



Job Posting

May 16th, 2023

iotaMotion is hiring a Lead Software Engineer for its new site in Pittsburgh, PA. The individual should have strong technical and communication skills, experience with electronics design and testing in a medical device R&D environment, knowledge and skill with embedded software and application software development, and a desire to work with enthusiasm in a fast-paced, dynamic startup environment as a member of a small team. The successful candidate will be able to work independently to accomplish tasks and should be motivated and comfortable translating general directions into actionable tasks and deliverables. Candidates must be able to devote 40 hours per week to company deliverables, primarily in-office.

iotaMotion is an early-stage medical device company headquartered in Iowa City, IA with satellite offices in Texas, Minnesota, and Pennsylvania. The company is developing and commercializing robotic-assisted technologies that standardize cochlear implant insertion and expand access to cochlear interventions for surgeons and patients through innovative, surgeon-centric solutions. You will have the opportunity to impact the lives of millions with severe hearing loss and the future of surgery by leading the design and development of our unique robotic-assisted systems alongside world renowned surgeons.

The Lead Software Engineer responsibilities will include developing software and software testing toward commercialization of the next generation of devices for Robotics-assisted Cochlear Implantation. The role will include the following tasks:

- Function as a lead technical resource for development and support of medical products
- Design, Implement, Document and Test software for robotic surgery applications
- Innovate to develop solutions that improve accuracy, usability, and performance of marketed software system.
- Working with contract software and hardware engineering to cost-effectively maximize throughput
- Design, Perform, and Document experiments for software and unit validation and verification
- Study the latest revision of relevant standards (i.e. IEC62304) to ensure existing products meet those standards.
- Contribute to design documentation, test protocols, results and reports and complete tracing for all software requirements.
- Provide engineering support to customer service, marketing and other departments for instrument or system performance problems.
- Assist in analysis of test and field data, identify non-conformance trends, generate concise executive summaries, and recommend design improvements.
- Provide continuous technical support to maintain and improve cost, performance and quality.
- Mentor and develop junior engineers.

Required Education and Experience:

- BS, MS, or PhD in Electrical Engineering, Computer Science, Computer Engineering, or a related field.
- Minimum of 5 years of experience in software engineering in a regulated industry, especially in embedded systems, with a strong emphasis on medical device development.
- Proven experience in a fast paced, high transaction environment providing solutions throughout the entire product lifecycle
- Experience with user interface design and implementation
- Expert knowledge of embedded systems design and development, including proficiency in system level programming and system configuration in Linux.
- Strong understanding of medical device regulations such as FDA and ISO standards.
- Familiarity with build and test automation frameworks
- Experience with risk management and hazard analysis in regulated devices
- Excellent verbal and written communication skills
- Expertise with software configuration management tools, defect tracking tools and effective peer review techniques
- Ability to work independently and in a team environment. Strong communication skills and ability to collaborate with cross-functional teams.



Preferred Experience

- Experience in real-time systems development
- Practical experience in application development in JavaScript
- Proficiency in Electronics (mixed-signal, analog and digital) design, simulation and testing
- Additional desirable areas of experience include: Labview, Matlab, Solid Works, CREO, Fusion360, mechanical testing, statistics
- Experience in design of implantable devices

We are seeking highly motivated and adaptable individuals willing to work through problems that arise while building and growing an investor-backed company. Interested and qualified applicants please submit cover letter and resume at jobs@iotamotion.com

iotaMotion is an equal opportunity employer and does not discriminate based on race, color, sex, age, disability, sexual orientation, gender, or any other characteristic protected by law.