

Electrical Engineer

MBio Diagnostics of Boulder, CO (www.mbiodx.com) seeks an experienced electrical engineer to develop medical device electronics for MBio products. MBio is a technology development company focused on next generation products for human clinical diagnostics, veterinary, and environmental applications. MBio's core technology is a patent-protected planar waveguide system developed for fluorescence immunoassays, molecular diagnostics, and cell-based assays. The candidate will join a small, fast-moving, multidisciplinary group focused on instrument and assay deliverables. Working in a small company as part of the hardware development team, the Electrical Engineer will be expected to be self-motivated, creative, adapt quickly, wear many hats, and do whatever it takes to meet deadlines. This position offers enormous growth potential to persons with high initiative, leadership potential, and proven records of technical accomplishment. This position reports to MBio's Sr Software Manager.

Job Duties

The Electrical Engineer will be responsible for:

Developing custom analog and digital circuitry for the MBio instrument in accordance with FDA and ISO validation methods.

Specifying and sourcing OTS electronic hardware as part of the system.

Documenting, testing, and reviewing designs to achieve published requirements/specifications.

The Electrical Engineer will be part of the MBio engineering team and will work closely with other MBio product development and manufacturing teams.

Requirements:

- BS in Engineering or other technical discipline, or equivalent.
- At least 4 years of professional electronics development experience
- Demonstrated knowledge of circuit board layout and troubleshooting

Desired Skills

No single candidate is expected to have demonstrated skill in all functions listed below, but strong preference will be given to candidates with the following skills and experience:

- Medical device experience (or similarly regulated field)
- Understanding of regulated product development/validation under an ISO 13485 quality management system.
- Fluent experience with schematic capture and layout ECAD tool such as Altium

- Demonstrated experience in communication interfaces (I2C, UART, RS-232/RS485, SPI etc.)
- Familiarity with EMI design principles and skill conducting EMI and other regulatory testing
- Firmware / software programming experience is highly desirable
- Ability to write and approve engineering change orders
- Generate drawings and schematics for wiring assemblies, cable harnesses, and system diagrams
- Skilled in hands-on prototyping including breadboards, board bring-up, troubleshooting, and rework.
- Start-up company experience, particularly in the context of transforming R&D concepts into commercially viable products, is highly desirable.
- Ability to comfortably work with external design teams, manage outside vendors, and communicate with customers

Applicant must have authorization to work in the U.S. Resumes must be accompanied by a cover letter explaining how the applicant meets the job requirements and desired skills. Please apply via Workable; or you may email a cover letter and resume to jobs@mbiodx.com with applicant name and the job title listing in the subject line.

No phone calls, please. Note: no third-party recruiters will be enlisted for this search.

MBio Diagnostics, Inc. is an Equal Opportunity Employer committed to a culturally diverse workforce.