

JOB DESCRIPTION

FE ANALYST FOR ADVANCED ENGINEERING GROUP



Location: London
Salary: Negotiable
Job role: FE Analyst
Job type: Permanent

KW Ltd is an independent engineering company offering design and analysis as well as specialist consultancy and third party support services in Subsea Pipelines and Structures. We also provide specialist services in marine and coastal engineering, and in the emerging wind farm sector.

We have an international reputation for independent, innovative and high quality engineering. Our clients appreciate our flexible and responsive service, delivering added value in the form of safe, reliable and cost effective solutions.

The company has an impressive track record serving oil and gas majors and independents, installation contractors and suppliers. Our strength and differentiator is in the technical excellence and attitude of our team: we employ highly experienced engineers with wide ranging competencies in structures, geotechnical, civil and mechanical engineering. We have the ability to deliver tailored solutions whether in the context of conventional Subsea tie-back projects in the North Sea, or of some of the most challenging projects worldwide involving deepwaters, HPHT and extreme natural environments.

We are currently in the process of consolidating our Advanced Engineering Group. This group provides consultancy to a wide range of external clients in the energy sector and internally to KW projects. The main focus of the group is on non-linear finite element analysis.

Our growth is driven through international expansion; we have a growing international portfolio, currently covering the North Sea, North Africa, West Africa, East Africa, the Arabian Gulf, India, Mexico and Malaysia.

We are seeking an **FE Analyst** interested in developing a technically challenging career to join our team in London.

You can check out our website at www.kwLtd.com for further information.

Reporting to:

- Head of Advance Engineering Group

Key Responsibilities and Duties:

- Perform engineering duties as advised under supervision of assigned, Lead Engineer, Project Manager or supervisor
- Take responsibility for engineering tasks, and perform associated calculations and analysis
- Contribute to development of engineering technology and tools
- Liaise with other members of the project team
- Ensure compliance with corporate and project QMS and HSE procedures
- Proficient in writing design reports and calculation sheets
- Undertake research and development projects
- Contribute to the Company Technical and Marketing Publications and presentations

Required Competencies and Experience:

- Ability to work from first principles
- Understanding of the fundamentals of Finite Element modelling theory
- Strong analytical and problem solving skills
- Technical writing skills
- Experience in non-linear finite element preferred
- Working knowledge of Abaqus preferred
- Fracture mechanics experience preferred
- Experience in subsea or pipeline engineering not necessary but would be valued
- Post graduate experience not required but would be valued

Preferred Software Experience:

- Abaqus
- Programming in Python, Fortran and/or Visual Basic or others
- Orcaflex/Flecom or similar
- Mathcad
- MS Word and Excel

Qualifications:

- First class engineering degree
- Specialist Masters and/or PhD on numerical modelling preferred

Other

- Willingness to travel on international assignments preferable

Possibility of final year research project collaboration/sponsorship with KW Ltd would be considered.