

**PERSON SPECIFICATION**

**Research Associate (Grade 6)/Senior Research Associate (Grade 7) in Autonomous Operation of Power Networks, School of Engineering**

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| **Criteria** | **Essential/ Desirable** | **\* Application Form/ Supporting Statements/ Interview**  |
| To convey an appropriate rationale and interest in applying for this particular post. | Essential | Interview/supporting statements |
| PhD in a relevant area (electrical engineering or renewable engineering or software development with knowledge of electrical power engineering). | Essential | Application form |
| Interest and research experience in machine/ deep learning, modelling, optimisation and control for power and energy system.  | Essential | Interview/supporting statements |
| The ability to engage with new research challenges, and to derive new analytical and experimental methods necessary to meet the objectives of the project. | Essential | Supporting statements |
| The ability to handle and prioritise a wide portfolio of research-based responsibilities in a challenging environment, particularly smart grid related activities. | Essential | Interview/supporting statements |
| Publications record appropriate to stage of career including first author research publications in peer-reviewed journals. | Essential | Application form |
| Excellent presentation skills. | Essential | Interview/supporting statements |
| A willingness to travel to attend meetings, workshops and conferences. | Essential | Interview |
| Knowledge and experience in cyber-physical power systems, data analytics, development of new AI models, and the relevant software programming. | Desirable | Interview/supporting statements |
| Proficient use of IT, including MS Office, MATLAB, machine learning algorithms, etc. | Desirable | Interview/application form |
| Knowledge and experience in modelling and simulation of electrical power systems, e.g., PSCAD/EMTDC. | Desirable | Interview/supporting statements |
| Post-doctoral experience in relevant discipline  | Desirable | Application form |
| Ability to identify new research objectives and support funding applications (Grade 7 only) | Essential | Interview |
| Experience leading publications in high-impact journals (Grade 7 only) | Essential | Application form / CV |
| Experience of collaborative research projects and collaborating with external partners (Grade 7 only) | Desirable | Supporting Statement |

* **Application Form** – assessed against the application form, curriculum vitae and letter of support. Applicants will not be asked to answer a specific supporting statement. Normally used to evaluate factual evidence eg award of a qualification. Will be “scored” as part of the shortlisting process.
* **Supporting Statements** - applicants are asked to provide a statement as part of their application to demonstrate how they meet the criteria. The response will be “scored” as part of the shortlisting process.
* **Interview** – assessed during the interview process by either competency based interview questions, tests, presentation etc.