



## **Senior Asset Integrity Engineer (Mechanical) – Asset Integrity Team – London Array Limited**

### **Based in Ramsgate, Kent**

*London Array Limited is a consortium of three world-leading renewable energy companies – RWE, Orsted and Masdar – and La Caisse de dépôt et placement du Québec (Caisse), one of Canada's leading financial institutions. With 175 turbines and a capacity of 630 megawatts (MW) it is the world's largest offshore wind farm, occupying an area of 100km<sup>2</sup> in the outer Thames Estuary between the Kent and Essex coasts.*

### **Role purpose**

The Senior Asset Integrity Engineer will focus on optimising the operational life and yield of the London Array offshore Windfarm by analysing, understanding and reporting on the performance, status and health of all Structural assets. The primary focus for the role shall be the offshore foundations and their associated interfaces. The Senior Asset Engineer will develop an advanced understanding of all individual risk profiles, and either individually, or working with technical authorities, specialists and stakeholders including asset designers / OEMs, develop and implement cost-effective risk mitigation strategies where required. Duties will include but not be limited to: data-mining, trend analysis, proactive diagnosis, undertaking complex or systemic asset health investigations, reporting on all elements of individual turbine or whole windfarm system and operational performance. The Senior Asset Integrity Engineer, as part of the wider asset integrity team will also be responsible for implementing mitigations and solutions that will reduce through life asset risk and maximise yield. The role will be performed within the environment of the LAL Asset Integrity Team; a small but highly experienced team of Engineers, Specialists and Analysts with over 40 years' experience in the Wind Energy industry.

### **Reporting lines**

**Reports to:** Engineering Manager – Asset Integrity Team

### **Primary responsibilities**

- Report accurately on the performance, status and health of London Array assets.
- Adhere to and operate within the long-term AIM framework, delivering a systematic approach to Asset Management.
- Using data mining and trend analysis identify and classify issues resulting from defective manufacture, assembly, installation, commissioning or maintenance.

- Use analytical and statistical tools to perform detailed analysis and create reports of the reliability and performance of all structural assets, such as WTG foundations.
- Develop deep understanding of subsea assets, Park seabed morphology, WTG foundation health, WTG loads in order to build a holistic approach to asset management.
- Support the Engineering Manager with driving technical experts from OEMs, Specialists, Consultancies and other Service Providers towards solutions and review proposed solutions.
- Support the delivery of and challenge root cause analysis studies where appropriate. Manage test and implementation plans for proposed solutions in order to analyse and verify solution effectiveness.
- Optimise and manage condition monitoring systems, report and flag trends of concern.
- Opportunity to expand technical responsibility to Mechanical systems / sub-systems of the WTG with relevant experience / knowledge.

### **Span of communication**

- **Internal:** Asset Integrity Team, Wider LAL Team
- **External:** Contractors, Suppliers, Service Providers, OEMs

### **Qualifications, experience and skills**

#### **Preferred qualifications**

- Masters Degree in Engineering, working towards chartered status

#### **Preferred experience**

- 5 years+ working with Structural Assets, with experience of subsea / offshore foundation design or asset management.
- Experience of the use of advanced data handling and analysis systems and solutions is an advantage.
- Experience of developing or utilising predicative health tools for asset management purposes is an advantage.
- Wind / Renewable Energy experience is an advantage.
- Wider knowledge of other mechanical disciplines such as mechanical transmissions, rotating equipment, bearing tribology is an advantage.

#### **Role-specific skills**

- Structural integrity experience and technical competence.
- Ability to analyse large data sets, identify trends, make and review recommendations.
- Ability to quickly produce detailed technical reports.
- Data-driven and solution-oriented.
- Organised and methodical approach.
- Flexible and willing to learn complex new systems from scratch

### **Behavioural competencies**

- Communicative, detail oriented and flexible team player who is highly technically intuitive, motivated and a self-starter.