

Optical designer

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 an Optical Designer at NFI, you will be responsible for development of optical solutions/systems for NFI's products. This includes scouting for new design and manufacturing techniques, creating concepts and evaluating different solution directions. You will participate in projects that involve new optical components or systems. In those projects you take the responsibility for the optical design, from first principles to a fully toleranced design. You also contribute to build on the "optics design" competence within NFI, by bringing in experience and knowledge in one or more of the following areas: optics design, optical concepts, optical design software, optical manufacturing techniques, opto-mechanics, optical manufacturing supply chain.

You will collaborate with other designers (mechanical, electrical and thermal), software and firmware developers, hardware designers, and project management to develop concepts, perform engineering analysis and design, build and test optical prototypes, generate detailed requirements and design for production. You will report directly to the CTO.

WHAT DO WE REQUIRE OF YOU?

The candidate we seek ideally has sufficient experience as a Optical designer in a working environment which, in terms of complexity, is in line with that of NFI. Experience in the field of semiconductor equipment is a plus. Furthermore, you need to recognize yourself in the profile as described below.

Requirements:

- Master's or PhD in Physics with a strong focus on optics;
- Knowledge of optics and/or laser physics;
- Experience with miniaturized optics is a plus;
- Experience with hardware development and sourcing;
- Data analysis with MatLab;
- Experience with writing requirements for software engineers and/or suppliers;
- Strong written and oral communication skills and a commitment to achieving results on time;
- You have 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! Nearfield Instruments offers an exciting, fast-paced working environment where you will be able to shape the system and the company. For further questions don't hesitate to contact us.

Send your application to:

Mrs. Sharita Nandpersad

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