

Senior Electrical Engineer - Electronics Systems

JOB DESCRIPTION

As a Senior Electrical Engineer - Electronics Systems, you will be responsible for architecture, specification, and design of key electronics systems in Multibeam's electron-beam lithography system. The ideal candidate will have at least 5 years of experience in high speed and timing-critical electronics 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 architecture, specification, and design of electronics systems
- Conceptual design, system simulation, and integration of digital and analog subsystems.
- Work closely with software and electronics engineers on the overall control system
- System level design for manufacturability, design for test, design for high uptime
- Create and improve documentation
- Prepare pertinent reports and share technical information with team

SKILLS and EXPERIENCE

- Experience in semiconductor manufacturing equipment or other complex industrial systems
- Understanding of system-level DFM, DFT
- Experience with communication protocols such as RS-232, I2C, SPI, SERDES, PCIe, Ethernet
- Experience in a broad range of analog and mixed signal circuits; e.g., amplifiers, ADCs, DACs, signal conditioning, communications, power supplies a plus
- Experience in synchronization of electronics systems a plus
- Experience in PLCs a plus
- Strong systematic problem solving skills

EDUCATION and TRAINING

- B.S. in electrical engineering (EE) or related fields, an 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.