Company: Xallent Inc.
Business: Semiconductor
Job Category: Applications Engineering Intern
Region: Americas
State/Province: NY
Town/City: Albany
Job Type: Internship (Part-time or Full-time)

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

Xallent is developing a portfolio of micro and nanoscale probes for testing energy efficient AI chips and energy storage systems. The Applications Engineering Intern is responsible for developing applications-specific software programs to characterize the performance of the probes.

Duties and Responsibilities

- Write software programs to extract the electrical and mechanical properties of the probes
- Design and implement control and feedback routines using PID controllers to enable the probes to make contact to the device-under-test
- Program a data acquisition system to continuously acquire, process, and display measured data
- Leverage formal education to analyze data and provide recommendations to engineering and management teams
- Other duties as assigned

Qualifications

The ideal candidate is self-driven, motivated, and able to work in a fast-paced environment. The successful candidate will possess the following qualifications:

- Pursuing a degree in engineering or related field
- Hands on experience in using function generators, oscilloscopes, and other test equipment
- Strong background in programming languages such as Python, LabVIEW, C, or C++
- 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*