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| Last updated: | September 2023 |

**JOB DESCRIPTION**

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| Post Title: | **Research Fellow** |
| School/Department: | School of Electronics and Computer Science |
| Faculty | Faculty of Engineering and Physical Sciences  |
| Career Pathway: | Education, Research and Enterprise (ERE) | Level: | 4 |
| \*ERE category: | Research  |
| Posts responsible to: | Lecturer in Electrical Power Engineering Group |
| Posts responsible for: | Not applicable |
| Post base: | **Office-based**  |

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| Job purpose |
| To undertake research in accordance with the specified research project under the supervision of the award holder. To undertake leadership, management and engagement activities within the Electrical Power Engineering (EPE) Group.  |

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| Key accountabilities/primary responsibilities | % Time |
|  | To conduct research associated with the named research project.  | 60% |
|  | Collaborate with colleagues at partner universities to ensure timely delivery of the project outcomes. | 10% |
|  | Regularly disseminate findings by taking the lead in preparing publication materials for refereed journals, presenting results at conferences, and explaining results to the project sponsor. | 15% |
|  | Carry out administrative tasks associated with the project, including risk assessment of research activities, organisation of project meetings and documentation. Implement procedures to ensure accurate and timely formal reporting of project progress. | 5% |
|  | Undertake personal development (such as undertaking training activities and attending relevant conferences) as agreed with the line manager. | 5% |
|  | Perform any other duties as allocated by the line manager following consultation with the Research Fellow.  | 5% |

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| Internal and external relationships (including nature and purpose of relationships) |
| Direct responsibility to Dr. Efstratios Batzelis (Electrical Power Engineering group).This project is heavily focused on international collaboration with academic institutions and industries, so the Research Fellow will foster and further these relationships via research visits and joint research.Reporting and liaison responsibilities to external funding bodies or sponsors. |

| Special Requirements |
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| To attend national and international conferences for the purpose of disseminating research results.To perform multiple research visits in project partners over the course of the project.*Applications for Research Fellow positions will be considered from candidates who are working towards or nearing completion of a relevant PhD qualification. The title of Research Fellow will be applied upon successful completion of the PhD. Prior to the qualification being awarded the title of* ***Senior Research Assistant*** *will be given.* |

**PERSON SPECIFICATION**

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| Criteria | Essential | Desirable | How to be assessed |
| Qualifications, knowledge & experience | A PhD degree or equivalent professional qualifications and experience in Electrical/Power Systems or other closely related subjectsExperience and knowledge on power system dynamics, stability, and controlExperience in power electronics controlExperience of power system modelling/simulation | Good track record of publications in the fields of power systems and power electronicsExperience in inverter control, especially grid-forming controlExperience with power system dynamicsExperience with hardware in the loop tests or other experimental setupsExperience of working with teams from outside of your own discipline, including any cases where team members were not co-located.Experience of preparing deliverable reports for an external funder. | Application, and Interview |
| Planning & organising | Evidence of effective research project management. | Ability to write project reports/papers.Able to plan and deliver work across disciplines, including where teams are not co-located. | Application and Interview |
| Problem solving & initiative | A self-starter, able to develop an understanding of (unknown) complex problems and apply in-depth knowledge to address them, leading to long-term academic and societal impacts. | Ability to develop original techniques/ methods. | Application and Interview |
| Management & teamwork | Ability to contribute to the management and administrative processes of the project.Ability to work effectively in a team, understanding the strengths and weaknesses of others to help team-work development. |  | Interview  |
| Communicating & influencing | Communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audience.Ability to present research results at group meetings and conferences.Ability to write up research results for publication in leading peer-viewed journals and/or internationally acknowledged outlets.Work proactively with colleagues in other work areas/institutions, contributing specialist knowledge to achieve outcomes. | Experience of working across professional boundaries.Ability to communicate with a variety of stakeholders with a different background and adapt style to meet their needs.  | Interview |
| Other skills & behaviours | Application of relevant Health and Safety regulations within work area.Positive attitude to academic and industrial work colleagues.Proactive in promoting a working environment that is inclusive and engaging; recognising the value diversity brings. |  | Interview |
| Special requirements | Able to travel to and attend national and international conferences to present research results.Able to perform research visits to project partners up to 30 consecutive days |  | Interview |

**JOB HAZARD ANALYSIS**

**Is this an office-based post?**

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| [x]  Yes | If this post is an office-based job with routine office hazards (e.g.: use of VDU), no further information needs to be supplied. Do not complete the section below. |
| [ ]  No | If this post is not office-based or has some hazards other than routine office (e.g.: more than use of VDU) please complete the analysis below.Hiring managers are asked to complete this section as accurately as possible to ensure the safety of the post-holder. |

## - HR will send a full PEHQ to all applicants for this position. Please note, if full health clearance is required for a role, this will apply to all individuals, including existing members of staff.

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| **ENVIRONMENTAL EXPOSURES** | **Occasionally** (<30% of time) | **Frequently**(30-60% of time) | **Constantly**(> 60% of time) |
| Outside work  |  |  |  |
| Extremes of temperature (e.g.: fridge/ furnace) |  |  |  |
| ## Potential for exposure to body fluids |  |  |  |
| ## Noise (greater than 80 dba - 8 hrs twa) |  |  |  |
| ## Exposure to hazardous substances (e.g.: solvents, liquids, dust, fumes, biohazards). Specify below: |  |  |  |
| Frequent hand washing |  |  |  |
| Ionising radiation  |  |  |  |
| **EQUIPMENT/TOOLS/MACHINES USED** |
| ## Food handling  |  |  |  |
| ## Driving university vehicles(e.g.: car/van/LGV/PCV)  |  |  |  |
| ## Use of latex gloves (prohibited unless specific clinical necessity) |  |  |  |
| ## Vibrating tools (e.g.: strimmers, hammer drill, lawnmowers)  |  |  |  |
| **PHYSICAL ABILITIES** |
| Load manual handling |  |  |  |
| Repetitive crouching/kneeling/stooping |  |  |  |
| Repetitive pulling/pushing |  |  |  |
| Repetitive lifting |  |  |  |
| Standing for prolonged periods |  |  |  |
| Repetitive climbing (i.e.: steps, stools, ladders, stairs) |  |  |  |
| Fine motor grips (e.g.: pipetting) |  |  |  |
| Gross motor grips |  |  |  |
| Repetitive reaching below shoulder height |  |  |  |
| Repetitive reaching at shoulder height |  |  |  |
| Repetitive reaching above shoulder height |  |  |  |
| **PSYCHOSOCIAL ISSUES** |
| Face to face contact with public |  |  |  |
| Lone working |  |  |  |
| ## Shift work/night work/on call duties  |  |  |  |