Mechanical Engineer – Vacuum Systems

JOB DESCRIPTION
As a Mechanical Engineer at Multibeam Corporation, you will be responsible for design and test of components and assemblies, including vacuum chambers, for an innovative electron-beam lithography system. This role requires experience in mechanical design, simulation, drafting, and testing. Experience in ultra-high vacuum system design is preferable. The ideal candidate will have at least 3 years of experience in engineering in the semiconductor capital equipment industry.

This position is based at our headquarters in Santa Clara, California.

Please also check our website for additional related job openings at: http://www.multibeamcorp.com/careers.htm

FUNCTIONS and RESPONSIBILITIES
- Teamwork role on projects holding to a competitive schedule
- Process module design, development, and integration of sub-systems, including vacuum systems, plasma cleaning systems, and magnetic shielding; DFM, design for serviceability
- Refine engineering specifications and conduct design reviews
- Prepare pertinent reports and share technical information with team
- Work hands-on in the cleanroom and lab

SKILLS and EXPERIENCE
- Experience in capital equipment design
- Experience with vacuum systems and chambers, including Ultra-High Vacuum (preferred)
- Strong analytical problem solving and root cause analysis skills
- Ability to work hands-on in cleanroom and lab
- Proficiency in Pro-E/PTC Creo, plus modeling of cable routing (preferred)

EDUCATION and TRAINING
- B.S. in Mechanical Engineering or related field; M.S. (preferred)
- Mechanical engineering tools including simulation software (preferred)

ABOUT MULTIBEAM CORPORATION
Multibeam Corporation is a leading electron-beam technology innovator in wafer fab equipment. The company’s proprietary miniature e-beam column array is currently being used to build lithography systems for the U.S government. In addition to these systems that enable low-volume, high-mix production of microchips, the company aims to apply its e-beam platform to serve other key applications such as embedding chip-specific security information to enhance cybersecurity and enhanced precision etch/deposition. Based in Santa Clara, California, Multibeam is led by Dr. David K. Lam, the founder and first CEO of Lam Research.