JOB LISTING: Software Design Assurance Engineer

What is Bigfoot Biomedical?

Bigfoot believes people living with insulin dependent diabetes deserve relief from its daily burden. We envision a world where the emotional, mental, physical, and financial burden of diabetes has been significantly reduced. We are passionately dedicated to delivering simpler, safer, and more effective solutions for life with insulin.

We are personally committed to the mission of improving the lives of people with diabetes through the application of smart technology. We bring deep and nuanced understanding of customer needs, demonstrated technical capabilities in developing and commercializing technology, and proven business acumen in funding and growing startups into profitable publicly traded enterprises.

What we are building at Bigfoot Biomedical

Bigfoot is building diabetes management solutions integrating data, software, smart devices, and people. This is your chance to join a small but very talented team.

Software Design Assurance Engineer

The Software Design Assurance Engineer will be part of the Design Assurance team responsible for ensuring that Bigfoot’s system verification & validation strategies and testing are comprehensive to release safe, effective, and reliable system products that delight the end-users - people with type 1 diabetes, their family members, and physicians. The Design Assurance team plays a critical role in system design and requirement analysis to guide engineering teams toward designs that can be thoroughly tested with automated testing that can be applied in both system and component (hardware and software) level. The Design Assurance team is also responsible for designing test tools, performing tool validation, writing verification test cases, and performing testing.

This position is highly visible and works cross-functionally with other teams to support software development and its integration into system hardware while insuring compliance to all applicable regulatory requirements.

Essential Duties and Responsibilities:

- Manage and lead the automation test framework used for system level verification of automated insulin delivery system.
- Be responsible for developing automated tests to test the functionality, performance, reliability, scalability and security of the automated insulin delivery system.
- Create an automated test framework, automated test scripts, test plans and test cases based upon the product and component level requirements.
- Develop test cases with expected results/outcomes and create framework for automated report generation.
- Develop both automated and manual test plans during system integration and during final verification phase.
- Strong collaboration skills and ability to work with other development and Design Assurance team member.
- Specify and execute validation testing per QMS for test tools that will be used for product verification.
- Ensure that product development and verification tests developed are in compliance with the FDA, ISO Quality System Regulations, and Bigfoot SOPs.

Must haves we’re looking for:

- Minimum of five (5) years of experience in software design assurance, design assurance, design engineering or equivalent.
- Experience with Software Quality Engineering, SW/FW Engineering or equivalent with experience in medical device design, development and testing is preferred.
- Experience in developing test framework interfaces and components using the following tools is a plus: Selenium WebDriver, Maven, JUnit, TestNG, Appium mobile automation framework, ExtentReports.
- Experience with system thinking for electromechanical and embedded systems consisting of custom hardware, software and software of unknown providence (SOUP).
- Experience with testing and driving mobile App UI using automated test tools.
- Experience working in Agile product development environment.
- Experience with development of test methods, design verification, and validation of medical device products with emphasis around software development/testing.
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- Knowledgeable about QA methodologies related to software regression testing, ad hoc testing, functional testing and verification of calculations, user interface testing, and integration testing.
- Strong verbal (including presentation) and written communication skills, especially technical report writing.

We’d prefer if you also have:

- Start-up or small company experience.
- Current or former role acting as SQA Engineer.
- Hands-on experience with both white box and black box testing.
- Skilled in Java, python, and C++ coding.
- Experience with Source Code Management maintenance and branching.
- Experience with at least one test framework development as project lead.
- Familiar with medical devices, regulatory requirements and quality management systems.

- Specific vision abilities include close and distance vision, depth perception, peripheral vision and ability to adjust focus.

Please note that this position may have exposure to bloodborne pathogens. Bigfoot Biomedical will comply with Cal-OSHA requirements and will provide vaccination, communication, and training of its Exposure Control Plan.

What will you do at Bigfoot Biomedical?

What you do here at Bigfoot will largely be defined by your existing skills and desire to grow to help us achieve the above. We have a Google-inspired working environment and culture to help us stay focused on our goals.

We have competitive benefits. We have a great team culture. We understand that we all need to succeed as a team. We have fun while we’re building a solution we can be proud of.

If you’re ready to make a dent in the universe, join the mission, and feel like what you do every day isn’t just a job, come talk to us!

Bigfoot Biomedical, Inc, provides equal employment opportunities (EEO) to all employees and applicants for employment without regard to age, color, national origin, citizenship status, physical or mental disability, race, religion, creed, gender, sex, sexual orientation, gender identity and/or expression, genetic information, marital status, status with regard to public assistance, veteran status, or any other characteristic protected by federal, state or local law.

Send an email introducing yourself and your resume to: careers@bigfootbiomedical.com.