

### JOB SPECIFICATION

<b><u>Position:</u></b>	Naval Architect / Offshore Design Engineer
<b><u>Department:</u></b>	Engineering
<b><u>Reporting to:</u></b>	Director
<b><u>Qualification:</u></b>	Degree or Postgraduate qualification in Naval Architecture or Engineering
<b><u>Location:</u></b>	UK – Remote (office working as required)
<b><u>Salary:</u></b>	Competitive

#### **Scope of position:**

- Engineer Level member of the engineering team, involving close working with all functions of the company.
- Provide support to the company's technology development roadmap.
- It is critical that the individual assuming the role is both versatile and a true team-player, with an ability to pre-empt and support a broad range of tasks.
- Flexibility in the role is a key requirement, particularly when working to tight deadlines.

#### **Main Duties & Responsibilities**

- Proactively work with and support the engineering leadership.
- Ensure rigour in the design approach, on the integrity and quality of the design concepts and the delivery of detailed designs of the selected concepts.
- Principally responsible for supporting delivery of:
  - Numerical Analysis of offshore floating systems,
  - Validation of numerical modelling through prototype testing,
  - Mooring design including novel component specification to DNV standards,
  - Analysis of data obtained during R&D Test Campaigns, and
  - Engineering consultancy activities.
- All analysis to be undertaken using combination of industry dynamic multi-physics standard software, internal post-processing tools, and manual calculations.
- Creating clear and concise technical reports for verification and dissemination.
- Technical and project management support on company projects.
- Ensure that delivery of design output meets or exceeds quality, cost and time drivers.
- Proactively work with and support procurement and the manufacturing activities as end users of the designs:
  - Prepare component specifications and liaise with suppliers on procurement.
  - Develop method statements with the manufacturing and operations partners.
- All component design to be performed using 3D CAD with the design output as 2D drawings.
- Ensure that all design work is performed as defined within Quality Management System including review, approval, revision control and filing of design output and reporting.
- Support to Operations as required.

**Requirements- Essential Skills / Attributes**

- Excellent hydrodynamic and numerical analysis skills.
- Experience in Orcaflex preferred. Experience in other hydrodynamic packages welcome. Experience in running aerodynamically coupled models (eg FAST) welcome.
- Excellent presentation and report writing skills.
- Strong analytical skills with excellence in Microsoft Excel, Matlab, and other computing / programming languages.
- Enthusiastic, positive and proactive nature.
- Excellent interpersonal, communication, and team working skills.
- Practical, creative approach to design with an emphasis on simplicity of design, manufacture and operation.
- Ability to interpret test data and seek innovative solutions for design enhancement.
- Commercial awareness and experience of managing/working within budgets.
- Excellent work ethic & flexibility.
- Fluent / Native English speaker.
- Valid work permit / visa to work in UK.

**Desirable Experience**

- 0 - 5 years industry experience.
- Product Research, Design & Development experience.
- Floating Offshore Wind: platform and mooring systems – analysis and design.
- Knowledge / experience of python programming language.
- Knowledge of the DNV certification process.
- Experience of designing industrial components.
- Knowledge of renewable energy systems and the marine environment.
- Client facing experience.

**Other**

- Travel will be required within UK and Internationally from time to time.
- Duties may vary during the course of the employment and are at all times at the discretion of engineering leadership.

**Application Process**

- CV and Cover letter to be submitted to [hello@dublinoffshore.ie](mailto:hello@dublinoffshore.ie) with subject 'Naval Architect / Offshore Design Engineer' by 22nd April 2023.