

Lead Structural Engineer – Role Description

About us!

Frewer Engineering is a Small to Medium-sized Enterprise (SME) consultancy working across a broad range of industries. Our work typically includes a combination of detailed design, structural analysis, fluid dynamics and thermal modelling. This role covers our **Structural Analysis** capability specifically.

Our mission is to provide **innovative, creative, and sustainable solutions** to complex engineering problems. To help achieve this, we're looking for people that can bring **diverse perspectives and ideas** and as such, we are committed to ensuring that we offer an inclusive environment for all our staff.

Team fit and company culture are paramount in our recruitment process. We are a **dynamic, high-talent, close-knit special projects team. Authentic enthusiasm** for the profession is counted as highly as **academic achievement**.

Frewer Engineering prides itself on offering an agile working environment, tailored to developing engineers from graduate level, through chartership and beyond. Good ideas are always listened to by the people who can help make them happen. Engineers are offered significant **responsibility, autonomy and ownership** of key projects and tasks. The variety in size and complexity of our work provides opportunities to gain experience across a broad array of topics.



Agile
Swift, accurate & cost-effective response



Sustainable
Contributing to a low-carbon, circular economy



Secure
Respectful of client & project confidentiality



Customised
The right solution for customers' individual needs



Cutting-Edge
Investing in new tools, technology & staff development

Benefits

Frewer Engineering offer a range of benefits to our employees including:

- Competitive salary
- Comprehensive Private Healthcare via Bupa (including mental health support and dental cover).
- Bonus scheme typically paid twice annually (dependent on company performance & forecasts).
- Mentoring, funded professional development training and support.
- Competitive company pension and life insurance schemes.
- Cycle to work Scheme.
- Social events with the wider team.

Hybrid Working

Our hybrid working model combines remote work and office-based work, allowing individuals to work both from the company's physical premises and from remote locations. The purpose of this policy is to:

- Promote flexibility and work-life balance.
- Maintain a predominantly face-to-face coaching culture within the business.
- Ensure business continuity.
- Maintain a collaborative and productive work environment.
- Safeguard the well-being and safety of employees.

Job Description

As a Lead Structural Engineer, you will undertake the following:

- Support to the governance of structural analysis work completed throughout the organisation, holding responsibility for issued data, in line with customer requirements and recognised standards, reporting to the Technical Authority (TA) Structures.
- Structural Analysis
 - Broad knowledge of linear, non-linear, modal, transient and high strain rate analysis methods, including the use of finite element analysis
 - Broad knowledge of thermal analysis, including thermo-structural interaction modelling methods
 - Knowledge of the mechanical properties of metallic and non-metallic materials, including carbon and glass composite materials
 - Desirable knowledge of explicit finite element analysis codes.
 - Desirable knowledge of vibration, shock, impact and blast analysis.
- Support to Wider Organisation
 - Growth of structural engineering capability and expertise within the organisation
 - Leading and presenting structural aspects of internal & external Design Reviews as required.
 - Reviewing of designs and making recommendations on how to proceed regarding material upgrades, design modifications for stress reduction, fatigue life improvements, lightweighting, etc.
- Project Management
 - Supporting resourcing and work-sharing to manage workload across the business.
 - Communicating technical and commercial developments to the Senior Management.
- Business Development:
 - Lead author of commercial proposals including technical content, programme, and costings.
 - Shared responsibility for winning new business with existing and new customers.
 - Attendance and visits to customer sites, trade shows and conferences, representing company.
- Technical Reporting & Communication
 - Lead author of technical reports and documentation.
 - Checking & approval of analyses, technical reports and documentation authored by others.
 - Creation of technical presentations and content to aid customer engagement and discussion.
 - Clear written and spoken communication - direct liaison with customers and suppliers.
- Leadership & mentoring
 - Mentoring and coaching of graduates, engineers, lead engineers and consultants.
 - Role model in all regards of professional work, with particular focus on structural assurance.
 - Packaging and delegation of work to junior members of team.
- Continuous Professional Development (CPD)
 - Chartered CEng Status assumed for Lead Engineer position - actively working towards an advanced professionally accreditation (e.g. Chartered Manager or Fellow status).
- Promote STEM Education & Awareness
 - Spearhead and participate in STEM outreach events or programs, aimed at promoting engineering and analysis disciplines to students and the community.
 - Collaborate with local schools, educational institutions, and community organizations to organize engaging STEM activities, workshops, or mentorship programs.

Location

Frewer Engineering is based near Ockley in Surrey. The office location is remote, as are many of our customer's sites. As such, it is essential that all staff have a full driving license valid in the UK prior to commencement of the role.

As the role is nominally office-based, applicants will need to be willing to relocate. Office-based work is preferred during the probationary period, after which our hybrid working policy shall apply. As this position requires mentoring, coaching and leadership, the need to be on-site for work in-person may be elevated at times as part of the role, for example during periods of project start-up, high recruitment or for new starter on-boarding.

Equal Opportunities

Frewer Engineering is an equal opportunities employer. We highly value diversity and inclusion and welcome applications from candidates from all backgrounds. Note we will not use any personal information relating to your background at any stage of the application process.

How to apply!

Email your CV, cover letter and portfolio (desired but not essential) to info@frewer-engineering.com