

**THE EUROPEAN MARINE ENERGY CENTRE  
JOB DESCRIPTION AND PERSON SPECIFICATION**

**ACOUSTIC ENGINEER**

**Reports to:** Technical Manager

**Purpose:** Develop and support delivery of EMEC's environmental monitoring services, including acoustics, for clients and within national and internationally funded R&D projects.

**Responsibilities**

1. Work with EMEC's operational team to plan and deliver environmental surveys (including acoustics) at EMEC's test sites and offsite as required. Prepare survey documentation, technical specifications, diagrams and method statements.
2. Develop test plans and procedures ensuring that proper testing scenarios and quality assurance measures have been carried out. Contribute recommendations to IEC TC114-40 Acoustic Measurement standard on behalf of EMEC.
3. Advise on and implement EMEC's environmental monitoring programme, providing technical expertise on acoustic monitoring, collision risk monitoring, surveying, ecological software development and data management. Contribute to the diversification of EMEC's environmental monitoring programme, in terms of acquisition of novel equipment and expertise, in order to extend capabilities to perform monitoring at EMEC sites, and to offer a range of commercial services
4. Analyse and interpret data results; identifying potential areas for improvement; and prepare technical reports for use by the client. Develop, maintain and update analysis software and survey equipment used to gather data at the test location.
5. Provide mentoring and training to upskill other members of EMEC staff in the use and deployment of key items in the scientific equipment inventory.
6. Produce deliverables for environmental projects within EMEC's project lifecycle in line with the project's budget and schedule to a high standard achieving client satisfaction whilst ensuring that the company's contractual obligations are delivered. Interface with the client, to ensure prompt attention and resolution of problems identified during environmental projects and acoustic assessments.
7. Work with the Environment and Consents Specialist and the rest of the technical team to deliver updates on EMEC's activities at internal and external events (including conferences), ensuring that learning from R&D projects is captured and incorporated by EMEC. Contribute to increasing knowledge in the field of environmental monitoring, particularly through academic journals.
8. Contribute to business development proposals for environmental projects related to EMEC's core business and facilities.

9. 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.
10. 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 honours degree level in a relevant technical or scientific subject which encompassed analysis of environmental data, preferably acoustics.

Desirable – Preferably educated to MSc or PhD level, in a relevant technical or scientific subject.

### **Skills & Knowledge**

Essential – Well-developed critical, numerical and analytical skills. IT literate and exceptional use of statistical analysis software. 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. Awareness of current environmental research and ongoing work in the industry.

Desirable – Knowledge of the challenges of working in the marine environment. Knowledge of acoustic measurement guidance for marine energy or another sector.

### **Personal Attributes**

Essential – Natural team worker, determined to see team achieve success. Proactive. Excellent attention to detail. Approachable and able to get the best from people. 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. Good problem-solving capability, resourceful. Positive bias towards renewable forms of energy. Can maintain a calm approach when placed under pressurised conditions.

### **Experience**

Essential – Experience 1-3 years conducting data analysis project and offshore surveying, particularly acoustics.

Desirable - Worked effectively within a project delivery environment and completed successful marine data collection campaigns. Past experience in delivering acoustic survey 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 surveys, meetings, conferences, etc (as necessary).