



## **Senior/Principal Electronic Design 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.

### **The Opportunity:**

We currently have an exciting opportunity for a Senior/Principal Electronic Design Engineer to join our Engineering team, working as part of the team of engineers and scientists to drive the development of existing and next generation products. Key contribution to the product success is an accurate and stable electronic architecture.

The role requires working with strong problem-solving skills to develop complex instrumentation consisting of a diverse range of technologies, including communications, networking, optics, electro-mechanics, control algorithms, motion control systems, precision mechanics, embedded software and vacuum systems. It will include analogue and mixed-signal circuit design, layout design, prototyping and prototype testing, and test jig development within a small multidisciplinary team.

Location: Abingdon

Reporting to: Electronics Manager

### **Key Responsibilities:**

- Perform development activities to innovate new electronic solutions, create new features and improve performance of existing and new products.
- Act as subject matter expert within the company.
- Lead technical developments and failure analysis
- Perform technical planning to support various integration and test activities
- Work hands-on with the equipment and apparatus to prove performance of the implemented designs
- Feed forward learning into next developments
- Work effectively and flexibly as part of a multidisciplinary team
- Support manufacturing and service in fault finding
- Documentation and presentation of technical work, plans, etc.
- Communicate effectively with diverse set of peers, customers, and vendors

## **Personal Qualities:**

- Self-management: Able to work independently, setting priorities for own work based upon the company goals and targets.
- Teamwork: Engages with other member for the company to bring the best solutions to the problem recognise the value that fellow company members bring to enhance own abilities. Supports colleagues with their tasks when critical to the company goals.
- Impact and Influence: In own field establishes themselves as the knowledge centre.
- Ownership & Initiative: React and address both short- and medium-term issues and proactively takes action to solve them.
- Results Orientation: Focus on the company goal, avoid distraction, making timely decisions to achieve the target.

## **Education / Qualifications:**

Either a BSc/BEng in Electronic Engineering or similar, or a clear growth path through engineering apprenticeship and design positions.

## **Professional Skills/ Abilities:**

### *Essential*

- Experience of practical engineering development activities.
- Experience in circuit design and ability to design PCBs or guide PCB layout specialists.
- Excellent communicator - Fluency in written and oral technical English.

### *Desirable*

- Five years industrial experience
- Experience of being a technical lead on Electronics Systems/Projects
- Experience of electrical development for test and measurement equipment.
- Experience of mixed-signal circuit design for low noise environments.
- Experience of high speed ADCs and DACs, including layout.
- Knowledge of metrology and measurement systems.
- Experience of guiding systems/products through EMC and various regulatory testing.
- Knowledge of Semi S2 standard.

## **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.*

*All qualified applicants will receive consideration for employment without regard to race, colour, religion, sex, sexual orientation, gender identity, national origin, or disability.*

*Note to recruitment agencies: Infinitesima Ltd only works with approved agencies and does not accept unsolicited agency CVs. Please do not submit candidate details in response to this advert, or to any Infinitesima Ltd employees. Infinitesima Ltd is not responsible for any fees related to unsolicited CVs.*