

Position Description

Job Title:	CAD Manager
Office:	Pembroke Dock, Wales
Employment Type:	Full Time, Employee
Remuneration:	To be negotiated
Start Date:	January 2022
Line Manager:	Head of Engineering

Overview

Founded in 2012, Bombora is an award-winning ocean energy company with origins in Perth, Western Australia, now based in Pembroke Dock, Wales. Our innovative mWave converters will deliver clean, sustainable, utility scale electricity. Bombora wave farms will assist countries all over the world in their efforts to combat climate change and address their Net Zero commitments.

In 2022 Bombora will deploy its first full scale mWave into the waters off Pembrokeshire. We are also working with TechnipFMC and MOL to develop a floating wind and wave machine which will lead to the commercialisation of our technology.

Bombora is a dynamic and growing company, offering an excellent career opportunity for talented engineers interested in renewable energy.

Profile Description

Bombora is seeking a CAD Manager, with experience of innovative multi-disciplinary engineering projects, to deliver CAD modelling services for the development of the Bombora mWave technology. Working within a talented team of specialist engineers you will be expected to draw upon your skills and experience using computer aided engineering software to support the team. You will be UK based, preferably in west Wales or southwest England. You will be able to work from home but should be prepared to travel regularly to meet other members of the team or the supply chain.

Main Responsibilities

- Manage the in-house CAD function to deliver CAD services to support Systems Engineering and Project Engineering across all projects.
- Manage all in-house FEA analysis.
- Maintain the engineering data in the Autodesk Vault and develop the capability for access of non-CAD users including BoM management, Navisworks models.
- Manage the system level CAD model for each project and manage the many physical interfaces across the machine including those with external collaborators.
- Produce CAD geometry and documents to support the development of the machine and its various sub systems and operations.
- Produce and maintain professional documentation of designs including all 3D and 2D CAD models, detailed drawings, item specifications and accurate Bill of Materials.
- As the in-house team grows, some of the listed responsibilities can be delegated with the CAD Manager retaining responsibility for execution / delivery.
- Advise on the strategic development and growth of in-house CAD, FEA and PDM capability including hardware specification.



- Implement agreed strategic development plan for CAD and PDM capability on time and within budget.
- Lead and line manage the other members of the CAD team.
- Support the recruitment process to grow the in-house CAD and FEA capability and maintain the correct balance of skills and size of team appropriate for the forecast project workload.

Qualifications & Experience

- HND or equivalent qualification in a technical discipline.
- +10 years' experience using a mainstream CAD package in an employed capacity.
- Familiarity with a mainstream engineering simulation FEA package.
- Familiarity with engineering interface and change management procedures.
- Experience working with Autodesk Inventor™ is preferred.
- Experience working with Autodesk Vault™ is preferred.
- Experience working with Dassault Abaqus™ is preferred.
- Familiarity with ISO 9001 quality systems is preferred.
- Experience directing the work of other Design / CAD engineers is preferred.
- Highly conversant with Microsoft Office applications, preferably Office 365.
- Full and Current EU Drivers Licence.
- Eligibility to work in the UK.

Required Competencies

- Motivated and able to meet multiple and concurrent schedule demands.
- Ability to collaborate effectively with all team members.
- Good communication skills. Good spoken and written English (equivalent of => IELTS 7.0 in all categories).
- Able to work as part of a team and organise own workload to meet deadlines.
- Excellent practical understanding of manufacturing processes.
- Good analytical, communication, organisational and QA/QC skills.
- Ability to work independently, proactively and take guidance where necessary.

Line of Reporting

The CAD Manager reports directly to the Head of Engineering.

How to Apply

Applicants should submit an up to date CV together with a covering letter explaining why you are interested in the role and what relevant experiences you have. You should also provide names and addresses of two people that will act as your referees, one of which should be a business/professional contact. We will only approach them if you are successful in your application.

Applications should be emailed to recruitment@bomborawave.com. Please list the job title in the subject field. All applications must be received by 5pm on 16th December 2021.

Further Information

Bombora is an equal opportunities employer and has a proactive approach to parents with childcare responsibilities.

We also actively support Welsh language speakers and on request we can provide any of our documentation in Welsh. Please visit our website for further information.