

THE EUROPEAN MARINE ENERGY CENTRE
JOB DESCRIPTION AND PERSON SPECIFICATION

HYDROGEN R&D ENGINEER

Reports to: Technical Manager

Purpose: To implement EMEC's hydrogen R&D programme, work across the company to deliver high quality technical outputs within its wider energy systems programme of work, and support EMEC's Operations team in the demonstration and testing of hydrogen products.

Responsibilities:

1. Technical delivery into hydrogen related projects to a high standard, to time, and budget. This includes:
 - Scoping out technical specifications to client requirements.
 - Planning and maintaining schedule of tasks that deliver to time and on budget with EMEC's project managers.
 - Writing technical reports on project activities and outputs.
2. Support the development of emerging services within EMEC's research portfolio, including;
 - Engagement with EMEC technical leads to understand R&D priorities.
 - Developing methods and processes for hydrogen services, to support business development.
 - Supporting the Business Development team to identify and secure future work.
 - Engagement in stakeholder groups and industry forums to gather market intelligence and disseminate the findings from EMEC's projects into the wider industry.
 - Participating in internal and external events to support the development of business, and dissemination activities relating to EMEC R&D.
 - Maintaining extensive knowledge of the energy storage / hydrogen market and feed this into the hydrogen R&D programme.
3. Support EMEC's operational strategy for the demonstration and testing of hydrogen projects, including:
 - Engagement with the Hydrogen Engineer and technicians to develop hydrogen plant processes and methodologies, adhering to strict H&S regulations.
 - Delivering pre-feasibility studies for integrated hydrogen site development.
4. 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.

5. From time to time carry out other assignments which may differ from the above as instructed by line management.
6. Work closely and flexibly with all EMEC staff from across the business.

Reports: There are no direct reports to this position.

Person Specification:

Education

Essential – Educated to a degree level in a relevant technical or scientific subject, preferably related to hydrogen.

Desirable – Post graduate degree in a discipline related to energy supply or demand.

Skills and knowledge

Essential – Excellent written communicator, numeracy and interpersonal relations. Computer literate in MS Office products. An ability to communicate complicated project ideas in a clear and concise manner using text, images, graphs, project plans and budgets.

Desirable – Familiarity with applicable codes and standards, such as PED and ATEX. Understanding of the renewable energy sector and energy systems monitoring/modelling. Knowledge of hydrogen plant technology.

Personal attributes

Essential – Self-motivated, able to develop agreed initiatives, owning the task but maintaining a strong relationship with the team at EMEC. Positive passion/bias towards low carbon technology. Well-developed sense of responsibility and integrity.

Desirable – Ability to interact well and familiarise with other disciplines, especially technical aspects.

Experience

Essential – Post-education experience in a service industry or energy sector.

Desirable – Experience in the conventional and renewable energy sectors, ideally in hydrogen technology.

Special conditions associated with the role

The role will involve UK and overseas travel for business activities.