

Creating the technology to solve pipeline challenges.



OMS UK Office

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Job Description: Junior Electronics & Mechatronics Engineer

Overview

OMS is an exciting multi discipline company responsible for delivering bespoke leading class vision and metrology inspection systems, typically but not limited to the Oil & Gas sector.

As a Junior Electronics & Mechatronics Engineer you will provide technical support to new business developments as well as continuous improvements to existing products.

Reporting to the Senior Mechatronics Engineer, you will solve a range of electronic and mechatronic problems and be a valued member of the R&D team.

Responsibilities

- Electronic design: Circuit design, wiring and layout design, PCB design, identifying and specifying components and modules, sourcing and ordering from suppliers.
- Electronic assembly; wiring, soldering PCBs, fitting connectors
- Basic mechanical assembly
- Building small runs of complete equipment
- Testing, fault-finding, calibration
- Producing documentation (computer literacy – MS Office, etc.) and electrical schematics.
- Use of specialised PC software (PCB CAD, e.g. Proteus, programming and configuration utilities)
- Liaison with colleagues and clients

OMS US Office

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Representation in **Brazil**

Optical Metrology Services Limited is registered
in England and Wales: 05169556

Registered Office: Unit 9, M11 Business Link,
Parsonage Lane, Stansted, Essex CM24 8GF

VAT registration: 843310359





Experience/Skills	Desirable Experience/Skills
<ul style="list-style-type: none">• Practical skills are of key importance.• Understanding of basic electronic circuits and systems, including mechatronics topics.• Able to understand complex electrical schematics and technical drawings.• Electronics assembly skills: Starting from a schematic, be able to build new, functioning equipment from components.• Practical skills such as soldering and wiring, and a general knowledge of electronic components and techniques with some mechanical assembly.• Familiarity with basic electronic test equipment (multi-meter, oscilloscope Bench power supply etc.) and hand tools.• Troubleshooting and fault diagnosis	<p>Knowledge of electronic components and sub-systems:</p> <ul style="list-style-type: none">• Power electronics (e.g. DC power supplies, motor control)• Data transmission (e.g. RS232, Ethernet, optical fiber)• Sensors (in particular encoders, accelerometers, displacement sensors such as LODS, ultrasound etc.)• Embedded Microcontrollers (interface to and code development)• Analogue electronics (e.g. design of LED lighting, signal integrity)

Personal development within the role

In this role you will be working alongside highly-skilled software, design and mechatronics engineers as part of a team working at the forefront of world-leading solutions to real-world metrology challenges.

You will acquire expertise in this field, in particular in metrology devices and embedded microcontroller development.

Educational requirements

The ideal candidate will be educated to degree level (BEng / MEng / BSc / MSc) in a quantitative field such as Mechanical Engineering / Electrical Engineering / Physics.

Salary

TBD, based on skills and experience