

Software Architect Metrology Equipment

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.

WHAT WILL YOU BE DOING?

As a Software Architect you define the technical software road map in conjunction with the overall product and system road map. You are responsible for the definition and deployment of the architecture through the full life cycle of software for NFIs complex mechatronic systems for metrology applications. This architecture and its code base is the fundament to deliver in a reliable way for multiple systems and multiple users. You cooperate closely with architects and engineers from other disciplines and partners/suppliers in a multidisciplinary team. You see it as a challenge to take up new things and explore new tools and techniques.

In this role you will travel for about 25 percent of your time. You will report to the CTO.

What do we require of you?

The Software Architect we seek has at least 10 years of experience in high tech complex machine control, real time software, operating systems and GUI, preferably in the Semiconductor industry.

Furthermore, you need to recognize yourself in the profile as described below.

You have:

- Master degree informatics or technically oriented with 15 years' experience in an equivalent role with an emphasis on mechatronic systems (preferred);
- Experience with high tech complex machine control and real time software and operating systems
- Experience with module software interfaces and various configurable data acquisition and logging, retrieval and transmission modes
- Experience with application layers, e.g. communication through the HAL layer, system application software, calibration software, performance and diagnostics software, error handling software, safety procedures, data acquisition and logging, retrieval and transmission, simulation modes (for subsystem calibration and testing),
- Experience with fab automation system, SECS/GEM interface handling.

- GUI layer, including but not limited to recipe handling and processing by operator or through an automated interface, communication with operator, user/operator procedures, production and service / test / diagnostics modes, service & maintenance procedures, data visualization
- Experience with SEMI standards

- Experience with coaching and guiding software teams on a technical level
- Experience with defining an architecture and delivering according to that architecture
- Experience with Agile software development
- Experience with Continuous Integration and Configuration Management processes

- Direct experience in delivering systems and product to customers;
- Experience working in a multi-disciplinary engineering environment, with suppliers and co-developers;
- Demonstrated to be a “team player” with strong interpersonal skills and a quality orientation;
- The ability to quickly acquire technical knowledge from documentation and on-the-job training, and be capable of thoroughly investigating technical issues (analytically and hands-on in a lab or cleanroom environment);
- The willingness to own the integrated systems performance, and support the entire product life-cycle (development through sustaining engineering);
- Strong written and oral communication skills and a commitment to achieving results on time;
- A good command of the English language, both written and spoken.

HAS THIS VACANCY AROUSED YOUR INTEREST?

Then please feel free to apply on this vacancy! For further questions don't hesitate to contact us.

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