

Design Engineer



Job Description

Mocean Energy is a high-growth start-up, seeking an Design Engineer to support the development of our wave energy products. The ideal candidate will have a background in Design Engineering for an offshore environment.

Company Profile



At Mocean Energy we have built an expert team combining scientific principles and real-world experience to develop new renewable technologies which can harness the power of waves – and accelerate the transition to a zero-carbon world.

While wave energy companies of the past have focused on large, utility-scale devices, Mocean develops products targeted at niche markets where wave energy has a significant value proposition. Our first product, Blue Star, is a small wave energy converter (WEC) used to power subsea equipment, supporting the energy transition in the oil & gas (O&G) industry. Future products will address industries from ocean science to utility-scale power.

Our technology is proven through offshore trials last year and further ongoing trials with customers and partners.

The next stages for Mocean are growing the team, becoming more commercially and operationally focused and developing larger scale technologies.

We value diversity on our team and thinking and are an equal opportunities and family friendly employer.

Opportunity

The Design Engineer will work on exciting wave energy projects and products, and will be part of a growing team.

A minimum 4 years of experience is required, with a focus on mechanical, structural, naval architect design in an offshore environment.

Mocean is a small, fast-growing start-up with a fun and enthusiastic culture. You will have exposure to a variety of aspects of business from technology, R&D to business management. You will have the opportunity to grow with us and help us reach our ambitions of developing wave energy to address climate change.

Skills / Experience

- Experience in design engineering for an offshore environment.
- Experience in naval architecture, mechanical engineering, structural engineering.
- Experience in material selection, component selection, producing drawings and calculation packages.
- Experience in applying codes, standards, & directives.
- Experience in project delivery and supplier management.
- Experience in drive train systems, bearings, seals, gearing would be an advantage.
- Understanding of mooring systems would be an advantage.
- Understanding of product qualification & development would be an advantage.
- Experience of fabrication and design for manufacture.

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Duties

- Execute R&D and commercial projects.
- Design, develop, and specify mechanical and structural material & components.
- Independently produce designs and drawings using SolidWorks and/or Inventor.
- Produce design documentation & reports.
- Follow company and industry process & standards.
- Produce test procedures.
- Manage and support suppliers.
- Review supplier documents and drawings.
- Engage with internal and external stakeholders.
- Work on site and be willing to work offshore.

Requirements

Education: Bachelor's degree in Structural, Mechanical, Naval Architecture or suitable relevant degree.

Experience: Preferably at least 4 years of mechanical/structural/naval architectural engineering experience, with practical hands-on experience in an offshore environment.

Qualities:

- Self-starter with a can-do, positive attitude.
- Excellent troubleshooting skills, strategic thinking skills and ability to work with complex problems.
- Experience working within small / start-up organisation.
- Willingness to travel and work on site and offshore.
- Well-developed planning / organisational skills.
- Willingness to engage in a wide variety of tasks.
- Diplomatic and confident communicator with strong interpersonal skills.

Details

Timeframe Accepting applications until 18th Sep 23, followed by interviews.

Location Aberdeen (preferred) or Edinburgh will be the regular place of work; some home working can be negotiated. Site visits onshore and offshore will be required from time to time.

Salary £40-50k depending on experience.

Benefits EMI share options scheme
Pension scheme.
35 days holiday (including public holidays).
Flexible hours, location and working pattern; some opportunity for remote working.

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Our Values and Culture

Mocean Energy is a purpose and values driven organisation with a strong focus on work-life-balance, inclusion, and diversity.

Our values are:

We are **PIONEERS**. We forge our own path driven by our curiosity and vision. We are willing to take bold and innovative steps.

We **TRUST** each other. We build that trust within our team, likewise with our business partners and stakeholders, by our integrity and honest communication, especially when faced with challenges.

We are **INCLUSIVE**. We create a work environment where each and every person can bring their whole self, can be accepted, and can flourish.

We are **GROUNDED**. We continually and critically assess our progress. We support our goals with robust engineering, realistic roadmaps, sound financials, and successful project delivery.