

PERSON SPECIFICATION

Research Associate in Wave Energy Converter Optimisation and Control.

(For the research project: “Novel High Performance Wave Energy Converters with advanced control, reliability and survivability systems through machine-learning forecasting (NHP-WEC).”)

Vacancy Ref: A3581

Criteria	Essential/ Desirable	* Application Form/ Supporting Statements/ Interview
An undergraduate degree or equivalent, preferably in an Engineering discipline.	Essential	Application form
A PhD in relevant discipline and any related academic or industrial experience.	Essential	Application form
To convey an appropriate rationale and interest in applying for this particular post.	Essential	Application Form
Ability to meet tight deadlines, plan and prioritise tasks to support the project success.	Essential	Supporting statements/Interview
Effective interpersonal skills including evidence of working collaboratively and flexibly within a team and desire to develop new skills.	Essential	Supporting statements/Interview
The ability to handle and prioritise a wide portfolio of research-based responsibilities in a challenging environment.	Essential	Supporting statements
The ability to communicate effectively, both orally (Excellent presentation skills) and in writing, especially refereed publications.	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 experimental and analytical methods necessary to meet the objectives of the project.	Essential	Supporting Statements
Experience of complex, collaborative experimental research projects.	Essential	Supporting statements
Experience in sensor technology, signal processing and data driven modelling, and in using embedded data acquisition systems and software programming	Desirable	Supporting Statements/Interview
Knowledge of survivability, reliability and optimised control of devices in the marine environment, including the smart sensor and data acquisition, intelligent condition monitoring, predictive maintenance and optimised control strategy	Desirable	Supporting Statements/Interview
Post-doctoral experience in Wave Energy Converter Optimisation and Control	Desirable	Application form

Proficient user of IT, including MS Office, MATLAB, CAPTAIN software, LabVIEW, FPGA, machine learning algorithms, etc.	Desirable	Interview/Application Form
Good publication record in peer-reviewed journals.	Desirable	Application Form
A willingness to travel to attend meetings, conferences and overseas.	Desirable	Interview

- **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 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.