

THE EUROPEAN MARINE ENERGY CENTRE

JOB DESCRIPTION AND PERSON SPECIFICATION

SENIOR METOCEAN ENGINEER

Purpose: To be EMEC's metocean and oceanographic subject matter technical expert. To lead and manage the collection, analysis, quality control and dissemination of all metocean and oceanographic measurement programmes.

Reports to: Technical Manager

Responsibilities

1. Manage the development of EMEC's metocean and oceanographic data management, infrastructure and dissemination strategy and be instrumental in its delivery; in relation to EMEC's wave and tidal testing facilities, where EMEC's assets are deployed, including those sites required by its clients.
2. Streamline and improve tasks associated with quality control of EMEC data. Monitor the effectiveness of EMEC's QC and software validation processes.
3. Manage the continual improvement of EMEC's data acquisition through development of best practices in data measurement methodologies, modelling, analysis, verification, reporting and equipment improvements.
4. Provide data, surveys and reports to developers to assist with design and operation of devices and to other authorised bodies as directed.
5. Participate in the delivery of EMEC's UKAS accreditation for ISO/IEC 17025 and ISO 17020 performance and verification activities respectively, through planning sensor deployments, data collection and analysis; ensuring appropriate data and results are collated, stored, processed and presented in a consistent and readily accessible manner.
6. Support staff with technical tasks carried out in relation to EMEC measurements, data collection and records.
7. Respond to developer and academic enquiries concerning information held by EMEC including resource measurements and raw wave and tidal data.
8. Assist with the delivery of and or project manage projects as required.
9. Maintain awareness of data requirements placed on EMEC through industry standards and other conditions to proactively improve internal data management.

10. Identify research funding opportunities for data projects related to EMEC's core business and facilities, and prepare, or contribute to the preparation of, bid proposals as required.
11. Deliver papers or presentations on EMEC's metocean and oceanographic projects at appropriate conferences /workshops /seminars.
12. 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.
13. From time to time carry out other assignments which may differ from the above as instructed by the Technical Manager.
14. Work closely and flexibly with all EMEC staff from across the business.

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.

Person Specification

Education:

Essential – All round education with first degree or equivalent in a subject related to the marine environment such as oceanography (or equivalent industrial experience).

Skills & Knowledge:

Essential – High level of literacy and numeracy; good level of computer literacy and associated general capability in commonly used computer languages, data manipulation techniques and relevant software packages. Knowledge of MATLAB and similar products.

Desirable – Knowledge of GIS/CAD software; knowledge of SQL or other database system. Knowledge of MS SharePoint and associated development tools.

Personal Attributes:

Essential – Teamworker; self-motivated; organised; methodical; completer/finisher; level of fitness associated with outdoor working and/or the marine environment. Demonstrable willingness to learn in the course of the job. Positive bias towards renewable forms of energy. High sense of responsibility and integrity.

Experience:

Essential – 5-10 years' experience in metocean or oceanographic industry.

Desirable - Some experience of research in marine or renewable energy context.

Special Conditions Associated with the Role

1. Some periods of lone working required without close supervision associated with projects or in-house investigations.
2. Must be able to travel for some meetings, conferences, etc. (as necessary).