Software Engineer

Semiconductor devices provide the foundations on which progress in the technology sector are enabled. From Smartphones to Artificial Intelligence, 5G communications to autonomous vehicles, all are made possible through advances in semiconductor processes. Scaling these processes requires sub-nanometer measurement of increasingly complex 3D structures to enable more powerful devices. At **Infinitesima** we have pioneered a revolutionary atomic precision 3D metrology technology which has been qualified by leading companies in the semiconductor industry and we believe is essential for continued progress. To quote Lord Kelvin, *'If you can't measure it, you can't improve it!'*. Come and join our dynamic team to enable the semiconductors for tomorrow's technological developments.

Are you an experienced Software Engineer looking for an exciting opportunity to play a key role in developing software for world-class, cutting-edge metrology products?

Location: Abingdon
Reporting to: Software Manager.

The Opportunity:

The position of Software Engineer is part of Infinitesima's cross-functional engineering team. You will be part of a tight knit software group working on real-time machine control, automation, algorithm implementation, UI, data-analysis and contributing in areas such as diagnostics and predictive maintenance for our Metron3D platform.

Key Responsibilities:

- Development and integration of machine control software (using C#) running on a Windows PC platform.
- User Interface design (WPF).
- Collaborate effectively as part of an integrated software team whilst also being able to work independently.
- Work across functions (Systems Engineering, Mechatronics, Research, Electronics) to help identify and implement the optimal technology choices, architectures, and implementation.

Personal Qualities:

- Good written and spoken English.
- Collaborative and proactive.

Education

- Degree educated in Computer Science or a related engineering discipline. Other scientific/technical disciplines considered if backed by relevant software experience.

Qualifications:

Essential
- Software experience using C# (or C++).
- Using software for real-time control of machine movement (e.g. robotics).

Desirable
- User Interface development. (WPF preferred)
- Fault-tolerant software design
- Knowledge of multi-threading techniques
- Knowledge or experience of modern software development practices and processes
- C# .Net architecture
- Systems Engineering understanding or appreciation
- Architecture and design patterns
- Understanding and using Threading models
- Experience in other languages such as Python.

(We'd love to hear from you if you tick some of the above – we're not expecting candidates to have deep experience in all of them).

Benefits:

In addition to a competitive salary and an annual bonus. Infinitesima offers flexible working hours, hybrid working, 25 days annual leave, death in service and private health care benefits, personal pension contributions of 4% with salary sacrifice and a generous EMI Share scheme.