

Lab Manager

As the Lab Manager you will ensure the peak performance of our laboratory operations including our equipment, tools, spares, and facility assets. A well run and organized laboratory will enable our technical staff to focus on product and process development, research, sales demonstrations, and customer support, increasing overall efficiency. You will also contribute experienced know-how in many technical areas and provide mentoring to our early career engineers and scientists.

Responsibilities:

Varioscale builds, develops, and services our semiconductor capital equipment (Systems) directly worldwide from our single location in San Marcos, California. These Systems are comprised of mechanical, vacuum, and optical assemblies to perform complex operations such as thickness measurement, precision machining, and laser driven chemical etching. Our customers are major semiconductor manufacturers and foundries as well as US Government research and cybersecurity laboratories. These commercial operations are primarily performed in our Tech Laboratory which has one or more of our latest products.

In addition to the Tech Lab, Varioscale has an integrated circuit teardown laboratory that performs research and development in hardware cybersecurity. The Teardown Lab includes state-of-the-art microscopes (SEM, AFM, Interferometer) as well as specialized tools developed by Varioscale including focused ion beam and ultra-planar grind and polish. The Teardown Lab requires 24/7 operation and considerations for information security.

Laboratory operations are essential to the performance of our technical work at Varioscale. As our laboratory lead you will have the following direct responsibilities:

- You will manage all the Varioscale in-house product equipment scheduling maintenance, upgrades, and utilization to ensure reliability, availability, and performance.
- You will manage all the non-Varioscale equipment scheduling tool training, preventative maintenance, and utilization to ensure reliability, availability, and performance.
- You will manage information security and access to equipment, establishing criteria for proper operation, safety, best-known-method (BKM) and cross-training.
- You will manage laboratory supplies including specialty gases, chemicals, and other consumables. You will maintain proper documentation and safety procedures for use of specialty materials.
- You will manage laboratory facilities including vacuum pumps, compressors, chillers, exhaust fans, HVAC and UPS. You will monitor energy usage and other cost of operations.
- You will determine and maintain all tools in the laboratories and those used in field service to establish uniformity and application. You will promote use of the right tool for the job.
- You will work with the VP of Engineering and Financial Director to invest in laboratory capital expenditures, training opportunities and tools with justifiable return on investment.

Requirements:

- 10+ years of experience in a technical industry with hands-on experience in a laboratory working on semiconductor devices.
- Great communication skills both interpersonal and technical documentation.
- Knowledge of semiconductor capital equipment a plus, especially focused ion beam, scanning electron microscope systems, and other high vacuum systems.
- Previous experience in hardware cybersecurity a plus.
- Previous experience with US Government laboratory customers a plus.
- Previous experience with major semiconductor manufacturers a plus.

Please send us your resume and a letter describing how you can contribute to Varioscale via email to jobs@varioscale.com. Reference job code LM01 in the subject line.

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