FOUNDATIONS ENGINEER AND TOOL DEVELOPER

THE COMPANY

Empire Engineering is a Bristol based company providing specialist consulting engineering services to the renewable energy sector. We are actively working in the offshore wind industry and are presently looking to expand by opening new offices in London and Edinburgh. This will allow 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

You will be leading the on-going development of our in-house offshore wind turbine foundations concept design tool FATHOM. Our current code is in Matlab, and you will be expected to further develop this. Conversion of the code into a more appropriate language such as Python is also being considered.

You will be supported by our team of experienced offshore structural engineers, who will help shape the direction of the development with you and will be able to provide specific offshore wind guidance if required. In addition to leading the development of FATHOM, you will also be involved with foundations concept design work using proprietary software such as DNV's SESAM-GENIE.

Some travelling for the position should be expected, primarily within Western Europe to meet with Clients. Longer-term secondments to Client offices may also be offered.

Remuneration will be commensurate with your skills and experience. As a small company, our success is closely linked to your personal performance, and as such we will look to reward and retain high performing staff. For our very highest performing staff Partnership in the firm may also be offered.

The role is based in our Bristol office.

THE INDIVIDUAL

We are open to two distinct types of candidates. You will either be an experienced offshore structural engineer with very strong coding skills. Alternatively, you're a very good programmer who has experience developing structural engineering tools.

The successful applicant will have 5+ years of experience in a relevant role. You will enjoy the challenge of creating code, and have experience with codes such as Matlab, Python or similar.

Knowledge of geotechnics, offshore installation, structures, and dynamics of offshore wind turbine foundation is also highly desirable.

You must also be a strong communicator (both written and in meetings/presentations) and work well in a team.