

Electrical Systems Engineer



Job Description

Mocean Energy is seeking an Electrical Systems Engineer to support the development of our ocean energy products. The ideal candidate will have a background in power electronics and electrical systems 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 the ocean – and accelerate the transition to a zero-carbon world.

While wave energy companies of the past have focused on large, utility-scale devices, Mocean Energy is starting with products for markets where ocean energy has a significant value proposition. Our first product, Blue Star, is a small wave energy converter (WEC) with solar and battery storage capability, delivering continuous power and communications to subsea equipment, supporting the energy transition in the offshore industry. Future products will address industries from ocean science to utility-scale power.

Our technology has a proven track record having successfully completed 18 months of sea trials, and being part of the world-leading Renewables for Subsea Power programme. The next stages for the company are growing our team, becoming more commercially and operationally focused, and developing larger scale technologies.

Mocean Energy is an Equal Opportunities and family friendly employer, we value our team's wellbeing and work life balance. We aim to create a safe and

inclusionary work environment where everyone feels like they belong. We are committed to offering support and making reasonable adjustments to allow full participation in the recruitment process. Please let us know of any requirements you have and we will consider any reasonable adjustments.

Opportunity

The Electrical Systems Engineer will work on exciting ocean energy projects and products and will be part of a growing team.

Preference will be given to candidates with industry experience, a focus on power electronics, and electrical systems in an offshore environment.

Mocean Energy is a small, fast-growing start-up with a fun and enthusiastic culture. You will have exposure to a variety of aspects of the 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.

Duties

- Design, develop, and specify electrical systems
- Produce design documentation & reports
- Produce system schematics using 2D software
- Produce test procedures
- Manage and support suppliers
- Review supplier documents and drawings
- Monitor and optimise system performance
- Engage with internal and external stakeholders
- Work on site and be willing to work offshore and travel for site visits to suppliers etc.
- Support our QHSE department to produce technical qualification, health and safety documentation.

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Requirements

Education: Bachelor's degree in Electrical or Electronic Systems, Automation and Control or suitable relevant degree.

Experience: electrical systems experience with practical hands-on experience in an offshore environment or equivalent relevant experience.

Please note that having 5+ years of experience represents a significant advantage.

Appropriate documentation of practical qualifications and competency will be requested.

Desirable Skills and Experience

- Engineering experience in power electronics, instrumentation, and electrical systems. Practical hands-on implementation of electrical systems
- Understanding of generators, power converters, rectifiers and inverters
- Understanding of controls & communications systems
- Understanding of product qualification & development
- Experience in applying codes, standards, & directives
- Competency in managing High Voltage as part of the overall electrical system

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 or start-up organisation
- Willingness to travel and work on site and offshore.
- Well-developed planning and organisational skills
- Willingness to engage in a wide variety of tasks
- Diplomatic and confident communicator with strong interpersonal skills
- Cultural fit within the wider organisation
- Enthusiastic and passionate about our mission
- Ability to see the bigger picture
- Effective team contributor

Details

Timeframe Accepting applications until Monday 14 October 2024, followed by interviews (likely to take place w/c 4 November 2024).

Location Aberdeen 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 £50k - £65k depending on experience.

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

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Our Purpose and Vision

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

Vision

People living in harmony with the ocean and each other through sustainable technology.

Mission

Mocean pioneers technology for harvesting energy from ocean waves – using scientific insights, environmentally-informed engineering, and real-sea testing – to deliver reliable products that increase access to renewable energy for grid-connected and off-grid users while respecting the natural environment.

Our values

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