

**THE EUROPEAN MARINE ENERGY CENTRE**  
**JOB DESCRIPTION AND PERSON SPECIFICATION**  
**PERFORMANCE TEST ENGINEER**

**Reports to:** Technical Manager

**Purpose:** Deliver EMEC's services into collaborative R&D projects focussed on marine energy device testing and performance assessment.

**Responsibilities**

1. Work with EMEC's operational team to review program documentation, diagrams and performance specifications of marine energy technologies to be assessed.
2. Identify testing requirements, develop methods to be used, and sequences/phases of test operations for marine energy technologies.
3. Develop test plans and procedures ensuring that proper testing scenarios and quality assurance measures have been carried out.
4. Develop, maintain and update test software and test equipment which will then be used to gather data in the test location.
5. Analyse and interprets test results; identifying potentially suboptimal technology performance and data errors; and prepare technical reports containing quality and reliability data for use by the client.
6. Interface with the client and to ensure prompt attention and resolution of problems identified during testing.
7. Manage projects to EMEC's lifecycle, including development of budgets and production of deliverables to a high standard achieving 100% client satisfaction whilst ensuring that the company's contractual obligations are delivered.
8. Work with the Technical Manager to deliver updates on EMEC's activities at internal and external events, ensuring that learning from R&D projects is captured and incorporated by EMEC.
9. Provide technical input into the development of testing and certification schemes for the sector (working closely with key supply chain partners) and represent EMEC on international standards groups such as TC114.
10. 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.

11. From time to time carry out other assignments which may differ from the above as instructed by line management.

**Reports:** There are no reports to this position.

## **Person Specification**

### **Education**

Essential – Educated to degree level in a relevant technical or scientific subject, preferably related to the marine environment or renewable energy.

Desirable – A recognised project management qualification. Post graduate qualification in a relevant technical or scientific subject

### **Skills & Knowledge**

Essential – Well-developed critical, numerical and analytical skills. Good organisational abilities. Evaluative and decisive in decision-making, the ability to manage conflict. Writes well for a variety of audiences (e.g. technical, regulatory, management). Influencing and communication skills. IT literate.

Desirable – Knowledge of the challenges of working in the marine environment. Past experience of delivering large grant funded R&D projects. Knowledge of national/international standards for marine energy or another sector. Good understanding of statistics for use in data analysis.

### **Personal Attributes**

Essential – Natural team worker, determined to see team achieve success. Approachable and able to get the best from people. High sense of responsibility and integrity. Self-reliant and able to carry out complex tasks single-handed when appropriate. Confident in dealing with clients and a wide range of stakeholders at all levels. Excellent attention to detail. Good problem solving capability. Positive bias towards renewable forms of energy. Can maintain a calm approach when placed under pressurised conditions.

### **Experience**

Essential - Worked effectively within a project management focussed environment and managed ad-hoc teams.

Desirable - Preparation and presentation of papers at conferences. Delivery of public sector funded R&D projects and experience in preparing for financial audits. Past experience in delivery testing or certification products/reports. Five years or more working in renewable energy or an associated sector.

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

1. Some flexibility in hours is likely to be required.
2. Must be able to travel for meetings, conferences, etc (as necessary).