

Product development

Capability statement

Jee offers a complete product development service, from the initial concept stages through to product testing and installation in live operations.

Why Jee

Working at the forefront of design and development is integral to our business. We have been involved in the development of a number of innovative customised product solutions to our clients' problems.

Product development requires a mix of design, testing and analysis skills alongside a detailed knowledge of operational procedures and scenarios. Our team of engineers has been working on a wide variety of subsea projects for over twenty years.

Product portfolio

Products which we have developed so far cover hardware for clients as well as services linked to our own hardware.



Left: DCAT model
Below: Deployed span monitoring kit



✦ **Diverless connection assembly tool (DCAT):** Developed with the collaboration of CUEL to provide a method of installing mechanical connectors subsea without the need for divers by utilising Grayloc mechanical connectors and an ROV. Jee worked on the project from the concept development through to fabrication and testing of the tool.

✦ **Pipeline span monitoring kit:** This has been developed to measure the movement of freespanning sections of a pipeline to determine whether they experience vortex-induced-vibrations and under what environmental conditions. Experienced engineers analyse the data to give an assessment of the expected life of the span.

✦ **Acoustic vibration testing rig for BP Schiehallion:** This was a joint industry project to determine the fatigue life of small bore topside connections that were being vibrated by the flexible riser shedding vortices. Jee designed and fabricated the testing rig which was then used in air and water tests to find the expected fatigue life and then recommended methods to extend it.

Proven track record

- ✦ Chevron Thailand 2008 – In-situ monitoring and assessment of nine pipeline freespans over a two year period
- ✦ KBR 2008 – Barrow wind farm cable spans: in-situ monitoring of cable motion
- ✦ CUEL 2004 – DCAT development

Jee has delivered a very high-quality of support throughout the project, from initial tool selection right through to the execution phase.

Matthew Doherty, Pipeline and Risers Engineer Subsea and Pipelines Team, BP North Sea SPU Operations

List of related services

- ✦ Span vibration monitoring and assessment
- ✦ Mechanical connectors
- ✦ Trenching and non-trenching
- ✦ Joint industry projects (JIPs)
- ✦ Pigging
- ✦ Standards and codes
- ✦ 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.



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