

Position Title: EE Hardware Systems Analog Engineer JC: 111900040

Position Location: Milpitas, CA USA

Relocation: Not Available

PDF Solutions, Inc. (NASDAQ: PDFS) is a leading provider of yield improvement technologies, services, systems and analytics for the IC manufacturing process life cycle. Headquartered in San Jose, Calif., PDF Solutions operates worldwide with additional offices in China, Europe, Japan, Korea and Taiwan.

Position Summary: PDF is seeking a senior systems engineer to join the R&D team to work closely with PDF internal engineering team and with our customers towards various complex electrical/mechanical/optical problems related to eProbe inspection systems that are used at 300mm semiconductor wafer fabs to implement PDF's Design-for-Inspection (DFITM) methodology used in yield ramp and manufacturing control. The senior systems engineer will work in a dynamic, multi-disciplinary, intensive and highly productive small team environment. Headquartered in Santa Clara, Calif., PDF Solutions operates worldwide with additional offices in China, Europe, Japan, Korea and Taiwan. For the company's latest news and information, visit <http://www.pdf.com/>.

Job Duties

- The engineer will play a key role in e-beam inspection system characterization, data analyzing, and troubleshooting
- Imaging noise characterization and troubleshooting at sub-system and system levels in a complex semiconductor electron beam inspection tool. Noise sources include, but not limited to, electronics, mechanics, electromagnetic interference, and etc.
- Bench tests in a lab setting for interdisciplinary fields, such as low level noise, high voltage electronics, magnetics, EMI/EMC, and etc.
- Participate design review for circuit schematic/layout and identify potential issues
- Write prototype machine control program (e.g., LabVIEW) to help execute systematic measurements and subsequently analyze and visualize results.
- Occasionally manage turn-key PCB assembly orders with suppliers.
- Creation of procedures/test reports, presentation, and effective communication with the team

Qualifications and Skills

- Degree in Electrical Engineering, Physics, or an equivalent engineering field
- BS with 5 years' industrial experience, or MS with 3 years' experience, or Ph.D. **Fresh Ph.D. Graduate are welcome to apply.**

Senior Systems Engineer

- Strong experience in data analytics and systems engineering with programming/scripting, as necessary.
- LabVIEW or Python programming experience is a plus.
- Strong hands-on experimental design experience and measurement skills.
- Experience with OrCAD/Allegro.
- Industrial and/or academia experience in e-beam inspection, e-beam lithography, SEM/TEM, particle accelerator or charged particle optics is a plus.
- Understanding of EMI/EMC, familiar with relevant testing facilities and equipment, and finding solutions for mitigation to improve tool performance.
- Proven ability to work well with cross-functional teams.
- Excellent Communications Skills, both written and verbal.