



PR/160603 | Senior Reliability Engineer (Failure Analysis & Qualification)

Job Information

Recruiter

JAC Recruitment Malaysia

Job ID

1600308

Industry

Electronics, Semiconductor

Job Type

Permanent Full-time

Location

Malaysia

Salary

Negotiable, based on experience

Refreshed

June 30th, 2026 10:41

General Requirements

Minimum Experience Level

Over 3 years

Career Level

Mid Career

Minimum English Level

Fluent

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 organization is seeking a Senior Reliability Engineer to join its Global Reliability Lab, supporting product qualification from early development through high-volume manufacturing. This role is critical in ensuring long-term product robustness and reliability by defining qualification strategies, executing reliability testing, and driving failure investigations. You will work closely with cross-functional teams across Design, Test, Failure Analysis, Manufacturing, Quality, and external suppliers to ensure products meet stringent industry, automotive, and customer reliability standards.

Key Responsibilities

- Execute reliability qualification plans for semiconductor devices, components, and modules across development and production stages.
- Develop and implement comprehensive reliability test strategies, including HTOL, HAST, THB, Temperature Cycling (TC), HTSL, PTC, and mechanical stress testing.
- Analyze test results, investigate failures, and provide clear, data-driven conclusions and corrective recommendations.

- Assess and mitigate reliability risks associated with new technologies, materials, and manufacturing processes.
- Ensure compliance with industry standards such as JEDEC, IEC, MIL, IPC, and customer-specific requirements.
- Collaborate with cross-functional teams (Design, Test, Failure Analysis, Manufacturing, Quality) to resolve reliability issues and improve product robustness.
- Support New Product Introduction (NPI) and production ramp by ensuring reliability targets are achieved.
- Drive continuous improvement initiatives in reliability performance and qualification efficiency.

Key Requirements

- Bachelor's degree in Electrical or Electronic Engineering (or related discipline).
- Minimum 5+ years of experience in semiconductor reliability engineering.
- Proven track record supporting products from development to high-volume manufacturing (NPI to HVM).
- Strong understanding of reliability physics and failure mechanisms (e.g., electromigration, corrosion, thermal fatigue, dielectric breakdown).
- Hands-on experience with reliability testing methodologies and environmental/mechanical stress equipment.
- Ability to interpret schematics, layouts, and mechanical drawings.
- Strong analytical and problem-solving skills, particularly in failure analysis and root cause investigation.
- Experience in automotive, industrial, or high-reliability applications is an advantage.
- Effective communication skills and ability to collaborate across global teams.

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Company Description