

## Job Title

Systems Integration Engineer

## Role Description

### Location

QED Naval Limited, based at 11 Castle Street, Edinburgh, EH2 3AH. However, this is a pretty hands on role and hence is a mobile grade to support our different projects.

### Lead the tidal energy revolution

QED is delighted to continue its expansion with its UK and EU project pipeline, it has a wonderful opportunity for a Systems Integration Engineer and also technicians, to join its rapidly growing team bringing tidal energy to the market. QED is currently working on the EU's Interreg Tiger Project, developing and deploying its Subhub tidal platform and turbines and building a test centre on the Isle of Wight. It is also developing its site pipeline in the UK and, with its subsidiary turbine business Tocardo, looking to roll out its tidal scheme in the Netherlands. This role will be dynamic and offer a fair degree of flexibility as well as a real hands-on learning opportunity. It is industry and technology leading and will allow individuals to work alongside a great and complimentary team.

### Your future day to day work scope

- Working with the Engineering Team to develop the next generation tidal technology based in Edinburgh to improve its cost and performance as well as its specification and efficient procurement.
- A mobile grade over-seeing and directing the integration of all electro-mechanical turbine and ballast control system
- Work with our supply chain/electrical, mechanical and control system contractors.
- Developing the Subhub Platform Management System (SPMS)
- Managing all the data from 3 data sources including i) Platform ii) Turbines SCADA iii) Environmental Resources and Impact. QED have set up a datacentre that stores and manages all this data to monitor the projects QED are involved in including Langstone, Yarmouth, OTP (Netherlands), Morlais (North Wales) and Islay (West Coast of Scotland).

### Other duties may include

- Presenting results of research projects to conferences.
- This new, dynamic tidal industry needs to learn fast in order to bring down costs with improvements in efficiency so the candidate will ensure that all lessons learned from our current projects are incorporated into future projects and support the technical development of the platforms and tidal turbines.
- Manage QED's involvement in ground breaking joint industry and research projects.
- Work closely with internal stakeholders and external design houses and fabricators to produce cost effective and value-added solutions.

## Required Skills

- A minimum of 4 years' experience – preferably within marine energy industry, working with hydraulic systems and integration of electrical and software control systems
- Degree qualified
- Good communicator and excellent team player
- Fluent in spoken and written English
- Strong in the use of technical engineering software such as MatLab, Labview
- Good skills in software coding such as Python, C++.

## Desirable skills

- Applicable post graduate degree.
- Design of offshore and subsea structures.
- Good computing skills
- Member of a professional body
- Demonstrable experience of working effectively independently or within a small team

## QED Naval Background

Apply now

We value diversity and therefore welcome all applications, irrespective of gender, disability, nationality, ethnic and social background, religion and beliefs, age or sexual orientation and identity.

Of course, you can find us on LinkedIn, Facebook, and Twitter.

QED Naval is a Naval Architecture consultancy business that specialises in marine energy platform developments and utilises its high-end numerical modelling capabilities in order to rapidly develop concepts into good design and represents change, innovation and sustainability. QED Naval is leading next generation, leading edge platform and tidal turbine technology, we are helping other businesses and national grids around the world become more carbon friendly to enable a sustainable life for people around the world. To achieve this, we are looking for dynamic and passionate people who truly believe in this cause to join us in creating a sustainable and secure energy future.

QED Naval Limited, is based in Edinburgh, UK, it is the group lead of several subsidiary companies which have been setup to develop specific technology and projects. QED's jewel in the crown is Tocardo BV and Tocardo (UK) tidal turbines, acquired as part of a joint venture with HydroWing. With operational bases in the Netherlands (Wieringerwerf) and soon to be on England's south coast close to QED's first project at the Yarmouth Tidal Test Centre (YTTC). This test centre has been setup to develop QED's next generation tidal platforms and turbines.

The Oosertschelder Tidal Project (OTP) is Tocardo's flagship project at 1.2MW, it operates 5 of its T2 turbines in the storm barrier and was formally the largest tidal array in the world. This icon project has many learnings to research and take forward into our project pipeline which encompasses around 80MW but is growing all the time. These technologies allow us to advance the capacity of tidal energy worldwide and be an important part of the renewable energy mix.

Another key part of this transition is to utilise “run of river” flows using some of the most iconic rivers in the world and in some of the most vulnerable and deprived areas of the world.