

SQM, Semiconductor Solution, IC Testing Senior Engineer

Your tasks

Key Responsibilities

Advanced Electronics & Semiconductor Solutions (AESS)

Supplier Quality Management

- Develop, implement, and maintain a supplier quality management system for wafer sort, Burn-In, and Final Test suppliers.
- Define and track supplier quality KPIs (Yield, PPM, test escapes, reliability failures..)
- Conduct periodic business and quality reviews with key partners to align expectations and improvement.

Compliance & Audits

- Plan & conduct VDA6.3 process audit & IATF16949 system audits at test suppliers
- Ensure full compliance with AEC-Q100 reliability qualification and customer specific requirement.
- Support APQP/PPAP deliverables for new product and changes.

Issue Resolution & Problem Solving.

- Lead root cause analysis and CA/PA(8D) for test related issues (yield drops, reliability failure, test escapes, burn-in fallout)
- Ensure robust containment, root cause analysis, and permanent corrective actions (PCA) are implemented at suppliers.

New Process/Components Introduction

- Work with R&D and Technology & Operation Team to approve test spec, correlation study, control plans, reliability requirements, and FA report.
- Validate Supplier readiness for NPI and new component introduction, including hardware/software, burn-in boards, and correlation validation.
- Ensure robust change management (PCN/ECN) in line with automotive standards.

Continuous Improvement

- Drive suppliers towards zero-defect strategy, focusing on process capability (CP/CPK), test coverage improvement, automation.
- Reduce test escapes, reliability fallout, and field returns risks through proactive improvement actions.
- Benchmark and share best practices across the supply base to strengthen supplier competence.

Reporting & Documentation



Job ID

REF743490

Field of work

Quality

Location

Singapore

Leadership level

Leading Self

Legal Entity

AUMOVIO Singapore Pte. Ltd.

- Maintain up-to-date audit records, PPAP packaging, reliability data, FA reports, and supplier dashboard.
- Provide regular management update and supplier quality status, risks and improvement progress.

Your profile

- Academic degree in Engineering, Business administration or comparable qualification
- Minimum 5+ years of experience in semiconductor industry. Prefer in OSAT or fabless environment related to test.
- Proven track record in managing quality for wafer test, final test, and burn-in suppliers.
- Strong understanding of semiconductor test flows, reliability testing, and failure analysis.
- With experience in Purchasing, R&D, Controlling or comparable preferably Automotive Industry
- Strong knowledge o AEC-Q100, IATF16949 APQP and PPAP process.
- Expertise in 8D, FMEA, SPC, DOE and risk management tools.
- Bilingual in English & Mandarin as need to liaise with Asia and Europe offices
- Strong Decision-Making Skills and entrepreneurship
- Project management knowledge, strong attention to detail and agile result-oriented negotiation skills
- Eager to learn new skillsets and to develop personally
- Strong team contributor, comfortable in collaborating with cross functional and highly multicultural teams in a highly active, fast paced environment across multiple time zones
- Excellent presentation and written communication skills to various levels of the internal and supplier organizations
- Willingness to travel regionally and globally to support supplier sites and audits.

Our offer

Ready to take your career to the next level? The future of mobility isn't just anyone's job. Make it yours! **Join AUMOVIO. Own What's Next.**

About us

Since its spin-off in September 2025 AUMOVIO continues the business of the former Continental group sector Automotive as an independent company. The technology and electronics company offers a wide-ranging portfolio that makes mobility safe, exciting, connected, and autonomous. This includes sensor solutions, displays, braking and comfort systems as well as comprehensive expertise in software, architecture platforms, and assistance systems for software-defined vehicles. In the fiscal year 2024 the business areas, which now belong to AUMOVIO, generated sales of 19.6 billion Euro. The company is headquartered in Frankfurt, Germany and has about 87.000 employees in more than 100 locations worldwide.