

# **Sr. Applications Scientist – Charged Particle Optics Systems**

## **JOB DESCRIPTION**

As a Senior Applications Scientist – Charged Particle Optics Systems, you will support simulation and testing of electron optical components in Multibeam's miniature e-beam column. The ideal candidate will have at least 5 years of experience in the simulation or design of charged particle optics systems.

This position is based at our headquarters in Santa Clara, California.

Please also check our website for additional related job openings at:

<http://www.multibeamcorp.com/careers.htm>

## **FUNCTIONS and RESPONSIBILITIES**

- Teamwork role on projects holding to a competitive schedule
- Primary responsibility includes simulation and analysis of a miniature electron beam column to optimize components for a variety of e-beam lithography applications
- Work closely with mechanical engineers on dimensions and tolerances of optical components
- Support testing and characterization of e-beam columns; experimental design and data analysis
- Prepare pertinent reports and share technical information with team

## **SKILLS and EXPERIENCE**

- Experience in simulation or design of electron or ion optics
- Experience with SIMION preferred
- Experience with Schottky electron sources (operation and basic physics) preferred
- Familiarity with electron-beam resist deposition, exposure, and development preferred
- Strong systematic problem solving skills

## **EDUCATION and TRAINING**

- B.S., M.S., or Ph.D. in physics, engineering, or related fields; advanced degree is preferred.

## **ABOUT MULTIBEAM CORPORATION**

[Multibeam Corporation](#) is a leading electron-beam technology innovator in wafer fab equipment. The company's proprietary miniature e-beam column array is currently being used to build lithography systems for the U.S government. In addition to these systems that enable low-volume, high-mix production of microchips, the company aims to apply its e-beam platform to serve other key applications such as embedding chip-specific security information to enhance cybersecurity and enhanced precision etch/deposition. Based in Santa Clara, California, Multibeam is led by Dr. David K. Lam, the founder and first CEO of Lam Research.