



Application Development 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.

Do you have experience in Metrology, and Atomic Force Microscopy. We currently have an exciting opportunity for an Application Development Engineer to join our applications team.

This role will require a dynamic individual, who is excellent at problem solving and enjoys continuously learning new techniques and developing novel ways to implement them. This is a fantastic opportunity to work on innovative technology at the leading edge of semiconductor applications.

Location: Abingdon

Reporting to: Applications Development Manager

The Opportunity:

The Applications Development Engineer is a key player and technical contributor within the R&D team. The primary focus of this role will be to support the development of Infinitesima's key technology, the Rapid Probe Microscope (RPM). Working at Infinitesima and at customer sites, it will encompass supporting customer applications, solving problems and developing methods to demonstrate the capability of the RPM at its best. Liaising with teams across the whole company, from engineering and software to marketing, it will require close working with industry experts to understand their current and future requirements.

Experience of probe microscopy is a must, preferentially in an environment where problem solving can be demonstrated. Additionally, experience of the semiconductor manufacturing environment is highly desirable.

Key Responsibilities:

- Collaborate on application development by identifying customer requirements, analysing gaps in current technology, and creating innovative methods to enhance measurement capabilities.
- Partner with teams across the organization to promote continuous improvement initiatives.
- Troubleshoot issues effectively, leveraging collaboration with team members.

- Conduct tests, analyse and present data, and prepare reports to share findings with stakeholders.
- Assist in customer data collection and analysis, ensuring a clear understanding of their applications and effectively communicating this knowledge throughout the organization.
- Support application projects to ensure they align with customer needs.
- Work with R&D teams to test and validate product performance in real-world applications, providing constructive feedback for product enhancement.

Personal Qualities:

- Strong analytical skills and proficiency in Atomic Force Microscopy techniques.
- A Technologically adept and ambitious individual, capable of collaborating with technical experts, managers, customers, end users, and suppliers
- Adaptable and able to manage their own workload, demonstrating responsiveness and reliability in customer support.
- Enthusiastic about creative thinking and committed to staying current with technological advancements.

Education / Qualifications:

Degree/Master's Degree in physical sciences, Engineering discipline or equivalent

Professional Skills/ Abilities:

Essential

- Extensive experience in probe microscopy (AFM)
- Capability to communicate complex scientific information.
- Interest in the application of novel techniques to solve problems.
- Capability to work in multi-functional teams, communicating ideas, and solve problems.
- Fluent in written and oral technical English with excellent presentation skills, able to effectively communicate complex concepts.

Preferred

- Experience in managing characterisation and demonstration activities for metrology equipment suppliers.
- Extensive experience in the Semiconductor industry, ideally in the metrology area.
- Experience in communicating and supporting customers.
- Proven project management experience
- Sales support experience, ideally working with analytical instrumentation.
- Ability to travel globally.

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.