



Senior Mechanical 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:

A stiff and stable mechanical structure is essential to the performance of our instruments. Do you have experience in Mechanical Analysis and Design? We currently have an exciting opportunity for a Senior Mechanical Engineer to join our Engineering team.

Location: Abingdon

Reporting to: Mechanical & Optical Engineering Manager

Key Responsibilities:

- Perform development activities to innovate new mechanical solutions, create new features and improve performance of existing and new products.
- Perform detailed analysis of mechanical structures including selection of the methods to be used.
- Lead the conceptualization, design, and development of complex mechanical systems, employ advanced engineering principles to create innovative and efficient solutions.
- Work hands-on with the equipment and apparatus to evaluate performance of the implemented designs.
- Feed forward learning into future developments
- Work effectively as part of a multidisciplinary team of engineers and scientists
- 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 members of the organisation to bring the best solutions to the problem and recognises the value that fellow colleagues 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. Shares knowledge freely with coworkers. Advocates for best practice approach to design and problem solving.

- Ownership & Initiative: React and address both short- and medium-term issues and proactively takes action to solve them.
- Results Orientation: Focuses on the company goals, avoids distraction, making timely decisions to achieve the targets.

Education / Qualifications:

- Degree or above in a Mechanical Engineering or closely related engineering discipline.

Professional Skills/ Abilities:

- Experience of hands-on engineering development in prototype and production environments.
- Experience in fabrication and testing of mechanical components.
- Experience with 3D CAD design using SolidWorks, PLM/PDM, COMSOL or ANSYS.
- Solid mathematical foundation regarding mechanical structures, eigenfrequency analysis and stiffness matrices.
- Excellent communicator able to present material clearly to audiences and produce concise reports.
- Willingness to support other team members to meet team goals.

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.