

Post Description

Post	Research Fellow Energy Systems	Position no:	11823-3
College / Department / Directorate / Institute	College of Engineering, Design and Physical Sciences Department of Mechanical and Aerospace Engineering Centre for Sustainable Energy Use in Food Chains Institute of Energy Futures		
Salary	Grade R1		
Contract type	30 months Fixed Term		
Full time/Part time	Full Time		
Accountable to	Prof. Savvas Tassou		
Reports	n/a		
Internal stakeholders	Director of CSEF, CSEF Administrator, other Researchers in CSEF, admin staff in MAE		
External stakeholders	Industry and other Centre groups		
Date reviewed	June 2024		

Main accountabilities:

To carry out research and development and contribute to existing and new projects, business development activities and the promotion of the work of the Centre for Sustainable Energy Use in Food Chains (CSEF), and the Institute of Energy Futures (IEF), nationally and internationally.

Work of the Role:

The appointee will work within CSEF and the Institute of Energy Futures at Brunel University London and will be expected to undertake independent research on one or more of the following areas:

- i) Hydrogen technologies for heating and cooling.
- ii) Heat pumps and refrigeration.
- iii) Advanced heat to power cycles particularly sCO₂.

Post Profile

- Production of independent original research
- Acquiring and interpreting research data and results
- Take initiative in the planning of research and other supporting activities
- Write reports
- Present the results to stakeholders and at national and international conference
- Produce high quality journal publications

Management of Staff and Students (Responsibilities and Accountability)

- To provide appropriate advice to staff and students on their research area or research methodologies

Effective Behaviours

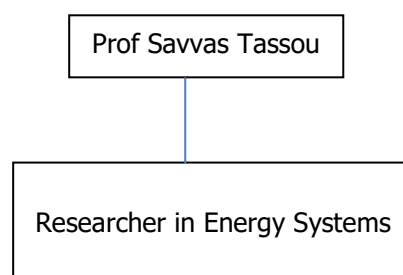
- Timeliness
- Meeting Deadlines
- Communication and Networking
- Networking group across colleges
- Ability to negotiate and influence
- Ability to plan and organise own workload
- Ability to adapt to a flexible approach to the demands of a busy college/department in order to accommodate changes in 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

Organisational Chart

The organisational chart comprises of the role, the manager of the role and any direct reports to the role.



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	<p>PhD in appropriate discipline OR attained equivalent research, industrial or commercial experience</p> <p>Evidence of research attainments including examples of written contributions in academic publications / journals</p>	<p>E</p> <p>E</p>	<p>Application form</p>
Experience	<p>Details of previous employment/research and/or academic achievements applicable to the post over the past 2 years</p> <p>Evidence of IT literacy including Excel and database</p> <p>Experience of planning research, preparing research proposals and negotiate contracts with little supervision</p>	<p>E</p> <p>E</p> <p>E</p>	<p>Application form, Interview</p> <p>Application form, Interview</p> <p>Application form, Interview</p>
Knowledge Skills & Abilities	<p>Evidence of current knowledge in the subject area</p> <p>Demonstrate ability in acquiring and Interpreting research data and results</p> <p>Ability to compile reports and give/participate in academic presentations – particularly the results of own research to both specialists and non specialists</p> <p>Ability to draft research papers for Publication in appropriate academic journals</p> <p>Experience of giving oral presentations at academic / non-academic conferences and meetings</p>	<p>E</p> <p>E</p> <p>E</p> <p>E</p> <p>E</p>	<p>Application form, Interview</p> <p>Application form, Interview</p> <p>Application form, Interview</p> <p>Application form, Interview</p> <p>Application form, Interview</p>
Additional Requirements (not included above)			

Job Hazard Assessment

Any identified hazards have undergone appropriate Risk Assessments.

Please tick all relevant workplace hazards identified with this post.				
Currently the University, as a minimum runs Health Surveillance programmes for staff working with skin and respiratory sensitisers, Biological Agents Class 2 and above and GMOs.				
Display screen equipment <input checked="" type="checkbox"/>	Manual handling <input type="checkbox"/>	Prolonged standing e.g. 1 hour plus <input type="checkbox"/>	Prolonged sitting e.g. 1 hour plus <input checked="" type="checkbox"/>	
Biological agents: Class 2 and above and GMO Class 1 <input type="checkbox"/>	Human blood, tissue or fluids <input type="checkbox"/>	Respiratory sensitisers or laboratory allergens e.g. animals <input type="checkbox"/>	Skin Irritants/Chemicals <input type="checkbox"/>	
Work in confined Places <input type="checkbox"/>	Ionising radiation <input type="checkbox"/>	Noise (more than 80 dba-8 hrs. law) <input type="checkbox"/>	Lone working <input type="checkbox"/>	
Use of dangerous machinery <input type="checkbox"/>	Electrical hazards <input type="checkbox"/>	Shift work/night work <input type="checkbox"/>	Work outdoors <input type="checkbox"/>	
Neck & arm vibrating equipment <input type="checkbox"/>	Fork lift truck driving <input type="checkbox"/>	Work at heights <input type="checkbox"/>	Lasers <input type="checkbox"/>	
Any other hazards (e.g. food handling) please specify and ensure that appropriate guidance has been received from the Health & Safety office:				
Physical demands of the job	Lifting <input type="checkbox"/>	Carrying <input type="checkbox"/>	Bending <input type="checkbox"/>	Pushing <input type="checkbox"/>
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: Meetings / Conferences	% of time	UK <input checked="" type="checkbox"/>	Overseas <input type="checkbox"/>	
Driving for work:	None <input type="checkbox"/>	Occasionally <input checked="" type="checkbox"/>	Weekly <input type="checkbox"/>	Daily <input type="checkbox"/>
Management responsibility:	Supervisor <input type="checkbox"/>		Non-supervisory <input type="checkbox"/>	
Hours of work:	Full time <input checked="" type="checkbox"/>		Part time <input type="checkbox"/> hours	
Non-standard contractual hours? (evenings/weekends) <input type="checkbox"/> No				
Frequency, number of hours, type of work outside standard hours:				
Other – including occasional or possible work hazards (please specify nature and frequency):				