JOB DESCRIPTION

As a Senior Analog Board Electronics Engineer at Multibeam Corporation, you will be responsible for analog board designs, component selection, simulation, schematic capture and layout for an innovative electron-beam lithography system. The ideal candidate will have at least 5 years of experience in board design.

FUNCTIONS and RESPONSIBILITIES

- Design high-precision, low-noise analog boards including voltage and current sources, power supplies, low noise and high gain amplifiers, ADCs and DACs
- Run SPICE Simulations
- Conduct schematic capture and schematic reviews
- Oversee board layout
- Bring-up Boards. Perform Functional testing, Write Test Procedures.
- Support electronics systems integration and testing.
- Be a Team Player and hold to a competitive schedule. Share technical information with team
- Support electronics systems integration and testing.
- Write Documentations and prepare pertinent reports.

SKILLS and EXPERIENCE

- Experience with high-performance, high-precision, and low-noise analog board design
- Experience in a broad range of analog and mixed signal circuits; e.g., amplifiers, ADCs, DACs, signal conditioning, communications, power supplies
- Strong understanding of circuit design fundamentals
- Experience with high speed ADCs and DACs (e.g. 100 Msp) is preferred
- Experience with schematic capture, Altium and circuit simulation tools
- Experience in board level shielding and grounding, signal and power integrity.
- Experience in trans-impedance amplifier design for large area photo-detectors is a plus

EDUCATION and TRAINING

- B.S., M.S. or Ph.D. in electrical engineering (EE), physics, or related fields

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

ABOUT MULTIBEAM CORPORATION

Multibeam Corporation is a leader in multicoloumn electron-beam wafer fab equipment. The company's proprietary miniature e-beam column is currently being used to build lithography systems for fabricating integration circuits, initially for low-volume, high-mix production. This multicoloumn e-beam writing platform is versatile and capable. Among other major applications are: embedding unique chip ID in IC to thwart counterfeiting and tampering; embedding chip-specific security data in IC to augment software security and enhance cybersecurity; assisting high-precision, localized etch and deposition in advanced IC fabrication. Based in Santa Clara, California, Multibeam is led by Dr. David K. Lam, the founder and first CEO of Lam Research.