

## **JOB SPECIFICATION**

<b><u>Position:</u></b>	(Senior) Electrical Power Conversion Engineer
<b><u>Department:</u></b>	R&D
<b><u>Qualification:</u></b>	Electrical Engineering Degree or PhD
<b><u>Location:</u></b>	Greenore, Co. Louth

### **Company Background**

OpenHydro, a DCNS Company, is a technology business that designs, manufactures and installs tidal energy systems, enabling our customers to supply renewable energy that is silent, invisible, predictable, cost effective and in harmony with the environment. The company is headquartered in Ireland, and has tidal development projects in Ireland as well as internationally – UK, France, North America.

### **Scope of Position(s):**

We require an Electrical Design Engineer with experience ranging from 3 to 6 years plus or PhD. The successful candidate will have experience in Electrical R&D and Power Electronic Drives and Control.

### **Main Duties & Responsibilities**

Actual responsibilities will be appropriate to the experience level of the successful candidate, but may include the following:

- Work within the R&D team to develop power control, conditioning & transmission systems appropriate for the subsea environment.
- Develop general electrical systems and equipment required by the R&D team.
- Supporting the commercial projects engineering team when required, including some offshore support.
- Prepare component specifications and liaise with suppliers on procurement.
- Liaise with specialist suppliers of electrical equipment.
- Ensure that all works are performed within OpenHydro's Quality and Health and Safety System.
- Other duties as required from time to time.

### **Essential Skills / Attributes**

- For the senior position, minimum 6 years Electrical Design Engineering experience, with significant time served in power conversion, generation, and motor control applications. Alternatively a minimum of 3 years or a PhD is required.
- Excellent analytical and electrical problem solving skills.
- Proactive engineers with a positive and innovative approach to problem solving and a customer focus.
- Excellent interpersonal and communication skills, demonstrating evidence of ability to work well in team.
- Experience of dealing with external customers and contractors.
- Practical approach to work with an emphasis on simplicity of design and operation.
- Ability to cooperate closely with Mechanical & Marine Engineers as our machines are complex electro-mechanical devices operating in a harsh environment.

**Desirable Experience**

- Working knowledge of electromagnetic design.
- Experience of power transmission in a marine environment.
- Electrical engineering design experience in R&D and/or the renewable energy industry.