

# LEAD GEOTECHNICAL ENGINEER

## THE COMPANY

Empire Engineering is a UK based company providing specialist consulting engineering services to the offshore renewable energy sector. We are actively working in the offshore wind industry and our Lead Geotechnical Engineer strengthens our services. This allows us to better serve our existing Clients as well as develop new business.

As a company we aim to provide the very best technical expertise to our Clients and provide a stimulating and enjoyable working environment to our staff. We have established a company culture based on striving for technical excellence, providing exceptional customer service, and enjoying what we do along the way.

We are a small and growing private company, run by engineers. We choose to work within renewable energy because of the technical challenges it presents to us as engineers, and the benefits it offers to humankind.

## THE ROLE

The Lead Geotechnical Engineer for Empire Engineering is in a Client facing role, working on a range of offshore wind projects. They are expected to specify and manage site surveys and laboratory testing programmes on behalf of Clients, as well as perform geotechnical interpretation of soils feeding into soil structure interaction models for foundations design.

They are responsible for carrying out and/or analyse driveability assessments and considering relevant information from the pile installation contractor. They engage with the installation contractor to establish the most optimal pile installation procedure and to evaluate the impact on the foundation design.

They are responsible for reviewing and commenting on seismic analysis while possessing knowledge about how seismicity interacts with and impacts the foundation design.

The Lead Geotechnical Engineer's role includes interpretation of soils and is responsible for performing various analyses relating to the conceptual design of offshore wind turbine foundations, including hand calculations, finite element analysis and fatigue analysis, according to applicable codes and standards.

They are involved with project management, both internally to Empire Engineering, as well as managing external projects for Clients.

Some travelling for the position is expected, primarily within Western Europe, to attend meetings and perform site visits or inspections. Longer-term secondments to Client offices may also be part of their role.

As a small and growing company, the Lead Geotechnical Engineer is also involved to some extent with business development, and they are responsible to front the development of geotechnical services on behalf of Empire Engineering amongst existing and new clients.

## THE INDIVIDUAL

The successful applicant holds a degree in Geotechnical, Civil or Structural engineering, with 8+ years of experience in the offshore engineering sector, the majority of which spent in the offshore renewables industry.

Knowledge of structures, offshore installation, and dynamics of offshore wind turbine foundation is also important, as is experience working with certification agencies such as DNV-GL, Lloyds Register and Bureau Veritas etc.

The Lead Geotechnical Engineer is also a strong communicator (both written and in meetings/presentations) and works well in a team.