



Global Communication Semiconductors, LLC

Corporate & Foundry

23155 Kashiwa Court, Torrance, CA. 90505

Telephone: 310-530-7274 Fax: 310-517-8200

Website: www.gcsincorp.com

Job Title: **Sr. Device Modeling Engineer**
Job Req: **#0587**
Department: **Foundry Services**
Status: **Full-Time/Exempt**

Job Description

The Sr. Device Modeling Engineer will be responsible for the development and maintenance of both linear and non-linear device models. The modeling effort is to support existing and new process development in HBT, FET and Diode technologies, etc. The completed models to be documented in a Process Design Kit (PDK) using both ADS and MWO design software. These models will be used both internally and externally in the design of RF/microwave MMIC and Hybrid circuits. This position also supports customer both internally and externally.

- Development, refinement, and support of custom linear and non-linear device models for use with industry standard circuit stimulators, such as Agilent ADS, AWR & MWO.
- Device testing and characterization, including s-parameters, load pull, noise parameters characterization, pulsed I-V characterization and other device testing in support of model development and validation.
- Generation and configuration of test methods and procedures associated with device modeling, including device parameter extraction, de-embedding and fitting.
- Internal and external model distribution, including tracking, archiving, and revision control.
- Development of passive element and package model characterization and modeling.
- MMIC Foundry and commercial customer support including model and PDK documentation and training.
- Support of reference designs for external customer use.
- Supervising of junior level technical staff.

Job Requirements

- MSEE or equivalent experience required. PhD a plus.
- Minimum of 7 years device characterization and modeling experience, preferably with experience modeling GaN devices.
- Proficiency in design software, such as ADS and MWO.
- Proficiency in RF software and measurement system.
- Evaluation board design experience a plus.
- Demonstrated ability to work successfully within schedule constraints.
- Excellent communication and team skills.