Job Description – System Integration Test Engineer

Reports To: Technical Director

Department: Engineering and Development

Type: Full-Time – in office, not hybrid

Company Overview

Global Inkjet Systems (GIS), a division of Nano Dimension**,** is an award-winning global leader in the development and supply of application software, electronics, and ink system components for the industrial inkjet printing market.

We design tailored next-generation software, advanced printing system components, and provide expert services to customers worldwide, supporting applications such as direct-to-shape printing, inkjet hardware components, and 3D printing.

At GIS, we foster a friendly culture for people to work collaboratively towards success, communicate openly to challenge the norm and nurture people to create future thought leaders.

About The Role

As a System Integration Test Engineer, you'll be working in a well-supported hybrid environment, engaging closely with a multi-disciplinary team of engineers across mechanical, hardware, software, and logic domains. This is a highly rewarding and collaborative role where you'll contribute directly to the delivery of quality inkjet technology products, helping ensure seamless integration and reliable functionality across complex systems.

In this role, you'll take ownership of verifying and validating the performance of our Windows-based ASP.Net Server product, which is responsible for high-speed image processing and integration with printhead drive electronics. You will perform hands-on system-level testing and support the development and maintenance of integration test plans, environments, and regression processes. While some exposure to automation is helpful, your primary responsibilities will involve hands-on testing, issue investigation, and cross-functional collaboration to ensure product readiness and quality.

Key Responsibilities

- Participate in daily Agile Scrum meetings to align with the development team on priorities, progress, and upcoming testing tasks
- Perform manual system integration and functional testing on both new features and existing functionality, focusing on the interaction between software and hardware components
- Develop and maintain basic test scripts in Python to automate repetitive tests and support continuous regression testing efforts
- Investigate and document defects with clear reproduction steps, logs, and system context; collaborate with developers and engineers to diagnose and resolve issues
- Validate end-to-end system behaviour, including REST API interactions, server-side processing, and hardware responses

- Execute regression tests to confirm the stability of new builds and verify that resolved issues do not reoccur
- Assist in the setup and maintenance of test environments, including hardware, firmware, software, and network configurations
- Contribute to the ongoing improvement of test plans, test cases, and system integration strategies
- Identify manual test cases that are good candidates for automation and collaborate with automation engineers to expand automated test coverage

Requirements

Essential skills and experience:

- Strong quality assurance, software validation, and academic background
- Strong analytical and troubleshooting skills for identifying and isolating system-level issues
- Confidence in writing basic test scripts or tools (Python preferred) to support system integration and testing workflows
- A proactive mindset and the ability to work independently while collaborating effectively with multidisciplinary teams
- A desire to learn more about inkjet printing systems, embedded technologies, and automation techniques
- Good knowledge of software testing methodology and technology product life cycle
- Hands-on experience with testing network-based applications (e.g. REST APIs, client-server models)

To be considered for the role, you must possess:

- Strong academic background in science, technology, computer science, or appropriate Engineering Degree
- High attention to product detail, user interaction with a technical system, and quality of own work
- At least 2 years of experience in a technology environment focused on system-level testing or hardware/software integration

Desirable skills and experience:

- Achieved an ISTQB Software Test Foundation Level or similar
- Evidence of self-applied technological learning
- Basic IT understanding and competence
- Worked in an Agile environment
- Experience testing HTTP network applications. (e.g. cloud, local network, IoT)
- Knowledge of industrial printing systems, or hardware to software integration testing
- Familiarity handling and working with assembled Printed Circuit Boards (PCBs)
- Experience with Linux, Embedded Linux, and Windows Operating systems
- Basic Python or scripting knowledge (to support test setup or automation collaboration)
- Experience with CI tools like Jenkins and version control systems like Git or SVN

Benefits

- Competitive salary
- Pension contributions
- Private health insurance & life insurance
- 25 days annual leave (+ option to buy more)
- Tastecard membership
- Cycle to work scheme
- Company-funded staff kitchen (snacks, drinks, fruit, chocolate)
- Social events & charity committee support
- A collaborative, innovative, and supportive working environment

If you're passionate about technology, thrive in a multi-disciplinary environment, and want to shape the future of industrial printing systems, we'd love to hear from you.