

Device Modeling Engineer

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

Objectives and tasks

In charge of device modeling of advanced RF devices, the successful 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)
- Be critical toward measurements and fitting with device simulation
- Propose improvements on existing models based on device physics (and potentially TCAD simulation)
- Extract Spice modeling parameters
- Generate Spice models and libraries

Qualification and expertise

- **Master in Physics or Electrical Engineering required, PhD is an advantage**
- **Have a deep knowledge of semiconductor device physics (advanced MOSFETs and BJTs) is required for this position**
- Knowledge of Silicon-on-Insulator (SOI) technology is an advantage
- Experience with TCAD simulation is an advantage
- 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

Location

Louvain-la-Neuve, Belgium

How to apply

Please send your CV, a list of publications and a cover letter to jobs@incize.com with the subject line *job_DM01_2020_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. We work with foundries and fables companies around the world. Incize is based in Louvain-la-Neuve, Belgium.

Visit incize.com to find out more.

