PR/161233 | Senior / Senior Staff Product Quality Engineer (Reliability & Quality Assurance)

Job Information

Recruiter
JAC Recruitment Malaysia

Job ID
1618542

Industry
Electronics, Semiconductor

Job Type
Permanent Full-time

Location
Malaysia

Salary
Negotiable, based on experience

Refreshed
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General Requirements

Minimum Experience Level
Over 3 years

Career Level
Mid Career

Minimum English Level
Fluent Level

Minimum Japanese Level
None

Minimum Education Level
Associate Degree/Diploma

Visa Status
No permission to work in Japan required

Job Description

A leading global semiconductor technology company is seeking a Senior Product Quality Engineer to join its quality and reliability organization.
In this role, you will be responsible for driving long-term product quality and reliability performance throughout the product lifecycle. You will lead Ongoing Reliability Testing (ORT) programs, evaluate product robustness, identify reliability risks, and ensure products consistently meet customer expectations and industry standards. Working closely with Design, Manufacturing, Test Engineering, Reliability Labs, Failure Analysis teams, and Customer Quality organizations, you will play a key role in preventing defects, improving reliability performance, and driving continuous quality improvement initiatives.
The ideal candidate combines strong semiconductor quality and reliability expertise with excellent analytical and problem-solving skills. You possess hands-on experience in qualification, reliability monitoring, failure analysis, and risk management, and have a passion for ensuring high-quality products in a fast-paced manufacturing environment.

Key Responsibilities

- Lead and optimize Ongoing Reliability Testing (ORT) programs for products in production to ensure long-term reliability performance.

- Define, implement, and continuously improve ORT plans, stress testing methodologies, and reliability monitoring strategies.
- Develop reliability test plans based on product application requirements, operating conditions, and customer expectations.
- Participate in product development and production transfer milestones to assess reliability risks and establish reliability requirements.
- Review and approve product qualification activities involving new products, material changes, process modifications, and second-source qualifications.
- Ensure compliance with customer requirements, internal specifications, and applicable industry standards.
- Communicate reliability strategies, test plans, results, and risk assessments to internal stakeholders and customers.
- Lead reliability-focused risk assessments including DFMEA, PFMEA, and other quality planning activities.
- Evaluate qualification and ORT data, identify potential risks, and provide recommendations for product release and change management approvals.
- Generate comprehensive qualification and reliability reports with clear conclusions and corrective action recommendations.
- Lead failure analysis investigations related to qualification, reliability, and production issues.
- Drive root cause analysis and corrective actions using quality methodologies and structured problem-solving approaches.
- Collaborate with cross-functional teams to implement reliability improvements and enhance product robustness.
- Monitor reliability trends and identify early warning signals to proactively prevent quality issues.
- Ensure lessons learned from reliability findings are incorporated into future product designs, manufacturing processes, and quality systems.
- Support continuous improvement projects related to reliability monitoring, quality performance, and operational efficiency.

Key Requirements

- Bachelor's Degree in Electrical Engineering, Electronics Engineering, Materials Engineering, Physics, Reliability Engineering, or a related technical discipline.
- Minimum 5 years of experience in Product Quality, Reliability Engineering, Quality Assurance, Product Engineering, or Semiconductor Manufacturing.
- Strong understanding of semiconductor technologies, manufacturing processes, and product lifecycle management.
- Experience in Ongoing Reliability Testing (ORT), qualification programs, and reliability monitoring activities.
- Strong knowledge of semiconductor wafer fabrication, assembly, packaging, and test operations.
- Experience in reliability assessment methodologies, accelerated testing, and statistical reliability analysis.
- Proven experience conducting failure analysis and root cause investigations.
- Strong analytical, troubleshooting, and data interpretation skills.
- Experience applying quality methodologies such as FMEA, 8D, CAPA, and root cause analysis tools.
- Strong technical report writing and presentation skills.
- Excellent communication skills with the ability to engage technical and non-technical stakeholders.
- Ability to lead cross-functional projects and influence stakeholders without direct authority.
- Willingness to travel internationally when required.

Preferred Qualifications

- Experience within semiconductor, automotive semiconductor, power management, mixed-signal, or advanced

packaging environments.

- Knowledge of industry standards such as JEDEC, AEC-Q100, IPC, ISO 9001, and IATF 16949.
- Experience with reliability acceleration models, Weibull analysis, and statistical reliability prediction techniques.
- Familiarity with customer quality management and field reliability monitoring.
- Experience managing supplier quality or external manufacturing quality programs.
- Exposure to advanced failure analysis techniques involving electrical, mechanical, and materials characterization.
- Experience leading reliability improvement and quality excellence initiatives.

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Company Description