

# 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 includes the design, development, and deployment of software for Laxmi's internal and external next generation software products. The candidate in this role needs to have mastery in Python that extends beyond other colleagues in data science, web development, or other fields who might also be expected to have some familiarity with it.

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:

- 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.
- Implementation of applications for data acquisition and data analysis that meets requirements of stakeholders.
- Development of software for desktops, web, and cloud server integration.
- 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.
- Work with data scientists and chemists for translating algorithms to main line analysis code, built for ease of use, robustness, and quality output software.
- Work with electrical engineer(s) and device engineers to troubleshoot device function.
- Work with software engineer(s) for software integration into larger software eco systems.
- Adhere to agreed-upon delivery schedules.
- Present work in review meetings.
- Support intellectual property development.
- Support medical device quality systems.
- Support clinical trials, both internal and external.
- Up to 10% travel may be required.

**Skills, Knowledge, & Abilities:**

- Application software implementation experience in Python is a must.
- Well versed in Python's common libraries (Numpy, SciPy, Matplotlib, Plotly, Pandas,...)
- Application software implementation experience in C/C++ is a plus.
- Any front-end, back-end web and/or database experience is a plus.
- Experience with object-oriented programming, semantics, primitive data types and arithmetic data operator.
- Experience managing large amounts of data programmatically.
- Product driven coding experience with modern object-oriented languages and frameworks.
- Proficiency with PyCharm, Jupyter Notebook, or equivalent.
- Proficiency with configuration management tools, version control and deployment (JIRA, Git, Bitbucket, Dockers, etc.).
- Comfortable with CI/CD automation environments.
- Comfortable developing cross-platform applications to run across multiple operating systems (Windows, Linux, Android, iOS).
- Knowledge of standard communication protocols (SPI, I2C, UART, USB).
- Knowledge of wireless technology such as BLE desired.
- Ability to communicate complexity in a simple and straightforward way.
- Has prior experience working in a start-up environment and needs to be self-driven.
- Experience in both medical device software and consumer software is ideal.
- 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.
- 3-5 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