



NAVAL ARCHITECT

The Company

IT Power is an international renewable energy consultancy that provides advisory services in sustainable energy and climate change to clients around the world. It has regional offices in UK, India, China, Australia, South America and Africa, and works for governments, the UN, World Bank and other multinational agencies, as well as public companies and private clients.

IT Power has expertise in a wide range of renewable energy technologies: wind, wave, tidal, hydro, solar and biomass, as well as in energy efficiency. The company has a track record of practical involvement in the installation of renewable energy projects, and in research and development for new technologies.

IT Power's Offshore Group focuses on the developing marine renewable energy market: offshore wind, tidal and wave. It provides a range of services to the industry, from site surveys, resource assessments, feasibility reports, due diligence studies, and market assessments, to engineering modelling, design and project management.

We have experienced increasing demand for naval architecture services, both to model the behaviour and performance of marine energy structures, and to design innovative solutions for marine energy devices, their foundations, and for their deployment, access and maintenance operations. We have long-term relationships with three device developers that will require significant design inputs over a sustained period. We require additional specialised engineering resource to take forward these projects in addition to our more general consulting work.

For further information see our website, www.itpower.co.uk/marine

The Role

The successful candidate will work on a wide variety of projects, both providing short-term consultancy services to clients in the marine renewable industry, and having long-term involvement in the development of prototype marine energy devices.

Specific areas of focus for this vacancy are:

- Design and specification of structures and systems for marine renewable energy devices,
- Hydrostatic analysis of floating structures,
- Analysis of performance and loadings for wave and tidal energy devices,
- Design and analysis of mooring systems for devices and marine operations,
- Assessments of stability, motion response and towability for marine structures,

- Analysis of metocean data and the specification of extreme and operating load conditions.
- Model testing in flumes and tow tanks.

This work will involve:

- Analysis of marine structures using ANSYS AQWA and CFD,
- System and component design, using 3D CAD (AutoCAD Inventor) and FEA,
- Numerical modelling and data analysis using Matlab and Simulink,
- Use of design codes and standards,
- Preparation of client reports,
- Writing specifications, and tendering,
- Supervision of suppliers and manufacturers for prototype equipment supply,
- Assisting in assembly, testing and operation of prototypes.

Close working with other members of the design team and partner companies will be required to ensure proper interfaces with other systems and components. UK and European travel will be required to visit sites, clients, suppliers and other organisations. Offshore safety training will be provided as appropriate.

The position is a permanent post based in our Bristol office, although the candidate may be expected to spend periods in other locations for project work.

The Naval Architect will report to the Principal Engineer.

A competitive package will be available.

The Person

We are seeking keen, well-motivated staff, able to take responsibility for their areas of work. They should be capable of working in a team, and communicating well with colleagues, clients, suppliers and external organisations. Candidates should have a thorough grounding in naval architecture, and be qualified to degree level. We are looking ideally for candidates with several years' experience in the marine, offshore or renewable energy industry. A practical, hands-on approach to design and machine development is required.

Applications

If you are interested in this vacancy, please apply with a CV to offshore.recruitment@itpower.co.uk, or write to Offshore Recruitment, IT Power Ltd., St. Brandon's House, 29 Great George Street, Bristol, BS1 5QT.

We will not respond to agencies.

IT Power
October 2011