Company: Lumileds

Sr/Process Engineer – Dry Etch

Job Responsibilities:
- Development of dry resist stripping and Descum process.
- Establishing good process margins and inline controls of these new processes. Creating and updating of process specification and documentation of working procedure.
- Resolving reliability or yield issues related to the Dry etch processes and lead trouble-shooting of defect and yield issues and process excursions associated with the new process/tools.
- Championing engineering experiments for process characterization.
- Establish Out-of-control Action System, specifications for procedures to be followed.
- Provide training to engineering technicians and production personnel.
- Any other duties assigned by the manager.

Job Requirements:
- Bachelor or Post-graduate degree in/Chemistry/Materials Science/Chemical Engineering is required with more than 3 years of industry related research experience
- Strong knowledge of semiconductor Dry Etch process with strong team building and technical expertise to develop collaborative solutions.
- Self-driven leader and strong team player with keen technical ability, systematic approach, detailed-oriented, excellent problem solving skills, and positive attitude
- Good interpersonal and analytical skills.
- Ability to work independently, be hands-on and expected to dive into technical details as required.

Senior Process Engineer - Die Fab

Job Responsibilities:
- Establishing good process margins and inline controls of these new processes. Creating and updating of process specification and documentation of working procedure.
- Resolving reliability or yield issues related to the Wafer Backend processes and lead trouble-shooting of defect and yield issues and process excursions associated with the new process/tools.
- Championing engineering experiments for process characterization.
- Establish Out-of-control Action System, specifications for procedures to be followed.
- Provide training to engineering technicians and production personnel.
- Any other duties assigned by the manager.
Job Requirements:
- Bachelor or Post-graduate degree in Electrical Electronics Engineering /Mechanical Engineering or Materials Engineering is required with more than 3 years of work experience in Wafer Backend processes such as Wafer Grinding, Scribing and Singulation
- Strong knowledge of semiconductor process with strong team building and technical expertise to develop collaborative solutions.
- Experience in Spin Coating, Wet Clean, Wafer Back Grinding and Tape Mounting process would be advantageous.
- Strong knowledge on SPC and quality tools such as FMEA and Control Plan.
- Self-driven leader and strong team player with keen technical ability, systematic approach, detailed-oriented, excellent problem solving skills, and positive attitude
- Strong knowledge on SPC and quality tools such as FMEA and Control Plan.
- Good interpersonal and analytical skills.
- Ability to work independently, be hands-on and expected to dive into technical details as required.

**Senior Facilities Engineer - SCEM**

Job Responsibilities:
- Provide leadership to ensure Facilities Mechanical (ACMV, Exhaust/Scrubbers, Chiller, Condenser Water, CDA, Process Vacuum, Fire Protection) and Water (NPW, PW, DIW, WW, PCW, Waste Collection, Water Treatment) system capacity and performance are meeting current and future requirements.
- Lead Energy/Water Conservation programs, through system optimization and implementing improvement/cost reduction projects based on economic feasibility to meet Sustainability KPIs.
- Provide technical support to Operations & Maintenance team in resolving complex Mechanical & Water system issues.
- Specify and review Mechanical Engineering standards, SOPs and maintain Facilities system documents.
- Evaluate work performance of the contractors.

Job Requirements:
- Degree in Mechanical/ Electrical or any other engineering discipline with minimum 5 years of work experience in Facilities Engineering, Energy/Water/Waste reduction projects, in a Semiconductor manufacturing environment.
- Candidates with SCEM (Singapore Certified Energy Manager) certification will be preferred.
- Ability to lead cross functional projects in a fast paced work environment.
- Good knowledge in relevant Code of Practice, AUTOCAD drawings and Project Management.
- Excellent Team player, adaptable, organized, highly motivated and analytical.
• Good in communication, interpersonal skills and able to work with minimum supervision.
• Good computer knowledge and skills in Microsoft EXCEL, WORD, POWERPOINT etc.

**Senior/Equipment Engineer – Pick & Place**

**Job Responsibilities:**
• Development, process/product characterization and qualification of WSS (Wafer Support System), Wafer Back grind and Tape mounting processes for pilot runs and volume ramp within the Singapore Operations.
• Establishing good process margins and inline controls of these new processes. Creating and updating of process specification and documentation of working procedure.
• Resolving reliability or yield issues related to the Wafer Backend processes and lead trouble-shooting of defect and yield issues and process excursions associated with the new process/tools.
• Championing engineering experiments for process characterization.
• Establish Out-of-control Action System, specifications for procedures to be followed.
• Provide training to engineering technicians and production personnel.
• Any other duties assigned by the manager.

**Job Requirements:**
• Bachelor or Post-graduate degree in Electrical Electronics Engineering /Mechanical Engineering or Materials Engineering is required with more than 3 years of work experience in Wafer Backend processes such as Wafer Grinding, Scribing and Singulation
• Strong knowledge of semiconductor process with strong team building and technical expertise to develop collaborative solutions.
• Experience in Spin Coating, Wet Clean, Wafer Back Grinding and Tape Mounting process would be advantageous.
• Strong knowledge on SPC and quality tools such as FMEA and Control Plan.
• Self-driven leader and strong team player with keen technical ability, systematic approach, detailed-oriented, excellent problem solving skills, and positive attitude
• Strong knowledge on SPC and quality tools such as FMEA and Control Plan.
• Good interpersonal and analytical skills.
• Ability to work independently, be hands-on and expected to dive into technical details as required.

