

Characterization and Modeling Engineer

Incize is recruiting a self-driven and motivated professional to join the modeling and characterization team, located in Belgium. As characterization and modeling engineer, you will support R&D activities and develop new products for clients from the RF industry.

Objectives/Tasks/Mission

In charge of modeling and device characterization for advanced on-wafer RF device technology, the candidate will work closely with our modeling and characterization experts as well as with external foundries to develop custom spice models and libraries. Jointly with the team, the candidate is expected to:

- Develop modeling test structures,
- Develop reference measurement flows for accurate device characterization (best practices),
- Perform on-wafer characterization, including DC/AC, S-parameters, noise,
- Develop accurate methodologies for data analysis,
- Extract Spice modeling parameters,
- Generate Spice models and libraries,
- Deliver technical reports.

Qualifications, Competences & Knowledge

- **Master of Science in Physics or Electrical Engineering required, PhD desirable**
- Semiconductor device physics (especially advanced MOSFETs and BJTs) and CMOS process flow
- Knowledge of Silicon-on-Insulator (SOI) advantageous
- Knowledge of GaN devices advantageous
- Characterization techniques (DC, AC, noise) and tools (ICCAP)
- Spice model generation (BSIM, PSP) for RF applications
- SPICE-like circuit simulators (Hspice, Spectre) and model extraction flow
- Scripting language (e.g. Python) advantageous
- Knowledge of industrial standard PDK development
- Knowledge of layout design of RF test structures
- Problem solving and communication skills within a multicultural environment

What we offer

- Competitive salary
- Comfortable work environment in an international team
- Opportunities to learn from experts in the field

How to apply

Please send your CV, a list of publications and a cover letter to info@incize.com with the subject line *job_CM01_2018_lastname*. References to be provided upon request.

About Incize

Incize is a company offering characterization and modeling services of devices and materials used for RF applications. Incize also provides radiation hardness test services. We work with foundries and fabless companies around the world. Incize is based in Louvain-la-Neuve, Belgium.

Visit incize.com to find out more.

