Illumina Careers

Software Test Engineer 1

◎ US - California - San Diego

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Position Summary:

The Factory of the Future (FoF) team is a part of Global Quality & Operations and has responsibility for the design, development and support of custom and configured product manufacturing software systems. As a Software Test Engineer, you will drive the verification testing for software based systems that support the manufacture of Illumina's consumables products. You will work with R&D, Quality, Manufacturing, Contract Manufacturers and other engineering groups to develop software test approaches for new product manufacturing equipment and support testing for existing products.

This person will join a dynamic, fast paced organization supporting new product development teams, as well as sustaining operations. You will be adept at balancing multiple project priorities and will be able to demonstrate leadership and agility through technical and organizational change.

All About You

Responsibilities:

- Work cross functionally with R&D, Manufacturing and Quality to develop and execute software verification test approaches for manufacturing equipment, automation and systems.
- Assist software developers and domain experts in designing, performing, and improving verification tests

Do you want to make a difference? Illumina's mission is to improve human health by unlocking the power of the genome. If that inspires you, let's talk. We've built a culture fueled by innovation, collaboration and openness, and established ourselves as the global leader in DNA sequencing and array-based technologies. Our people and our technology change lives by driving advancements in life sciences, oncology, reproductive health, agriculture and other emerging markets. Life at Illumina is about working with teammates who are deeply passionate about what we do, because we know that our work has the power to improve lives.

We're an established company with a track record of phenomenal growth. Just check out our investor events and presentations to learn about our financial accomplishments. Our growth

- Assist in the definition, capture and documentation of user needs and system requirements.
- Demonstrated success in collaborating in a fast-paced team environment and delivering high-quality software products using established agile development methodologies (such as Scrum, Kanban, etc.) against formal schedules.
- Utilize defect tracking and version control tools as an integral part of the software life cycle development process.
- Utilize SQA skills to write and execute manual tests in accordance with the company's established SDLC methodology.
- Maintain awareness of industry trends and evaluate applicability of new software testing technologies to system development efforts
- Work with software & engineering teams to ensure alignment of architecture and user requirements
- Provide technical leadership to project teams when required
- Occasionally provide technical assistance for escalated production issues
- Work collaboratively with external providers of automation and manufacturing equipment to ensure fit-for-purpose software that meets Factory of the Future and Illumina requirements.

Requirements:

- Experience with Microsoft Office, Visual Studio, Agile (Scrum)
- Possess proven troubleshooting skills
- Be curious, detail oriented, and analytical, with a proven ability to learn quickly
- Be customer-focused, team-oriented, and self motivated, taking ownership of assigned tasks
- Have proven ability to self-manage, as well as manage interdisciplinary relationships
- Experience and understanding of basic automated manufacturing systems, tools and components (electrical and pneumatic control, sensors, metrology systems, PLCs) preferred.
- Experience with high volume manufacturing in a high-tech consumables industry and/or semiconductor manufacturing desired.
- Experience developing using unit testing and test-driven development.
- Experience with GAMP 5 and 21 CFR part 11 and developing in an FDA regulated environment highly preferred.
- Proficient with source control management repositories (such as GIT) and CI/CD practices
- Good interdepartmental communication skills and documentation skills are required.
- High level of attention to detail is absolutely required.
- Have proven verbal and written communication skills
- Practical technical knowledge of automation software platforms and LIMS
- Experience with iterative development life cycle methodologies and application of those principles, especially Agile development practices
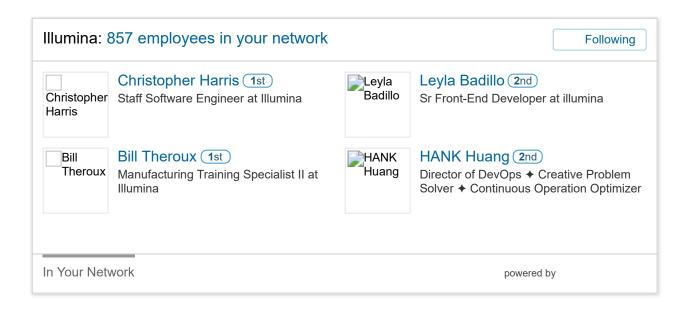
financial accomplishments. Our growth isn't just in financials, we've been busy hiring the best and the brightest. Perhaps that's why MIT has ranked Illumina near the top of its World's Smartest Companies each of the last three years. If you thrive in a brilliant, fast-paced, and mission-driven environment, Illumina is the place for you. Join the journey of a lifetime. Join Illumina.

Education:

- Bachelor's degree in computer science, bioinformatics, bioengineering, or other engineering related area
- 1-2 years' operating, testing, and supporting SW for instrumentation
- 1-2 years' experience working in Software Quality Assurance or other areas of the SDLC to test Windows-based GUI systems

Illumina believes that everyone has the ability to make an impact, and we are proud to be an equal opportunity employer committed to providing employment opportunity regardless of sex, race, creed, color, gender, religion, marital status, domestic partner status, age, national origin or ancestry, physical or mental disability, medical condition, sexual orientation, pregnancy, military or veteran status, citizenship status, and genetic information. If you have a disability or special need that requires accommodation, please contact us at applications@illumina.com. To learn more, visit: https://www.dol.gov/ofccp/regs/compliance/posters/pdf/eeopost.pdf

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