Senior Stress Engineer (Contract)

We are now seeking an experienced Senior Stress Engineer to play a key role in the analysis, verification, and substantiation of mechanical engineering designs across a diverse portfolio of projects.

In this role, you will produce and check calculation and analysis reports, ensuring designs are robust, compliant, and fit for purpose. You will provide technical guidance, support design development, and contribute to the delivery of safe, efficient, and innovative engineering solutions while maintaining the highest standards of quality and compliance.

Below is an outline of duties and responsibilities:

- Deliver stress analysis and calculation activities to agreed scope, cost, and schedule, providing early visibility of technical risks and programme impacts.
- Produce and check calculation reports using both classical hand calculations and finite element analysis (FEA) techniques to substantiate the design of mechanical handling equipment, lifting equipment, gloveboxes, and associated structures.
- Identify calculation and substantiation requirements, considering applicable design codes, operational requirements, failure modes, and legislative compliance.
- Apply relevant engineering standards and design codes, including BS 2573, BS EN 13001, Structural Eurocodes, and associated industry requirements.
- Provide technical guidance to designers and engineers, supporting design optimisation, material selection, manufacturability, and the resolution of engineering challenges.
- Undertake verification and validation activities, reviewing calculations and analysis completed by others to ensure accuracy, quality, and compliance.
- Liaise with clients, suppliers, and subcontractors to establish substantiation requirements, review analytical work, and ensure project objectives are achieved.
- Support wider analytical activities where required, including seismic assessments, thermal, fluid, and operational performance analyses.
- Contribute to the development of new calculation methods, engineering standards, and continuous improvement initiatives to enhance capability and efficiency.
- Supervise and mentor engineers, sharing technical knowledge and supporting professional development across the team.