

## **Post Description**

Post	Research Fellow	Position no:	15696			
College / Directorate / Research Institute	College of Engineering, Design and Physical Sciences Department of Mechanical and Aerospace Engineering					
Salary	Grade R1					
Contract type	Fixed-term contract for 12 months					
Full time/Part time	Full time					
Accountable to	Reader in Mechanical and Aerospace Engineering					
Reports	N/A					
Internal stakeholders	Mechanical and Aerospace Engineering					
External stakeholders	NA					
Date reviewed	April 2024					

#### Main accountabilities:

This project is an externally funded grant. The Researcher will ensure that the project deliverables and milestones are delivered in a timely and acceptable manner.

- To work closely with external collaborators and report progress.
- To contribute to writing reports and producing deliverables as required.
- To disseminate outcomes and results of the project (international journals and conference publications etc.)

## Key duties and responsibilities:

The primary focus of the work of the successful applicant will be

- (i) Develop a dynamic model for predicting sustainability of the solar thermal technology.
- (ii) Analyze and interpret data from environmental, economic and social investigations.
- (iii) Utilize expertise in Python, COMSOL or equivalent software to implement the dynamic model.
- (iv) Demonstrate an understanding of solar thermal technologies to contribute to model refinement.
- (v) Experience in Life Cycle Assessment will be considered as and advantage.

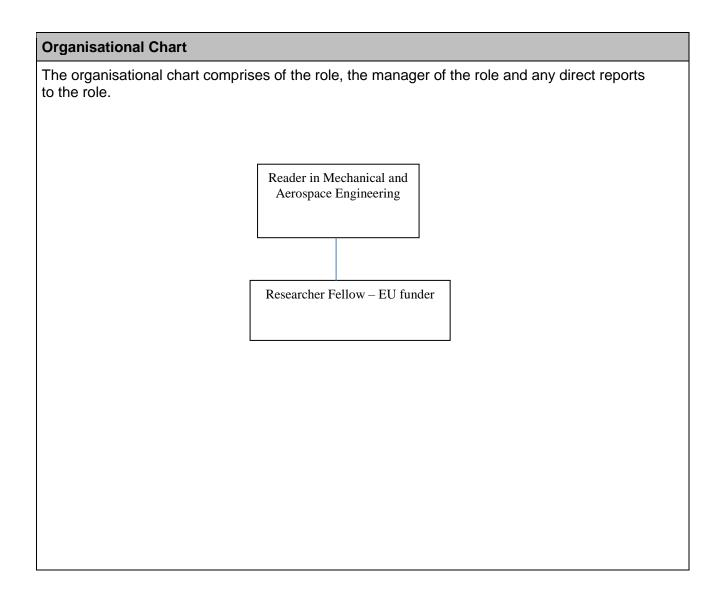
#### **Effective Behaviours**

- Timeliness
- Meeting Deadlines
- Communication and Networking
- Networking group across colleges
- Ability to negotiate and influence
- Ability to plan and organise own workload

 Ability to adapt to a flexible approach to the demands of a busy college/department in order to accommodate changes in priorities when required

### **University Employment Policy:**

- 1. Undertake any other reasonable duties as required and commensurate with the grade of post.
- 2. Adhere to and comply with the provisions of the Data Protection Act and the Health and Safety at Work Act in accordance with University policies.
- 3. Undertake all duties and responsibilities in compliance with the rules and regulations encompassing equal opportunities to help foster a diverse workforce.
- 4. Adhere, comply and work in accordance with University and Departmental policies, procedures and codes of conduct.
- 5. Promote the University's Environmental Policy and demonstrate commitment to it through actions and decision making.
- 6. Actively participate in on-going professional development activities as requested



Disabled applicants meeting the Essential criterion will be guaranteed an interview as part of the University's commitment to the Disability Confident Scheme.



# **Person Specification**

Attributes	Criteria	Essential /Desirable	How measured
Education, qualifications & training	PhD in appropriate Discipline in Food Science/ Engineering/ Technology/ Chemical or Process Engineering OR Attained equivalent research, industrial or	E	Application form
	commercial experience. (Minimum 4 years).  Evidence of research attainments including examples of written contributions in academic publications/journals.	E	Application form
Experience	Evidence of IT literacy Python, COMSOL or equivalent software	E	Application form, Interview
	Provide evidence of independent, original research.	E	Application form, Interview
	Experience of organising and supervising a project team	E	Application form, Interview
	Proven experience of planning research, preparing research proposals and negotiating contracts with little supervision.	E	Application form, Interview
Knowledge Skills & Abilities	Good communication skills both verbal and written – particularly when demonstrating the results of own research to both specialists and	E	Application form, Interview
	non-specialists.  Ability to draft research papers for Publication in appropriate Academic Journals.  Ability to work largely on own initiative with minimum supervision.	E	Application form, Interview Application form, Interview
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	Ability to give presentations at academic/non-academic conferences and meetings	E	Application form, Interview
Additional Requirements (not included above)			

Job Hazard Assessment Form (JHF)

Job Hazard Assessment Form (JHF)  Job description attached (must incorporate identified hazards								
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Please tick all relevant workplace hazards identified with this position.  Currently the University, as a minimum runs Health Surveillance programmes for staff working with skin and respiratory sensitizers, Biological Agents Class 2 and above and GMOs.								
☑ Display screen equipment	■ Manu	ual handling	☐ Prolonged standing e.g. 1 hour plus		☐ Prolonged sitting e.g. 1 hour plus			
☐ Biological agents: Class 2 and above and GMO Class 1	☐ Huma or fluids	an blood, tissue	☐ Respiratory sensitizers or laboratory allergens e.g. animals		☐ Skin Irritant/Chemicals			
☐ Work in confined places	□ Ionis	ing radiation	☐ Noise (more than 80 dba- 8 hrs. taw)		☐ Lone working			
☐ Use of dangerous machinery	□ Elect	rical hazards	☐ Shift wo	rk/night work	☐ Work outdoors			
☐ Neck & arm vibrating equipment	☐ Fork	lift truck driving	☐ Work at heights		Lasers			
Any other hazards (e.g. food handling) please specify and ensure that appropriate guidance has been received from the Health & Safety office:								
Physical demand of the job:	□ Liftin	g □ Ca	arrying   Bending		y □ Pushing			
If lifting/carrying duties expected, please give details of heights/weight load(s) the individual is expected to lift/carry and frequency:								
Travel/Off-site working:	% of tim	ne:	⊠ UK		☐ Overseas			
Driving for work:	l	e/Occasionally	□ Daily		☐ Weekly			
Management responsibility	ty:	☐ Supervisor		☐ Non-supervisory				
Hours of work:		□ Full time		☐ Part time	17.5hours			
☐ Non-standard contractual hours? (evenings/weekends) ☐ Night work Frequency, number of hours, type of work outside standard hours:								
Other – including occasional or possible work hazards (please specify nature and frequency):								

The hazards outlined in this form are all subject to prior departmental risk assessment and may also be subject to provision of health surveillance, immunisation or training organised initially by the manager by contacting the Health and Safety Department and/or Staff Development.