

## THE EUROPEAN MARINE ENERGY CENTRE

### JOB DESCRIPTION AND PERSON SPECIFICATION

#### SENIOR ELECTRICAL & PERFORMANCE TEST ENGINEER

**Reports to:** Operations & Maintenance Manager

**Purpose:** To ensure that EMEC's electrical systems meet client's requirements, that they are operated to relevant standards and to deliver power performance assessment of customers technologies.

#### Responsibilities

1. Manage operation of EMEC's electrical systems, working closely with the Electrical Engineer and Contractors, to ensure activities are carried out in a safe and efficient manner.
2. Provide a testing service for wave and tidal generating devices owned by EMEC's clients, participating independently in technology design reviews and managing clients' connections to the EMEC electrical system.
3. Ensure availability of all EMEC's facilities and equipment associated with testing, which includes HV electrical connections and a range of electrical measurement systems.
4. Work with clients to solve operational problems of an electrical, technical or data-related nature.
5. Provide performance related data and reports to clients to assist with design and operation of devices and ensure that data and results are collated, processed and archived in a consistent and readily accessible manner.
6. Ensure that the EMEC Integrated Management System is adhered to and assist the Quality Manager and others with identifying and progressing improvement actions, supporting EMEC's accreditation by the UK Accreditation Service (UKAS) or other relevant body.
7. Maintain awareness of requirements placed on EMEC through industry standards and other requirements/legislation.
8. Implement equipment and systems maintenance plans within agreed budgets. Ensure that change and configuration management of all EMEC HV electrical assets is carried out correctly.
9. Support staff with technical tasks carried out in relation to EMEC electrical system measurements, data collection and records.

10. Participate in the on-call Duty Manager roster as required (approx. one week per four).

11. Project Management of EMEC and client development works.

12. Carry out ad hoc requests by the Operations & Maintenance Manager as required.

**Reports:** There is no direct line management responsibility with this position however, the post holder will be the Team Leader for the posts identified in the Organisation Chart. The incumbent will be required to instruct/supervise a number of sub-contractor personnel who carry out certain functions for EMEC. These functions include: HV electrical operation and maintenance; IT support; some data handling and reporting functions; local maintenance and emergency call-out on the Island of Eday (tidal substation location).

## **Person Specification**

### **Education**

All round education

Essential – first degree or equivalent in a technical and/or electrical / electronic or a subject related to testing and measurement.

Desirable – specific recognised qualification (academic or vocational) in instrumentation and testing.

### **Skills & Knowledge**

Essential - familiarity with HV electrical operations. Good numeracy and written communication. Computer literacy and familiarity with IT hardware. Good verbal communicator.

Desirable – specific knowledge of instrumentation and measuring systems. Knowledge of QA systems e.g. ISO 9000 series.

### **Personal Attributes**

Essential – team worker; self-motivated; level of fitness associated with outdoor working and/or the marine environment. Demonstrable willingness to learn in the course of the job. Willingness to assist with the career development of other members of the EMEC operations team. Positive bias towards renewable forms of energy. High sense of responsibility and integrity.

Desirable – personal aptitude for outdoor life and liking for marine activity.

### **Experience**

Essential - Five years post-graduate experience in renewables, electricity supply, process, offshore oil and gas or similar industry. Some time working with instrumentation and measurement. Experience with HV electrical systems

Desirable - experience of formal Quality Assurance schemes.

## **Special Conditions Associated with the Role**

1. Some periods of lone working required without close supervision

2. Some short duration overseas travel may be required

Senior Electrical & Performance Test Engineer JD GOV031-06-01 20171030

©EMEC 2022

Page 2 of 2