

MSL (Material Science Lab) Senior Engineer

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Company: Seagate

Location: Thailand

Category: other-general

Material Science Laboratory provides service support analytical technique and scientific analysis for material, process, products on cleanliness, contamination, and failure analysis under Operation Quality and Analytic (OQ&A)

About the role - you will:

Performing cleanliness testing process for organic extraction on hard disc drive (HDD) component and media extraction standard and large volume injection, LVI to Gas Chromatograph (GC) Direct injection both standard mode and LVI Multi mode inlet, MMI Modes and FIIR qualitative and quantitative

Operate and basic to advance instrument health checking on laboratory equipment such as Gas Chromatograph analyzer (GC), Mass selective detector, MSD, Thermal desorption unit, TDU, Auto disk extractor, Rotatory evaporator, Fourier Transform Infrared Spectrometer (FTIR), RAMAN Spectroscopy and others advance analytical cleanliness and contamination techniques.

Trouble shooting complex instrument issues until problem resolve and documented to work instruction (WI) or standard operating procedure (SOP)

Advance interpretation of organic chemistry from organic analysis via FTIR, RAMAN, Mass spectrometry, Mass spectroscopy and relevant organic analysis instruments

Knowledge transfer to lower subordinate and teammate

Phase 0 to Pre-SAD (Pre-Ship Approval Document) Failure Modes and Effects Analysis, FMEA

(Failure Modes and Effects Analysis) and PDP (Product Development Process), Product Development Process risk register) engaging for new product and new seal drive process review understanding and be able to be the coordinator.

Air and Helium PMR (Perpendicular Magnetic Recording) and HAMR (Heat Assisted Magnetic Recording) Product performance, contamination analysis, and other drive project contamination & Cleanliness improvement.

Expertise in organic analysis and characterization of key compound on drive components, process, and integration to drive level and post-drive test.

HAMR (Heat Assisted Magnetic Recording) Organic Contamination working team supporting factory and some proactive design center work request.

Establish and validate new metrology for unique processes, materials, and components related to organic holistic contamination generated during development through implementation.

Baseline benchmarking pre-POR and POR, Plan of Record material and component prior to SAD, Ship Approval Document

Establish internal control limits, and specifications for uncommon/unique materials and component.

Perform standard Product cleanliness, contamination analysis, and other new product qualifications and book build alignment.

Coordinate with concerned parties to solve problems related to organic outgas and residue contamination from material, and process.

Accomplish cleanliness and contamination project improvement.

Collaborate with cross-functional teams to solve the problem of contamination, material, and process.

Perform complicated analysis services with available equipment.

Support specific evaluation and correlations.

Supervise lower-level engineers and technicians on the principles of analytical techniques and others.

Control and maintain all lab instruments in a good condition.

Communicate the status of projects and progress to the supervisor.

Self-leading the assigned project, delivered project metric key results and summarize accomplishments, issues, and relevant assignments as the supervisor required.

Support the organizational goals in achieving total customer satisfaction.

Perform laboratory analysis and related jobs per supervisor assignment.

About you:

Strong knowledge in organic chemistry

Expert in Gas Chromatography with Mass Selective detector (MSD), Flame Ionize Detector (FID) and Thermal Desorption Unit (TDU)

Excellent teamwork, leadership, and coaching ability

Excellent of communicating in complex technical knowledge with cross-functional team

Excellent communication and presentation skills

Effective project management

Capable to manage resources and continual improvement mindset.

Ability to effectively plan, control and take responsibility for the group's results.

Able to prioritize multiple tasks, manage conflicting deadlines, and work effectively in a dynamic environment.

Fluent in both spoken and written English communication.

Change agility and skill developable

Hardworking and dedication

Your experience includes:

3-8 years of work experience using laboratory analytical instrument and techniques e.g. FTIR, GCMSD, RAMAN, DHS outgas, Organic extraction and intermediate to advance interpretation will be special consideration.

Good knowledge of laboratory analysis methodology

Having a good understanding of cleanliness and contamination improvement

Hard disc drive technology and related assemblies' process

Location:

Location: Teparuk, Thailand

Our Korat facility is our largest manufacturing site worldwide, with almost 8,000 employees. Here, our team produces cloud-based storage equipment, from individual storage components to finish drives. Our employees enjoy ample on-site parking as well as free shuttle vans and buses within the city of Korat, to and from Bangkok, and on the weekend to and from Khon Kaen University. At work you Home to 4,000+ employees, our Teparuk site produces nano-recording heads, a crucial component of the read/write functionality of a hard disk drive. Our Teparuk facility is a fun and active site. Here at work, you and your colleagues can grab breakfast, lunch, dinner, and snacks at our 24-7 on-site canteen and coffee shop. Get in a few laps around our running track or enjoy volleyball, ping pong, badminton or football through our on-site gymnasium and fitness center. Enjoy many on-site festivals and celebrations as well as opportunities to give back to the local community. can grab a delicious breakfast, lunch, dinner or snacks at one of our 24-7 on-site canteens or coffee shop. We offer ping-pong, a running/walking trail, basketball and volleyball teams, and classes in our on-site fitness center. We also have many on-site events and opportunities to give back to the local community.

Location : Teparuk Thailand

Travel : Up to 10%

Innovation thrives in a culture that embraces different voices, where employees are equal contributors and are empowered to express themselves authentically. Building this culture takes constant work and willingness to be transparent about progress. Read more in our Diversity, Equity, and Inclusion, .
- Learn more about our commitment to the U.S. military and veteran community by

watching this .

- 4th year in a row as a Best Employer for LGBTQ+ Equality

- 4th year in a row as a Best Company for Women in Technology

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