

Software Engineer

Laxmi Therapeutic Devices – Goleta, CA



Job Description:

Laxmi started in 2016 with an idea and a mission to improve individual care with improved Continuous Glucose Monitoring Technology. Laxmi Therapeutic Devices is applying cutting edge advances in sensing, microfabrication, and electronics to create the next generation of wearable diagnostic devices. We are connecting and empowering consumers, healthcare professionals and treatment providers with personalized medicine. Our versatile biosensor platform enables rapid, inexpensive, and dependable screening of important analytes, with a focus on glucose sensing for our first product.

We are seeking a Software Engineer to join, on site, our product development team at our headquarter office in Goleta. Under the general supervision of the Director of Software Engineering, the duties for this Software Engineering position include the design, development, and deployment of software for Laxmi's internal and external next generation software products. The candidate in this role must be proficient in Python, self-driven, and comfortable with database management, and CI/CD automation that extends beyond other colleagues in data science, web development, or other fields.

This software position is critical for the future growth of the company and will require the candidate to take software from its early design or prototype stages to full commercial launch. Laxmi's goal is to provide a cutting-edge new device that will significantly improve quality of life for our customers, and you will be a key member of the software engineering development team.

Core Job Responsibilities:

- Development of software applications for desktop, web, and cloud server integrations that combine data acquisition and analysis with cloud database connectivity.
- Development of robust CI/CD strategies for current and future software projects.
- Implementation of applications that will involve standard and wireless communications.
- Implementation of applications that will involve hardware with control of pumps, flow cells and micro-steppers.
- Collaborate with electrical engineering team members and device engineers to troubleshoot device function.
- Collaborate with software engineering team members to integrate software products into a larger software ecosystem.
- Collaborate cross functionally with data scientists and chemists for translating algorithms to main line analysis code, built for ease of use, robustness, and quality output software.
- Present work in review meetings.
- Apply best coding practices, standards, and design patterns to develop comprehensive and well documented solutions that are easily maintainable and expandable for the long term.
- Adhere to agreed-upon delivery schedules.
- Support intellectual property development.
- Support medical device quality systems.
- Support clinical trials, both internal and external.
- Minimal travel (5%) may be required to our Pasadena office.

Skills, Knowledge, & Abilities:

- Experience developing robust, quality applications in Python and C/C++.
- Experience with object-oriented programming, semantics, primitive data types and arithmetic data operator.
- Experience with managing SQL Server RDBMS systems and designing efficient SQL queries of time series data is desired.
- Experience managing large amounts of time series data programmatically is desired.
- Well versed in Python's common libraries (Numpy, SciPy, Matplotlib, Plotly, Pandas,...)
- Proficiency with PyCharm, Jupyter Notebook, VSCode or equivalent.
- Proficiency with configuration management tools, version control and deployment (JIRA, Git, Bitbucket, Docker, etc.).
- Experience with CI/CD automation tools and environnements (ie: Jenkins, Bitbucket Pipelines, etc.) is a plus.
- Comfortable developing cross-platform applications to run across multiple operating systems (Windows, Linux, Android, iOS).
- Product driven coding experience with modern object-oriented languages and frameworks.
- Knowledge of wireless technology such as BLE desired, but not required.
- Ability to communicate complexity in a simple and straightforward way.
- Prior experience working in a start-up environment is a plus.
- Must be a self-driven problem solver, willing to research and present solutions and collaborate cross functionally with other departments.
- Experience in both medical device software and consumer software is ideal, but not required.
- Knowledge of ISO13485/FDA 21 CFR Part 820 Quality Systems, ISO 26304, and other FDA software best practices and requirements is highly desirable, but not required.

Qualifications:

- BS or MS in Computer Science is required for this role.
- 1-3 years' programming experience in high tech industries.

DISCLAIMER

The above information in this description has been designed to indicate the general nature and level of work performed by employees within this classification. It is not designed to contain or be interpreted as a comprehensive inventory of all duties, responsibilities, and qualifications required of employees assigned to this job.

Job Type: Full-time/On-site