**Equipment Engineer - Lithography**

**Job Responsibilities:**
• The introduction of new front-end equipment to support new-product introduction, volume ramp, and production efficiency improvements.
• Developing equipment maintenance strategies and procedures, and engaging vendors on service contracts.
• Establishing set-up procedures, and on-going calibration and preventive maintenance schedules on wafer fab equipment. Writing maintenance specs and training maintenance personnel.
• Analysing and improving equipment performance, leading maintenance cost reduction activities, and developing specifications and guidelines for new semiconductor equipment installations.
• Trouble-shooting line issues such as tool events, yield issues and jobs on-hold. Establishing and maintaining manufacturing techniques and best practices.

Job Requirements:

• Degree in Electrical and Electronics / Mechanical / Manufacturing Engineering.
• At least 5 years hand-on experience on LED manufacturing frontend equipment and processing.
• Experience to handle TEL Track MK8/ACT8, ASML PAS5500/22/100/2XX/300, BSL OS2000 Micralign
• Provide leadership for technician, equipment and process engineers. Able to lead the team for continuous improvement in any equipment and process related issue.
• Good team player with strong interpersonal, analytical and leadership skills.
• Possess good experience to handle and lead equipment transfer, setup, installation and buy-off from overseas independently.
• Able to train up a team strong equipment trouble shooting technicians and engineers within the transfer period.
• ZERO equipment line down situation that affect the transfer project and production delivery during and after the transfer period. In this case, we expect you to setup good equipment PM procedure and spare part management system with good technician support.

Process Engineer - Molding

Job Responsibilities:

• Establish and lead process control and improvement activities. Ability to research and analyze literature and reference materials for improvements developments.
• Lead and work with a team of AE to attend the process related issue in the production line, defining containment plan and drive for resolution.
• Drive cost saving projects through innovative process simplification ideas.
• Ability to work on the process characterization systematically and drive for improvement actions.
• Maintaining process health through managing of SPC and periodic defect Pareto Analysis.
• Ability to work in collaboration with cross function team to resolve issues.
• Owner of process operation instruction and ensure process compliance is met.
• Liaise and coordinate with NPI group to ensure proper handshaking before production release.
• Any other duties as directed by the Engineering Section Manager.
Job Requirements:

- Bachelor’s Degree in Materials/Mechanical/Electrical Engineering or relevant engineering degree is required.
- Min 2 years working experience in process engineering.
- Experience in compression/injection molding is preferred.
- *Experience with manufacturing operation, failure analysis and LED knowledge will be added advantage.*
- Requires excellent communication skills (presentation, written, verbal) of both technical and non-technical issues
- A team player with good communication, analytical and problem solving skills.
- Strong organizational skill and is self-motivated.
- Enjoys fast-paced and dynamic environment

Process Engineer – Wet Etch

Job Responsibilities:

- Responsible for co-developing, process/product characterization and qualification of the overall Wet Etch and Cleaning Process
- Responsible for selection and specification of new tools platform for high volume production
- Responsible for championing engineering experiments for process characterization
- Responsible for establishing good process margins and inline controls of these new processes. Creating and updating of process specification and documentation of working procedure
- Responsible for process control chart setup and maintenance of Cp/Cpk performance
- Perform routine reporting of project status.
- Responsible for resolving reliability or yield issues related to the Wet Etch and Cleaning Technology processes and lead trouble-shooting of defect and yield issues and process excursions associated with the new process/tools

Job Requirements:

- Bachelor or Post-graduate degree in Physics/Chemistry/Materials Science/Chemical Engineering is required with more than 3 yrs of industry related research experience.
- Prior experience in semiconductor fab process technology is required.
- Working knowledge in Si, sapphire wet processes would be preferred.
- Self-starter who is independent, resourceful and results-oriented
Development Engineer

Job Responsibilities:

- To Support DDD technical project leaders on:
- Assisting the TPLs to drive the projects
- Materials preparation, Shopping Cart & Shipment
- Start and track engineering builds to ensure correct execution.
- Part Number Creation, work flow setup/edits, documentation (FMEA/DRBFM/Control Plan/P1&P5 SPEC/PCR) & system (PDM/MES/SAP/JDE) update
- Data collection, compilation and analysis.
- Yield analysis/Reliability and other issue troubleshooting
- Data traceability and PnP map edits
- Die cost model establishment and analysis
- Report preparation for project milestone review
- Knowledge of MES system will be a preference

Job Requirements:

- PI or process technician background with 3~6 years’ experience. PI background is preferred. Additional knowledge on semicon module knowledge has additional advantage.
- Strong knowledge in Microsoft office, especially Excel and Power point.
- Programming / Macro writing to extract the information fast
- Good at hands-on tasks as well as office work.
- Fast learner with strong will to explore unknown areas.
- Self-motivated and possess strong initiative to take up ownership in grey area.
- An excellent team worker with good communication skills in both English and Mandarin.
- Ability to adapt to new environment and position fast and readily prepared for dynamic work nature changes based on business needs.

Application
Send your resume to ramesh.manickam@lumileds.com and bee.chin.loh@lumileds.com.
By 30 September 2019.