



Senior Electrical Engineer

About MaxCyte:

MaxCyte, the clinical-stage global cell-based therapies and life sciences company, uses its proprietary next-generation cell and gene therapies to revolutionize medical treatments and ultimately save lives. The Company's premier cell engineering enabling technology is currently being deployed by leading drug developers worldwide, including all of the top ten global biopharmaceutical companies. MaxCyte licenses have been granted to more than 120 cell therapy programs, with more than 90 licensed for clinical use, and the Company has now entered into ten clinical/commercial license partnerships with leading cell therapy and gene editing developers. MaxCyte was founded in 1998, is listed on the London Stock Exchange (AIM:MXCT, MXCL) and is headquartered in Gaithersburg, Maryland, US. For more information, visit www.maxcyte.com

Job Summary:

The Senior Electrical Engineer leads electrical engineering development activities for MaxCyte. Interfaces with other engineering disciplines and cross functional team members to define system architecture and requirements for new and existing platforms. The Senior Electrical Engineer develops electronics and electrical systems for MaxCyte's state of the art instruments and associated equipment. This job role will be responsible for electrical engineering activities from concept to commercialization.

Job Responsibilities:

- Responsible for all aspects of electrical engineering
- Design, build, and test new circuits to control instrument functions
- Develop schematics, drawings, and other design specifications
- Works with R&D to evaluate product prototypes, performance, and design features
- Ensure designs are effectively transferred to manufacturing
- Manage sustainability/obsolescence of existing circuit boards and components
- Oversee development activities of outsourced vendors
- Assist engineering technical support in troubleshooting and compliant investigations

- Support manufacturing & product development by developing automation solutions
- Establishes and maintains engineering standards and procedures
- Complies and adheres to all Company health, safety and environmental policies
- Other duties as assigned

Job Requirements:

- B.S. in Electrical Engineering or similar field and 10+ years work experience in product development. M.S. and experience in life sciences or medical device industry preferred.
- Ability to design efficient, robust, safe, and cost-effective instrumental control circuitry
 - Data acquisition, sensors, and control
 - Stepper motors, actuators, and other electromechanical devices
 - Power supply and power electronics
 - High voltage (H bridge, relays, etc.)
 - Communications (wireless, RS232, RS485, I2C, SPI, USB, LAN, etc.)
 - Thermoelectric devices
- Experience with single board computers and touch displays
- Experience writing firmware
- Solid understanding of electrical design principles and the ability to independently perform complex problem solving.
 - Hands-on skill to build and test prototypes using breadboards
 - Strong experience with laboratory instrumentation (oscilloscopes, logic analyzers, spectrum analyzers, waveform generators, etc.)
 - Strong in schematic capture & PCB layout
 - Experience with circuit modeling (SPICE)
 - Proficient in ECAD (Altium)
 - Experience with ECAD/MCAD integration, SolidWorks preferred
 - Ability to manage BOMs
 - Ability to operate and troubleshoot electromechanical and fluidics instrumentation

- Demonstrated experience in the product development process, from design conception through launch.
- Hands on experience with design control and change control.
- Familiar with international quality and safety regulations including cGMP, ISO 9001, ISO 13485, ISO 14971, and/or IEC 60601-1 and 61010
- Experience with sustaining engineering and managing part obsolescence
- Experience with C/C++/C# preferred
- Ability to work effectively in team environment as well as individually
- Demonstrated ability to be creative and willing to contribute to areas outside of personal expertise
- Strong oral and written communication skills.
- Strong organization and time management skills
- Experience developing project schedules (MS Project preferred)
- Ability to travel 10-15 %

MaxCyte, Inc. is an equal opportunity employer. To apply, please send your resume and cover letter to careers@maxcyte.com. Please reference **Senior Electrical Engineer** in the subject line.