

PDF is seeking an experienced Electrical Engineer to join the PDF R&D team, who is responsible for delivery of E-beam columns in our e-Probe systems. The Engineer is an organized and 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.

The position is located in San Jose, California area

- Job Description
 - Work closely with PDF internal engineering team towards delivery of ebeam columns for next generations of eProbe systems in use at 300mm semiconductor wafer fabs to implement PDF's Design-for-Inspection (DFITM) methodology used in yield ramp and manufacturing control.
 - Work hands-on with on PDF's Ebeam tool for DFITM solution, the eProbe™-250, for data collection and column characterization.
 - Bring up of next generation Ebeam column. Optimize source, column operating conditions, derive beam on YAG scintillator, drive deflectors, gather image, unit test individual components of the column.
 - Debug performance, noise, and charging issues on these columns
- Required Skills and Experience
 - Masters/PhD in Electrical Eng., physics, material science, or similar engineering field
 - Solid understanding of Ebeam columns, guns, detectors, and associated analog electronics.
 - Hands on experience in bringing up new Ebeam columns
 - Hands on experience with bringing up Ebeam sources for stable operation
 - Hands on experience with analog electronics and noise troubleshooting on Ebeam systems
 - Good analytical and engineering skills
 - Good written and verbal communication skills
- Other desirable Skills and Experience
 - Experience or familiarity with 300mm semiconductor IC manufacturing
 - Experience or familiarity with semiconductor capital equipment, especially Ebeam and ultra-high vacuum equipment.
 - Experience specific to Ebeam 'inspection' columns and, even more so, in 'voltage contrast inspection' column is very desirable.
 - Experience with Ebeam optics simulations
 - Willingness to travel to (up to 20%) to other client sites in Asia (Korea and China) to troubleshoot/support column issues at field sites

Please send your resumes to: loran.barnett@pdf.com with "Optics Systems engineer" in the subject line.