

**PERSON SPECIFICATION**

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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 |
| A PhD degree in a relevant area (electrical engineering or renewable engineering or software development with knowledge of electrical power engineering). | Essential | Application form |
| Interest and experience in researching the use of machine and deep learning, modelling and monitoring, optimisation and control for power and energy system operation.  | Essential | Interview/supporting statements |
| Evidence of strong intellectual and analytical skills, including the ability to engage effectively with new research challenges, and to derive new analytical and experimental methods necessary to meet the objectives of the project. | Essential | Supporting statements |
| Experience of complex and collaborative research projects. | 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, big data analytics in the energy sector, development of new AI models, and the relevant software programming. | Desirable | Interview/supporting statements |
| Proficient user of IT, including MS Office, MATLAB, Python, machine learning algorithms, etc. | Desirable | Interview/application form |
| Knowledge and experience in modelling and simulation of electrical power systems using PSCAD/EMTDC. | Desirable | Interview/supporting statements |
| Post-doctoral experience in relevant discipline.  | Desirable | Application form |
| Experience in supporting the preparation of new studies including grant submissions. | Desirable | Interview/application form |

* **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.