

# Analog Board Electronics Engineer

## JOB DESCRIPTION

As an Analog Board Electronics Engineer at Multibeam Corporation, you will be responsible for analog board component selection, simulation, schematic design, and layout instruction for an innovative electron-beam lithography system. The ideal candidate will have at least 3 years of experience in electrical engineering and board design.

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
- Design high-precision, low-noise analog boards including voltage and current sources, power supplies, low noise/high gain amplifiers, high-speed ADCs and DACs
- Conduct schematic capture, SPICE simulation
- Oversee board layout
- Bring-up and conduct functional tests of boards
- Support electronics systems integration and testing.
- Prepare pertinent reports and share technical information with team

## 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 Ms/s) is preferred
- Experience with schematic capture, OrCad and circuit simulation tools
- Experience in board level shielding and grounding, signal and power integrity.
- Experience in transimpedance amplifier design for large area photodetectors is a plus

## EDUCATION and TRAINING

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

## 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.