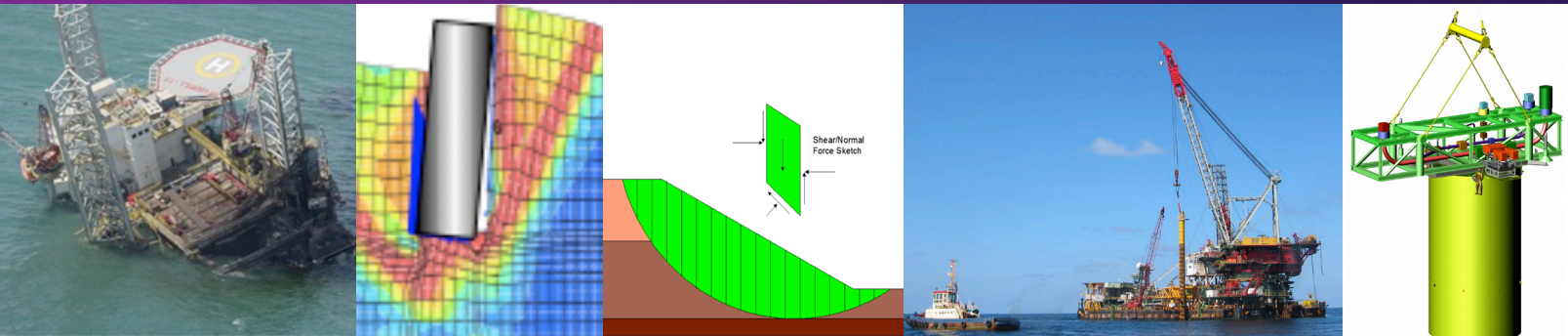




Geotechnical Consulting Services



Geomarine is an international marine geotechnical service provider, specialising in the global oil and gas, renewable, telecom and subsea mining sectors.

A subsidiary of UTEC Survey, Geomarine provides a wide range of consulting geotechnical services over the project life cycle including expert engineering analysis, design and specialist supervision operations. The company is committed to providing innovative, value focused solutions to the challenges of these complex and demanding industries.

Geomarine's mission is to be the preferred specialist engineering service provider in support of all of the geotechnical related activity faced by our customers. With in-depth experience of all stages of the offshore design and construction process Geomarine is uniquely positioned to provide Clients with an independent, comprehensive and focused service which fully meets their consulting requirements.

Geomarine's expertise has been gained through working alongside a range of clients from developers, contractors and designers. The insight gained through this work enables us to provide a service which synthesises all the constraints from initial design, structural fabrication, installation and operation.

Our key differentiator is that our consulting services include a clear and practical understanding of our client's business drivers, and their expectations. People are Geomarine's key resource. Company staff are all experienced and respected in their particular fields.

Geomarine owns and uses specialist software for design work including spread foundation design programs, design programs for driven and suction piles, and finite element analyses for geomechanical, structural and fluid mechanics problems.

Our consultancy services include:

- Desk studies
- Survey planning, project management and supervision
- Earthquake engineering, i.e. assessing tectonic activity, determining particle acceleration and assessing liquefaction potential;
- Geology, i.e. assessing borehole logs, CPTs, lab tests and samples to gain a detailed understating of soil conditions;
- Interpretation of geophysical data, i.e. correlating geophysical data with geotechnical data to gain a full understand soil conditions.
- Trenching and burial assessment
- Pipeline soil interaction
- Remote geotechnical tooling equipment design
- Foundation design including:
 - Gravity base foundations
 - Piled foundations
 - Suction piles
- Spud can penetration analysis
- Anchoring including:
 - Drag embedment anchors
 - Suction pile anchors
 - Drilled and Driven anchor piles
- Post construction review
- Research and development projects