

Immediate Opening: Thermal Engineer

The Role:

We are currently looking for a **Thermal Engineer** with a strong background in thermal measurements and equipment design, particularly in cooling of electronics, who can apply these skills in a fast-paced commercial setting. The role will also include developing, building and working on experimental kit to test out our thermal coatings, working with customers to showcase improvements on manufactured components and creating new cooling systems using the company's advanced coating technology. 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's where our 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 bring 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 geothermal, solar thermal and LAES systems.

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

Candidate Profile:

The ideal candidate has a postgraduate background in Thermal Engineering, but relevant industrial experience will also be considered. 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
- Thermal test rig fabrication, assembly and calibration
- Two phase cooling system manufacture and assessment



- Testing of coated components such as microgroove and micro channel heat exchangers
- Generating innovative product concepts and solutions
- Maintain safe working environment and follow protocols to ensure compliance with company standards
- Take ownership for project work and lead small projects and plan future product development
- Assist the build and progression of prototype units, with a view to develop into production assemblies

Essential Skills and Experience:

- Proven track record of problem solving for thermal systems
- Experience of thermal system design, build, analysis and testing
- Excellent written and verbal communication skills
- Confidence to ask questions and a passion to find answers to get the job done
- Proactive, results-driven focus with the ability to identify and troubleshoot potential problems to their successful resolution
- Comfortable working both independently and collaboratively as part of a team in a fast-paced environment
- Ability to work with a high level of autonomy, taking ownership of realising results
- Innovative thinker who can develop and apply out-of-the-box, novel solutions to problems.

Desirable Skills and Experience:

- Have training in brazing and refrigerant charging
- Experience of designing two phase cooling systems

Apply Now:

Please email your CV and cover letter outlining your interest in this role to 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 Abingdon, Oxfordshire.

This is a full-time (37.5 hours/week) permanent position. Compensation is highly competitive and commensurate with experience.