



Principle Engineer Failure Analysis

Job description

Expert role and complex Electrical Failure Analysis (EFA) Handling of business process (Failure Analysis and Customer Return) Expert for kerf EFA (e.g. PCM / FWLR failure)

In your new role you will:

- Expert role and complex Electrical Failure Analysis (EFA)
- Handling of business process (Failure Analysis and Customer Return)
- Expert for kerf EFA (e.g. PCM / FWLR failure)
- Advanced fault localization of parametric failure (prominent leakages, short / open) and functional failure (bench verification + EFL technique)
- Perform IC (complex functional) Failure Analysis [FA] on wafer and package level from electrical verification, fault isolation and physical root cause analysis.
- Participate, lead and present FA results in cross functional meetings, projects, yield improvement, urgent and important meetings.
- Interface with designers, test, product, process integration and unit process engineers to understand the analysis requirement.
- Identify development opportunity of new EFA techniques and improve FA skills and techniques to enhance analysis quality, speed and cost
- FA readiness on new Transfer Technology or products
- FA equipment / tool ownership.
- Provides on-the-job training and identify development opportunity to all level of colleagues.

Profile

You are best equipped for this task if you have:

- Degree / Master / Ph.D. in Electrical and Electronic Engineering
- 8+ years of working experience
- Advanced Electrical Failure Verification and Localization, i.e. scan logic, Hi-Level Tester, SDL analysis,
- Sample preparation, i.e. mechanical polishing, precision cleaving, wet/dry chemical, backside preparation, package preparation.
- Imaging, i.e. optical, SEM and FIB (incl. Voltage Contrast). Repackaging skill i.e. COB

At a glance

Location: **Kulim (Malaysia)**
Job ID: **349146**
Start date: **as soon as possible**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

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- CAD Navigation plus Cross Mapping Schematic, Software Diagnosis on Logic FA Circuit troubleshooting via micro probing (A-pad, FIB pad or AFP)
- Semiconductor processing, fabrication and testing.
- Medium – advanced knowledge of semiconductor technologies, development and production as well as of logistic processes.
- Good knowledge of mentoring and development.
- Evaluate new/complex situations using analytical thought Experienced /demonstrated ability to solve problems systematically.
- Communication skill: local to global

Benefits

- **Kulim:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working conditions; Holiday child care; Medical coverage; On-site social counselling and works doctor; Health promotion programs; On-site gym, jogging paths, beachvolleyball, tennis & soccer court; On-site canteen; Private insurance offers; Flexible transition into retirement

Why Us

Part of your life. Part of tomorrow.

Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

