

## Job Description

|                      |  |                     |                            |
|----------------------|--|---------------------|----------------------------|
| <b>Job Title</b>     | Graduate Analysis Engineer                         |                     |                            |
| <b>Job Reference</b> | JD-006-TEL (Graduate Analysis Engineer) April 2023 |                     |                            |
| <b>Department</b>    | Engineering  | <b>Line Manager</b> | Engineering Design Manager |

### Job Purpose

Tekmar Energy are pioneers in the Offshore Wind Industry and have a reputation for delivering technical solutions to a wide range of subsea asset protection applications. **Working for Tekmar Energy**, the Graduate Analysis Engineer will be required, as part of a team to be involved in the delivery of dynamic analysis and finite-element services for the Offshore Wind and Oil & Gas sectors. The Graduate Analysis Engineer will contribute towards the continuous improvement of analysis techniques and work with software such as; OrcaFlex, and Ansys.

This role requires an ambitious and motivated individual, someone possessing good interpersonal and communication skills and have a strong interest in all aspects of the business.

### Key Responsibilities

The duties of the role will include, but not be limited to the following:

To learn, develop and progress within Tekmar under guidance of the Engineering Team, underpinned by the determination and self-drive to learn new skills.

Preparing analysis input data – liaising with the Engineering Team to ensure the most appropriate data is available and utilised.

Building analysis models.

Using scripting to increase efficiency.

Running simulations and interpreting results.

Suggest engineering solutions to analytical challenges.

Compile technical documents to support the development, sales, project, and manufacturing phases.

| PERSON SPECIFICATION   | Mandatory | Desirable |
|--|-----------|-----------|
| <b>Knowledge and Experience</b>  |           |           |
| Conversant with using design FEA analysis tools such as ANSYS, Abacus and Finite element theory.                                     | X         |           |
| Experience with Orcaflex   |           | X         |
| CAD skills such as Autodesk and Inventor.  |           | X         |
| Knowledge of scripting (Python/MATLAB or similar)  | X         |           |
| Capability of producing/checking engineering calculations by hand and with common software such as Excel and Mathcad.                | X         |           |
| Possess a good understanding of engineering principles, such as mechanics and heat transfer to deliver engineering design solutions. | X         |           |

|   |   |   |
|---|---|---|
| Able to identify and work with colleagues to develop innovative proposals for new work. Take ownership of design/analysis activities and take appropriate corrective actions. | X |   |
| Experience of Subsea engineering and Offshore Wind farms  |   | X |
| Strong written and verbal communications skills.  | X |   |
| <b>Skills and Qualifications</b>  |   |   |
| <ul style="list-style-type: none"> <li>1<sup>st</sup> of 2:1 Mechanical Engineering Degree.</li> </ul>  | X |   |
| <b>Behavioural Competencies</b>   |   |   |
| <ul style="list-style-type: none"> <li>Good first principles mechanical engineering capability.</li> </ul>  | X |   |
| <ul style="list-style-type: none"> <li>Analytical and questioning thinking.</li> </ul>  | X |   |
| <ul style="list-style-type: none"> <li>Problem solving.</li> </ul>  | X |   |
| <ul style="list-style-type: none"> <li>Willingness to learn and develop design skills.</li> </ul>   | X |   |
| <ul style="list-style-type: none"> <li>Excellent organisational and time management Skills</li> </ul>   | X |   |
| <ul style="list-style-type: none"> <li>Ability to work under pressure and meet deadlines.</li> </ul>  | X |   |
| <ul style="list-style-type: none"> <li>Excellent communication skills to interact with both internal and external clients with confidence.</li> </ul>                         | X |   |
| <ul style="list-style-type: none"> <li>Positive and flexible attitude to get the job done.</li> </ul>   | X |   |
| <ul style="list-style-type: none"> <li>Organised and able to manage own workload.</li> </ul>  | X |   |
| <ul style="list-style-type: none"> <li>Enthusiastic about Engineering.</li> </ul>   | X |   |
| <ul style="list-style-type: none"> <li>Excellent attention to detail.</li> </ul>  | X |   |
| <b>Our Vision, Mission &amp; Values</b>   |   |   |

**VISION**

To enable the world's energy transition, reflecting our responsibility to future generations.

**MISSION**

Collaborating with our stakeholders, we will deliver robust, sustainable technology and services utilising our talented and diverse team that will enable the Group to grow significantly and profitably.

**VALUES**

