Mechanical Engineer
Levels 2-4

At Lam Research, we create equipment that allows chipmakers to build device features more than 1,000 times smaller than a grain of sand. These features have a substantial impact, and virtually every leading-edge chip inside the electronic products you use every day has been made using our equipment.

Creating today’s chips requires the utmost precision on a scale so small, it’s hard to comprehend. And that’s where we shine, thanks to our team of brilliant individuals. We believe how we do things is just as important as what we do—but the most important piece of all is who helps us do it. No matter your area of expertise—from product engineering to manufacturing and supply chain management, to customer support—you’ll play a key role in proving what’s never been done before.

Are you up for the challenge? Let’s get to work.

Job Responsibilities

- Participates in the conceptualization, modeling, analysis, development, documentation, and test/validation of hardware associated with new semiconductor equipment.
- Designs parts using metals, ceramics, quartz, plastics, and advanced coatings/plating’s. Work with potential suppliers to ensure parts can be manufactured in accordance with performance and cost objectives.
- Ensures documentation is consistent with SEMI, Lam Standards and other standards as applicable (ANSI, DIN etc.) as well as best known methods for GD&T; accordingly, demonstrates knowledge and ability to properly utilize them.
- Performs analytical work in order to characterize and properly specify new and existing designs, including heat transfer, stress, vibrations, fluid/gas dynamics and manufacturability.
- Develops and execute test plans that generate characterization data sufficient to understand and validate the performance of the design.
- Develops and presents reports/presentations of excellent quality that communicate design intent, analysis, and validation at design reviews.
- Close interactions with suppliers and other Lam internal departments to ensure reception of high quality, well tested and cost optimized solutions for the defined requirements.
- May be responsible for the design, development and implementation of custom mechanical tooling, fixturing and associated processes to enable the handling, assembly and/or disassembly of parts, components, sub-assemblies and final assemblies throughout the product life cycle. Establishes standards across all operational processes.
- Prepares all required deliverables requested by product development plan (e.g. FMEA, technical specifications, risk analysis, test specifications, design review presentations)
- Acts as a resource for colleagues with less experience; may lead small projects with manageable risks and resource requirements
- Professionally represents the company to the customer

Minimum Qualifications

- Minimum of 8 years of related experience with a Bachelor’s degree; or a Master’s degree with 5 years’ experience; or a PhD with 3 years’ experience; or equivalent experience
- Extremely knowledgeable using 3D CAD tools such as ProE, NX, etc. is required
- Ability to work in a team environment with aggressive deadlines and multiple priorities
- Strong skills and experiences in problem solving, time and priority management, communication, and project management
- Ability to learn new skills quickly with minimal guidance
- Good communication skills, ability to work well with other teams to meet production goals
- Strong design background coupled with solid engineering skills
Preferred Qualifications

- Ph.D. with 1+ years of relevant work; or
- M.S. with 3+ years of relevant work experience; or
- B.S. with 5+ years of relevant work experience

More About Us ….

Our work is everywhere you look – even if you can’t actually see it. Lam Research goes deeper than software or chips to the heart of the process that enables chip creation. So if you want to help power the components that empower everything, join us.

All qualified applicants will receive consideration for employment without regard to race, sex, color, religion, sexual orientation, gender identity, national origin, protected veteran status, or on the basis of disability.