



Position Description

Job Title:	Senior Electrical & Control Engineer
Office:	Pembroke Dock, Wales
Employment Type:	Full Time, Employee
Salary:	To be negotiated
Start Date:	February 2018
Line Manager:	Head of Systems Engineering

Overview

Founded in 2012, Bombora is an award-winning ocean energy company with origins in Perth, Western Australia. Our innovative mWave converter is intended to deliver environmentally friendly, large scale energy for national electricity grids. Bombora wave farms are designed for deployment in coastal locations throughout the world. Bombora strives to create renewable energy solutions with a positive impact on our environment and our community.

Profile Description

Bombora is seeking a Senior Electrical and Control Engineer with experience of innovative marine energy projects. They will be based out of Bombora's recently established Pembroke Dock offices and will be responsible for the design and delivery of the electrical and control architecture of the first mWave device.

Main Responsibilities

- Lead engineer responsible for the design of the electrical and control architecture of the mWave machine.
- Electrical system studies including generator sizing, protection, fault analysis and power quality performance.
- Control system studies including generator control, SCADA and equipment health monitoring.
- Design, application and commissioning of electrical power and associated control systems.
- Develop system integration, testing, commissioning and maintenance procedures.
- Responsible for investigation and resolution of technical issues and failures relating to electrical and control system elements.
- Collaborating with suppliers to ensure they implement quality control systems that meet our exacting requirements.
- Develop and implement a quality plan ensuring compliance with product requirements, relevant codes and standards.
- Negotiate and manage commercial terms with suppliers of electrical elements.

Qualifications & Experience

- Degree in Electrical Engineering or related discipline.
- Membership / Chartered status.
- Extensive Matlab programming experience.
- Significant experience of design and system integration for marine applications.



- Experience of system design, specification, build, commissioning and testing, including hardware in the loop testing.
- Experience of designing/implementing State Machines, Equipment Health Monitoring and SCADA systems.
- Experience of working with medium voltage systems (ac and dc).
- Highly conversant with Microsoft Office applications, preferably Office 365.
- Full and Current EU Drivers Licence.
- Medically and physically fit to offshore standards.

Required Competencies

- Good communication skills. Good spoken and written English.
- Able to work as part of a team and organise own workload to meet deadlines.
- Good understanding of UK HSE law and industry best practice.
- Excellent understanding of the issues related to operating equipment in a subsea environment.
- Excellent leadership ability and good negotiating and influencing skills.
- Good analytical, communication, organisational and QA/QC skills.
- Ability to work proactively and take guidance where necessary.
- Good stakeholder engagement.

Line of Reporting

The Senior Electrical & Control Engineer reports directly to the Head of Systems Engineering.

How to Apply

Applicants should submit an up to date CV together with a covering letter explaining why you are interested in the role and what relevant experiences you have. You should also provide names and addresses of two people that will act as your referees, one of which should be a business/professional contact. We will only approach them if you are invited to interview.

Applications should be emailed to recruiting@bomborawave.com. The closing date for applications is the 5th February 2018.

Further Information

Bombora is an equal opportunities employer. We also actively support Welsh language speakers and on request we can provide any of our documentation in Welsh. Please visit our website for further information.

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