

Principal / Senior Engineer, Test Engineering, Technical Operations Management

Your tasks

At **AUMOVIO AESS**, we are building the next generation of automotive semiconductor solutions that enable safer, smarter, and more connected mobility.

We are looking for a highly motivated **Principal / Senior Test Engineering** to join our growing **Technical Operations Management (TOM)** organization. The role will drive test engineering excellence from new product introduction (NPI) through high-volume manufacturing, which plays a critical role in ensuring products achieve automotive-grade quality, reliability, manufacturability, and cost target.

Candidate with hands-on ATE test development experience (Advantest V93K), automotive semiconductor test engineering and manufacturing ramp experience from NPI to high-volume production is highly preferred.

Key Responsibilities

- **IC Test Development & Manufacturing Release**
 - Lead transfer of wafer sort (CP), burn-in, and final test (FT) solutions from R&D into manufacturing.
 - Debug, qualify, release and sustain ATE test programs for volume production.
 - Support silicon bring-up, characterization, correlation, and production validation.
 - Drive test coverage optimization, multi-site efficiency, test time reduction, and manufacturing readiness.
 - Qualify and maintain test hardware including probe cards, load boards, burn-in boards, and sockets.
- **Manufacturing & OSAT Management**
 - Serve as the technical focal point for OSAT test and burn-in operations.
 - Support qualification builds, product ramp-up, manufacturing transfers and sustaining activities.
 - Collaborate with OSATs and suppliers to resolve testing related technical and production issues.
 - Drive manufacturing yield, quality, productivity and operational



Job ID
REF10505U

Field of work
Engineering

Location
Singapore

Leadership level
Leading Self

Legal Entity
AUMOVIO Singapore Pte. Ltd.

excellence.

- **Product Engineering Partnership**

- Work closely with Product Engineering on characterization, qualification, yield improvement, and production release.
- Define test limits, screening strategies and production release criteria.
- Support NPI, reliability qualification, and product change management activities.
- Drive data-driven decisions to improve product quality and manufacturability.

Your profile

Required:

- Bachelor's, Master's, or PhD in Electrical Engineering, Electronics Engineering or related field.
- Minimum 5+ years (Senior Engineer) or 8+ years (Principal Engineer) of semiconductor industry experience in Test Engineering or Product Engineering.
- Experience in product testing solutions development (ATE SW and HW, Burn-In) and release for high-volume production with OSAT is highly preferred.
- Experience in managing product test operation with OSAT.
- Self-motivated, hands-on team player with a strong ownership mindset, capable of delivering results in a dynamic and rapidly growing startup environment.
- Strong collaboration, communication, and interpersonal skills, with the ability to work effectively across global and multicultural teams.
- Excellent analytical and problem-solving skills, combining data-driven decision-making with sound engineering judgment.

Preferred Technical Experience

- Hands-on experience in ATE test development, debug, characterization, qualification, and production release for Wafer Sort, Burn-In, and Final Test.
- Strong knowledge of Advantest V93000 (V93K) SmarTest platform and test program development.
- Experience in test hardware development, including Probe Cards, Load Boards, and Burn-In Boards.
- Expertise in silicon characterization, correlation, shmoo analysis, yield improvement, and failure analysis.
- Experience with OSAT qualification, production ramp-up, and high-volume manufacturing operations.
- Proven capability in test coverage optimization, test time reduction, and cost improvement.
- Strong skills in test data analytics and statistical methods.

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.