

Role Title: Electrical & Controls Engineer

Reporting to: Engineering Director

Location: Alness

Role Purpose

To provide professional electrical, controls and instrumentation expertise to the Company through the design, analysis, model testing, construction, commissioning and testing of the MK II AWS pre-commercial demonstrator. The candidate will be a Chartered Engineer with a proven track-record in industry (off-shore/sub-sea an advantage) and a strong academic background. A combination of project management and detailed engineering skills are essential.

Key Tasks

- To become fully familiar with the electrical systems as proposed by contractors and subsequently to manage the development and improvement of these systems;
- To gain a practical working understanding of the numerical modeling tools developed for the analysis of the AWS system and use these tools in the development of the control system for the AWS;
- To design and manage the automation, control and data acquisition aspects of the AWS scale model test programme;
- To manage the detailed electrical and controls design programme for the full scale AWS MK II demonstrator, including management of power and sub-sea systems contractors;
- To evaluate the grid connection at the proposed demonstration site and design the appropriate interconnection
- To develop the design for the sub-sea cabling and interconnection of AWS devices
- To develop the electrical maintenance strategy

Technical and Professional Knowledge

- Chartered Electrical Engineer with good honours degree
- Design and project management experience with an OEM or contractor in the marine, sub-sea or renewables sector
- Hands-on experience or vocational training an advantage
- Evidence of continued academic development and retention of analytical skills
- Design-level knowledge of generators, power systems and variable speed drives
- Design-level knowledge of instrumentation and control systems
- Applications level knowledge of power cabling, transformers, switchgear and protection

Other Skills

- A second language, particularly French, Spanish or Portuguese would be an advantage.
- Good communication skills
- A dynamic approach to work and a desire to make a real difference in line with AWS Ocean Energy culture and vision

Enquiries and CV's should be sent in the first instance to careers@awsocan.com