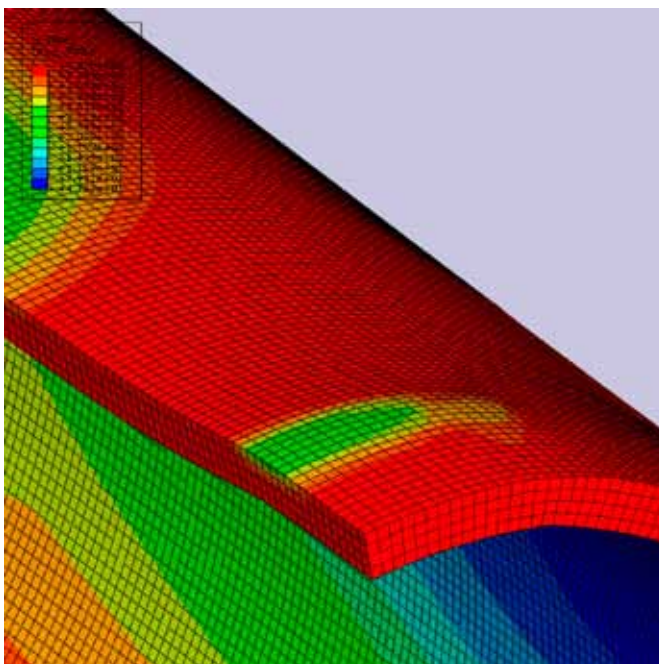
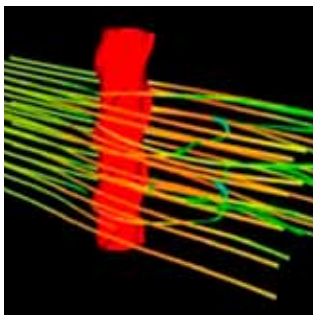


# FEA and CFD

## Capability statement



Finite element analysis (FEA) and computational fluid dynamics (CFD) are software tools used to accurately simulate complex engineering models and analyse behaviour.

### The right people for the job

Jee has many years of experience in utilising FEA and CFD to solve engineering problems and so our engineers are adept at handling a broad range of projects.

Our FEA and CFD packages are used regularly within day-to-day consultancy work. Solutions we deliver are accurate and cost-effective as they are delivered quickly.

Our team is headed by a NAFEMS registered analyst and has many years of experience in the field of offshore pipeline and subsea engineering. This makes Jee the preferred choice for subsea pipeline FEA and CFD.

### Quality at Jee

We use industry renowned FEA and CFD software packages. These are just tools though and it is our specialist experience that allows us to understand what is being modelled and the resulting behaviour.

We have expert insight into suitable input parameters, constraints and results obtained to verify the outputs of the package. As consultants of subsea and pipeline engineering, we deliver complete and accurate solutions to problems requiring CFD or FEA analysis.

We have a rigorous quality checking system and we are proud to be certified by Lloyd's Register QA to ISO9001 for "Provision of pipeline engineering services to the oil and gas industry" since 1995.

### Proven track record

- ✦ Pipeline Engineering 2008 – Bend restrictor design
- ✦ Balmoral Offshore Engineering 2008 – Bend restrictor design verification
- ✦ Oceaneering Multiflex 2006 – Thermal finite element analysis of a trenched umbilical
- ✦ BP 2006 – Finite element analysis of mechanical connectors
- ✦ Trelleborg CRP 2005 – Effect of fins on pipeline riser fairings
- ✦ Bredero Shaw 2004 – Thermal analyses of Kizomba B gas lift injection cabinets

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Jee were asked to perform FEA on a complex assembly of components. The service offered surpassed expectation and is fully recommended.

Karl Dawson, Engineering Manager, Pipeline Engineering Solutions

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### List of related services

- ✦ Mechanical connectors
- ✦ Span vibration monitoring and assessment
- ✦ Trenching and non-trenching
- ✦ Joint industry projects
- ✦ Pigging
- ✦ Standards and codes
- ✦ Product development
- ✦ Fishing interaction
- ✦ Riser analysis
- ✦ Decommissioning

### For more information

To find out how Jee can help manage and implement your engineering projects, please call us on +44 (0) 1732 371 371 or email [info@jee.co.uk](mailto:info@jee.co.uk).



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