

Product Reliability Engineer

Job Description

In this position, you will report to the Product Engineering Manager and direct and monitor the reliability test effort, with associated data analysis, failure analysis, and reporting, for development of new VCSEL devices. All phases of the device lifecycle are covered, from the initial reliability testing of new R&D devices including failure analysis, to wafer qualification, as well as establishing burn-in procedures when in production. Most of the reliability testing work will be outsourced to external Test Houses in Europe.

Key responsibilities

- Responsible for developing optimal product qualification and reliability test plans for new VCSEL components.
- Ensures that reliability test methods and processes meet industry standards (e.g., Telcordia, MIL-STD) and customer requirements.
- Monitors reliability metrics and goals to drive quality improvement efforts.
- Monitor and manage product reliability testing and Burn-in tests with subcontractors in Europe.
- Resolve on-going device related issues as well as reliability issues with foundry and subcontractors in co-ordination with BeamExpress R&D team and Product Engineering Manager.
- Issue reports on reliability results obtained at our test subcontractors. Write and publish qualification reports.
- Manage failure/reliability improvements activities.
- Provide guidance to internal team and interface with customers regarding reliability questions or concerns.
- Maintain close communications with Test subcontractors and the BeamExpress' R&D team.

Requirements:

- 5+ years relevant work experience in semiconductor Reliability Engineering, Failure Analysis, Product Engineering, Test Engineering, or Fab Process Engineering
- Expertise in III-V technology and the many aspects of the physics of failure of Laser devices
- Hands-on as well as extensive experience with Semiconductor Reliability. Experienced in reliability testing, statistical data analysis and reliability statistics.
- Ability to effectively communicate and coordinate tasks with internal team and external subcontractors
- Good team work in cross-functional teams. Willing to work in an entrepreneurial start-up environment.
- Good at speaking, writing, reading English

Education and experience

- Degree in Electronic Engineering, Semiconductor Physics or equivalent background.
- Experience in the field of semiconductor and/or Laser technologies.

Location : Lausanne, Switzerland near the Swiss and French Alps

Start date : 2011

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