Company: Xallent INC.
Business: Semiconductor
Job Category: Test Development Intern
Region: Americas
State/Province: NY
Town/City: Ithaca
Job Type: Summer Internship

Overview
Xallent INC. designs, develops, manufactures, and markets advanced hardware and software tools for micro and nanoscale probing measurements. Xallent’s patented probe cards, probe heads, wafer probers, and software are used for the most demanding applications in the imaging, electrical, and mechanical testing of semiconductor devices and thin film materials. As the electronics industry pushes the design frontier to 5 nm, 3 nm, and 1 nm advanced nodes, Xallent technologies enable industry-leading research labs and production facilities to dramatically improve their measurement and analytics capabilities with greater accuracy, speed, and at lower cost. It’s strength in this area is cutting-edge and has enabled it to develop a range of highly innovative probing solutions while claiming a broad swath of intellectual property through its growing patent portfolio.

Job Purpose
The Test Development Intern is responsible for developing application-specific programs to test and validate new products.

Duties and Responsibilities

- Write software programs to control micro-electro-mechanical-system devices
- Program a data acquisition system to continuously acquire, process, and display measured data
- Design and implement control and feedback routines using PID controllers
- Leverage formal education to analyze data and provide recommendations to engineering and management teams
- Other duties as assigned

Qualifications
The ideal candidate must have a proven track record of completing projects with a high level of innovation, communication, quality, and efficiency. The selected candidate, when presented with a project, will be able to gather requirements, coordinate work with others, design, and document in our repository system, program and test the design, and take responsibility for its overall success.
The successful candidate will possess the following qualifications:

- Pursuing a degree in engineering or related field
- Strong background in programming languages such as Python, LabVIEW, C, or C++
- Experience with robotics and computer vision is a plus
- Good communication skills and able to work with multiple functional groups

**Equal Employment Opportunity**

Xallent is an equal opportunity employer. Qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, protected veteran status, disability or any other protected categories under all applicable laws.

To apply, please send your resume to careers@xallent.com