



PDF is seeking an experienced Senior Software Developer to join the Engineering team, who is responsible for developing innovative Electron Beam Microscope metrology tool for Semiconductor testing. The Senior Software Developer is an organized and highly motivated team player with strong initiative and communication skills, ability to mentor other team members and possesses the drive to deliver quality results on time in a complex, intensive and highly productive environment.

The position is located in San Jose, California and relocation is not offered.

Responsibilities:

- Scope and design software architecture for innovative Electron Beam Microscope based metrology tool.
- Research and prototype algorithms to perform different aspects of the tool control.
- Develop calibration and diagnostics methodologies.
- Support control software activities on tools. Software design, implementation, Installation, troubleshooting and testing.
- Mentor other members of the team on implementing components on the designed architecture.
- Manage internal and external engineering resources as needed to progress the project.
- Document design, debugging and testing procedures.
- Develop machine control software for semiconductor capital equipment including test instrumentation, performing data acquisition and analysis.
- All machine control software is written primarily in LabVIEW.
- Write low level control for various types of components like DC/RF power supplies, motion control, mass flow controllers, etc including software simulation ability to improve development/testing without requiring access to an actual process tool.
- Write higher level software for running recipes, and develop appropriate GUIs.
- Work with technical requirement specifications to develop and document code.
- Other projects and duties as assigned

Requirements & Qualifications

- MS/PhD in Computer/Electrical/Mechanical Engineering or related technical discipline.
- Proficiency in LABVIEW development for GUI and time critical applications.
- Strong analytical abilities, especially in numeric algorithms and physics domain.
- Strong hands on skills on hardware control SW and troubleshooting.
- Must have at least 4+ years of software development experience in machine control using National Instruments LabVIEW. Preferably at the Semiconductor industry.
- Proficient in Object Oriented development concept.
- Experience developing with text based software like C++, C#.
- Excellent written and verbal communication skills.
- Self-motivated, results oriented person with a delivery focus.