

Job Description

Instrumentation/Development Engineer

Engineering Department

The Business

Oxford Flow was founded in 2015 as a spin-out from The University of Oxford and produces the most precise and accurate flow control valves in the world; the range of pressure flow regulators are a fraction of the weight of traditional products and virtually maintenance free. This disruptive technology is used in water and gas distribution networks, oil and gas processes, and other industrial applications.

The Role

We are seeking a motivated and talented instrumentation/systems Engineer to join a small, engineering team with a primary focus on developing our electronic/electromechanical products and accessories alongside supporting the non-mechanical aspects of our work.

Oxford Flow is a very output-oriented company making products for the energy, water, oil and gas, and industrial sectors. Reporting to a Principal Engineer, the Engineer will lead and assist with current product developments and will be expected to work to very rapid product development timescales and with a high degree of technical independence.

The successful applicant will be able to work to tight deadlines, have strong communication skills, and the ability to work independently within a small team. You will be working alongside highly motivated and capable engineers and would be expected to integrate well into this environment, contributing to a range of live projects.

The technical team have a rigorous internal technical review process, and the successful applicant should feel comfortable making technical presentations and writing reports to a very high standard, working within a technical review environment alongside the rest of the engineering team.

The Person

You will be technically competent with a STEM specialism and able to work alongside mechanical focused engineers on electro-mechanical aspects of engineering, this might include coding and software, PCB design or integration, electrical design and specification, systems development, test and experimental design. A first principles approach to problem solving is of more use than specific skillset and we are open to a variety of background and specialisms depending on the candidate.

Responsibilities

- Lead and support design and research activities across electro-mechanical and electronic design, this might include instrumentation (eg LabVIEW), electronics (e.g. Altium or similar), simple microcontroller coding for prototyping or development of automated testing systems.
- Develop test equipment and carry out testing on bespoke test equipment.
- Support manufacturing, design and develop assembly processes for both new and existing products.
- Write and review technical documents to support product introductions
- Prototype assembly, verification testing and transfer to production.

Required Skills and Experience

- A degree in a relevant STEM subject
- Experience or knowledge of some of the following would be useful:
 - Industrial product development environment.
 - Electro-mechanical design such as electronic enclosures.
 - Design and development of automation equipment.
- Candidates should have demonstrable expertise in **some** of:
 - Test equipment design and development.
 - Design of tests and experiments.
 - Electro-mechanical component specification.
 - Working to industry design standards or similar internal processes.
 - Fundamental understanding of control loops.
- Proficiency or knowledge of **some** of the following tools:
 - LabVIEW or MMC design and development. LabVIEW qualifications ideal
 - Electronic circuit design in ECAD packages such as Altium, EAGLE, Kicad or similar
 - Coding for embedded microcontrollers or microprocessors such as Arduino/Raspberry Pi
 - Rapid application development using languages such as Python and Visual Basic
 - PLC or PID controller experience
 - CAD: Modelling and drafting for manufacture in Solidworks, CATIA, Solid Edge, Blender or similar.
- Hands on approach with testing and development activities.

Other Information

- Based at Osney Mead, Oxford with regular local travel to our production facility in Pony Road, Oxford.
- Permanent, full-time role. Mon – Fri. 37.5 hours per week. Flexibility around start/finish times with core hours.
- Up to two days per week working from home.
- 25 days' holiday per year plus all statutory holidays (in England).