

## **Placement Position: 12 Month Mechanical Engineer**

### **The Role:**

We are currently looking for a student to join us for their 12-month placement. We are looking for a **Placement Mechanical Engineer** with a strong interest in refrigeration, thermal engineering, equipment design and manufacturing who can apply themselves in a fast-paced commercial setting. The role will include designing, building, controlling and running heat exchangers' testing rigs as well as working with the chemists' team to implement the coating process into manufacturing facilities. You will have an opportunity to develop cutting edge heat transfer technology which will revolutionise cooling, heating and energy generation systems world-wide.

### **The Company:**

With world-wide use of air conditioning and other energy-heavy cooling systems growing year on year the demand on global generating capacity is becoming significant. New technologies need to be developed to find ways to reduce the demand and that where the nanoFLUX® coating comes in.

Oxford nanoSystems has spent five years developing nanoFLUX®, a ground-breaking coating technology, which has demonstrated substantial enhancements in heat transfer capabilities and are now looking to bringing the process to market. The coating can also be implemented into two-phase cooling systems and significantly increase the efficiency reducing the energy demand.

New developments have also shown a need to improve energy supply and the process is being modified to improve a multitude of systems from geothermal, solar thermal and LAES to aerospace and automotive.

We are looking for talented, motivated and self-directed people to join our informal, fast paced team.

### **Candidate Profile:**

The ideal candidate will be studying for a degree in Mechanical Engineering, any previous industrial experience is not necessary. They should be comfortable working both independently and collaboratively within a team of scientists, engineers and commercial people.

### **Main Duties and Responsibilities:**

- CAD and technical drawings for manufacture using SolidWorks or similar package.
- Development of shell and tube heat exchangers testing rig.
- Running existing testing rigs and analysing results.



- Liaise closely with other project teams such as chemists with respect to new designs or design changes.
- Working closely with the company's technical/science staff in identifying and exploring opportunities to innovate product concepts and solutions.
- Leverage experiences and technical 'know-how,' skills, and techniques from external sources.
- Ability to conduct thorough research and document findings in well-organised manner quickly and efficiently.

**Skills and Experience they will gain:**

- Experience of heat exchangers' testing rigs design.
- Experience of testing rigs building up.
- Systems' control in addition to data measuring and logging.
- Experience within a manufacturing environment, where there is a requirement to understand the technical process

**Apply Now:**

Please email your CV and cover letter outlining your interest in this role to [recruitment@oxfordnanosystems.com](mailto:recruitment@oxfordnanosystems.com)

Please ensure that you have the right to work in the UK before applying to work with us. We are based in Oxfordshire (Abingdon Business Park).

This is a full-time (37.5 hours/week) permanent position based primarily in Abingdon.

Deadline for application is the 31<sup>th</sup> March 2019

**Salary:**

£17,500 per annum