

Position Title: Senior Mechanical Engineer-DFI Products

Position Location: Milpitas, California

Easy Apply: <http://bit.ly/Mechanicaleng>

PDF Solutions (NASDAQ: PDFS) offers an end-to-end analytics platform that empowers engineers and data scientists across the semiconductor ecosystem to rapidly improve the yield, quality, and profitability of their products. By combining industry-leading data analytics and professional services with exclusive, differentiated product data generated during the manufacturing process, PDF Solutions is delivering on the promise of Industry 4.0 today by transforming how the ecosystem collects, analyzes, and shares data. Key Fortune 500 organizations around the world rely on PDF Solutions to remove the data barriers that encumber and constrain new product introductions and to deliver the machine learning insights that drive efficient and profitable high-volume manufacturing.

Headquartered in Santa Clara, California, PDF Solutions also operates worldwide in Canada, China, France, Germany, Italy, Japan, Korea, and Taiwan.

Position Summary: PDF is seeking an experienced Senior Mechanical Engineer to work on PDF's ebeam inspection tool for Design-For-Inspection used for enhancing yield in state-of-art 300mm semiconductor fabs. We are searching for a Senior Mechanical Engineer who wants to hone their skills in an exciting career, where they can work on cutting edge electron beam technology and work side by side with industry experts who have decades of experience. The ideal candidate will be organized and a highly motivated team player with strong initiative and communication skills and possesses the drive to deliver quality results on time in a dynamic, multi-discipline, intensive and highly productive small team environment.

Key Responsibilities

- Design mechanical modules from concept to production, including robotics, actuators, mechanisms, machined parts, sheet metal, etc
- Design and test high voltage and high vacuum components
- Conduct system and module analysis, such as thermal, vibration, tolerance and contamination
- Interface with other mechanical, system, and electrical engineers to ensure proper mechanical module integration
- Hands-on troubleshooting of system thermal and vibration issues
- Design and analysis of system structural components
- Create documentation including drawings, BOMs and procedures
- Manage suppliers to ensure design requirements and project schedules are met
- Lead complex engineering projects
- Drive continuous business process improvement and automation
- Other projects and duties as assigned

Job Requirements

- Master's degree or higher in Mechanical Engineering
- Solid analytical and engineering skills
- 5+ years' experience in mechanical engineering, preferable in semiconductor
- Proficiency with solid modeling, preferably SolidWorks
- Experience with FEA, and thermal, vibration, and acoustic analysis and measurement
- Experience with supplier management
- Experience with test and measurement SW such as Labview and Matlab
- Ability to work effectively and partner with various team members.
- Ability to manage multiple priorities, work under time constraints and deadlines
- Excellent interpersonal, communication, collaboration and influencing skills
- Ability to respond to, prioritize effectively and meet deadlines while maintaining the highest of standards for completeness and accuracy.
- Ability to effectively operate in a fast-paced team environment with ability to adapt to change.

Following Requirements are Highly Preferred

- Vacuum tool. Vacuum systems and pumps, electron beam columns, wafer handling robots, and/or motion control
- Experience with electrostatic chucks, piezo motors, linear motors and servo control a plus