



# **Global Communication Semiconductors, LLC**

Corporate & Foundry

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Website: [www.gcsincorp.com](http://www.gcsincorp.com)

Job Title: **Reliability and Failure Analysis Engineer**

Job Req: #0559

Department: R & D Hemt – TD/Reliability

Status: Full-Time, Exempt

## **Job Description**

This job opening is for a dedicated reliability test and failure analysis (FA) engineer. The FA engineer will conduct failure analysis of customer's returns and internal product/device failures from R&D and production line. The devices to be analyzed are GaAs, GaN, and other products.

Responsibilities include:

- Use optical, SEM, photo-emission microscopy, and electrical micro-probing for initial device failure examination.
- Decide what or how to do FA, such as de-layering, mechanical cross-sectioning; FIB, SIMS
- To develop an in-house mechanical cross-section set up and electrical probing station
- Interact with vendors for tasks (FIB, SIMS, Auger, HAST, etc)
- Write formal failure analysis report for each assigned task.
- Communicate with device, product, process, R&D, and QA personnel during the FA task.
- Work in a clean room environment for certain FA tasks.

## **Job Requirements**

- MS or higher in Electrical Engineering, Physics, or Materials Science.
- Minimum of 5+ years FA experience.
- Understanding of semiconductor physics and semiconductor processing
- Prefer to have hands-on experience on physical cross-section and can set up one.
- Must be motivated, organized and attention to details.