we will generate new ideas which deliver impact and empower our community

Freedom of Speech

The University is committed to upholding freedom of speech and academic freedom within the law throughout our recruitment processes. We ensure that all candidates are considered based on merit and suitability for the role, without regard to their lawful viewpoints or the expression of challenging or controversial ideas. Our recruitment policies and practices are designed to protect applicants from discrimination or adverse treatment on the basis of their opinions, and to foster an environment where open debate and diverse perspectives are valued as essential to our academic mission.

Equity and Diversity

We believe that equity, diversity and inclusion is integral to a successful modern workplace. By developing and implementing policies and systems that challenge stereotypes across all aspects of our work, we have a culture that recognises and values the diverse contributions of our staff which benefits everyone. Our strong values of inclusivity and equity support our efforts to attract a diverse range of high quality staff and students, and identify our University as a progressive and innovative workplace that mainstreams equity, diversity and inclusion.