

# Test Engineer



## Job Description

Mocean Energy is a high-growth start-up, seeking a Test Engineer to support the development of our wave energy products. The ideal candidate will have a background in science and engineering related to testing and analysis of offshore technologies.

## 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 trials with customers and partners in 2022-23.

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 Test Engineer will support the experimental research and innovation related to the development of Mocean's wave energy technologies. With data acquisition, analysis and reporting skills, they will support the design and testing of scale models, the testing of offshore prototypes and the development of products.

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 commercial engagement and management. You will have the opportunity to grow with us and help us reach our ambitions of developing wave energy to address climate change.

You will likely have an MSc or PhD, work experience in science, physics or engineering, preferably related to offshore technologies, and the right to work in the UK.

## Duties

- Processing and analysis of data from wave tank testing, test rigs and offshore deployments.
- Support of numerical modelling validation.
- Development of experimental test rigs, WEC models, test plans, and carry out test campaigns.
- Responsibility for instrumentation for offshore testing and other test rigs.
- Analysis of wave and other environmental data
- Engagement with research and innovation projects.
- Evaluation of the physics and engineering of wave energy technology
- Development of electrical and control systems for full-scale commercial products, and systems integration testing.

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## Requirements

**Education:** Masters degree or PhD

**Experience:** Work experience in science, physics or engineering preferably related to offshore technologies.

Right to work in the UK.

### Qualities:

- Analytical and quantitative mindset
- Creative problem solver
- Self-starter with a can-do, positive attitude.
- Experience working within small / start-up organisation
- Well-developed planning / organisational skills
- Willingness to engage in a wide variety of tasks
- Diplomatic and confident communicator with strong interpersonal skills
- Enthusiastic, passionate about our mission
- Ability to see the bigger picture
- Work well within a team
- Alignment with our values of diversity, equality and inclusion

## Details

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**Timeframe** Accepting applications until 17 March 2023, followed by interviews.  
Expected start in April/May

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**Location** Aberdeen or Edinburgh is preferred, but we are flexible on location / home working

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**Salary** £40-50k depending on experience.

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**Benefits** EMI share options scheme  
Pension scheme  
35 days holiday (including public holidays)  
Flexible hours and working pattern.

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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:

**Trust:** we are confident in each other's abilities to operate independently but know that when we need support our team is there to give it. We are honest with ourselves and others, within and outside Mocean, in both our successes and failures.

**Expertise:** we lead the world in developing wave energy in all aspects (technology, commercial, projects, operations, management, etc.) supported by our experience, passion and creative intuition.

**Awesomeness:** we like what we do and think it's awesome.

**Morals:** we make decisions and take actions, using our own judgement, in order to do good in the world, in particular, to address the challenges of climate change.