



WORKING

Job Title	Performance Engineer
Reports to	Senior Performance Engineer
Contract Type	Permanent
Salary Range	£30 – 40 K depending on experience
Location	Inverness
Role Purpose	To support the wave power performance team in the optimisation of AWS-III through development of practical and theoretical understanding of the system and development of associated numerical simulation and performance prediction tools

TASKS & RESPONSIBILITIES:

- Investigation & analysis of wave energy resources
- Physical model test planning & execution both in laboratory and real environments
- Analysis, processing and reporting of test data
- Development & operation of numerical simulation and prediction tools
- Development of general theory & understanding in relation to the operation of AWS-III
- Remain current with ongoing wave-power related research

RELATIONSHIPS – INTERNAL/EXTERNAL:

Internal:

- Reports to and is mentored by the Senior Performance Engineer
- Works with other R & D team members

External:

- Liaison with software providers
- Liaison with academic partners and contacts

EDUCATION/TRAINING:

Essential:

- First class or upper second Honours degree in engineering, naval architecture physics or mathematics



Desirable:

- Post-graduate degree in relevant discipline
- Specific training in hydrodynamics, gravity waves or general wave power theory

SKILLS, KNOWLEDGE & EXPERIENCE:

Essential:

- Expert level use of software tools including spreadsheets and MathCad
- Prior experience with Matlab / Simulink or other real-time simulation software

Desirable:

- Experience with development of simulation code
- Experience with physical laboratory testing, including instrumentation and data acquisition
- Experience in new product research and development
- Practical experience in industry
- Experience with FEA / CFD packages an advantage

ATTRIBUTES/CHARACTERISTICS:

Essential:

- Wishes to be part of the team that develops and delivers THE technology of choice for utility scale offshore wave power generation
- Practical, problem solving 'can do' attitude
- Hunger to learn and develop within a new field of science and engineering
- Good oral & written communication skills
- Able to work under pressure and take initiative when required

Desirable:

- Good team-worker
- Well organised
- Good documentation management
- Methodical approach to design

CONTACT:

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