

Application (Development) Specialist

INTRODUCTION

Nearfield Instruments (NFI) brings together the most creative minds in science and technology to develop a revolutionary high throughput atomic force microscopy system enabling atom-scale resolution 3D metrology at industry-level throughput, based on three pillars:

- Unrivaled measurement speed;
- Parallelization capability;
- Advanced measurement modes.

At NFI, we design, develop, integrate, market and service these advanced metrology machines, which enable our customers – the world’s leading chipmakers – to increase the production yields, and thus, functionality of their microchips, which in turn leads to smaller, more powerful consumer electronics. We aim to develop leading edge metrology systems, to be installed at the customer site, within specifications, on time, with quality exceeding the customer’s expectations.

GROUP/DIVISION

The Application team consists of Product Development, AFM Application Development, Application Service, Field Application Engagement, Measurement Setup, System Training, and Technical Support. The application team aims to partner with our customers to maintain the high performance and productivity of our products through a flexible portfolio of services.

RESPONSIBILITIES

Application support of fully automated NFI systems, product improvements.

Coordination of system development, AFM metrology technology development, new applications developments, customer demos, application acceptances, maintenance of metrology quality, benchmarking and technical engagements to drive customer adoption, and strategic semiconductor industry market penetrations.

- Own NFI AFM Metrology System Applications;
- Drive for tool applications, acceptances and technical engagements at the customer sites;
- Support applications execution, troubleshooting, market penetration campaign in the demo process, Scope of work definition, test performance specification, success criteria, and delivering final reports to the customer;
- Technical function and maintenance and creating of knowledge database/system design documentations for NFI products;
- Application review of customer requested specifications;
- Coordination/planning/communication and applications execution, technical function of metrology;
- Assist in developing system, writing documentations for design and test, and enabling field business to sell broad range of product offerings;
- Work closely with diverse NFI organizations to support for operations, and development and drive for next generation tools;
- This role reports to the Application team lead and/or CTO;
- NFI responsible for fully/partially developed and customized systems, and support product enhancements, CIPs, system upgrades or analytical tools.

QUALIFICATIONS

- Required knowledge of operation/applications of semiconductor metrology tools;
- Preferably to have 1+ years of field work experience with customer engagement experiences, or 1+ years' experience in IC processing/semiconductor equipment/semiconductor industry or related field;
- Preferably to have coding capability (Matlab, Python...etc.) for data analysis, visualization, and algorithm development;
- Good to Excellent communication/presentation, organizational, analytical, and interpersonal skills. Candidate must be self-driven, independent, yet a strong team player;
- Ability to travel worldwide (10%~40%, can be discussed) is required to support customer visits, execution of demos and/or technical engagements/development in the field;
- Academic/Industry AFM Knowledge is a plus;
- Bachelor's Level Degree with at least 2~3 years of experience in semiconductor industry OR
- Master's Level Degree with at least 1~2 years of experience in semiconductor industry OR
- Doctorate (Academic).

Minimum Qualifications

- Bachelor's Level Degree with at least 1~2 years of semiconductor experience OR
- Master's Level Degree with at least 1 year of semiconductor experience OR
- Doctorate (Academic).

Equal Employment Opportunity

NFI is an Equal Opportunity Employer. Applicants will be considered for employment without regard to age, race, color, religion, sex, sexual orientation, gender identity, national origin, protected veteran status, disability, or any other characteristics protected by applicable law.

Seniority Level

- Mid-Senior level.

Industry

- Semiconductors;
- Semiconductor Equipment Supplier.

Employment Type

- Full-time.

Job Functions

- Project Management;
- Customer Engagement;
- Design of Experiments;
- Metrology Solution Provision & Engineering.

Interested? Then please contact Mrs. Sharita Nandpersad at sharita.nandpersad@nearfieldinstruments.com