

Senior Device Physics Engineer

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

Objectives and tasks

In charge of simulation and optimization of advanced RF devices, the successful candidate will work closely with our modeling and characterization experts as well as with external foundries to investigate, optimize and implement new RF device technologies. Jointly with the team, the candidate is expected to:

- Develop and implement TCAD simulation environments for advanced technologies
- Optimize device and technology parameters towards application targets
- Develop new TCAD simulation approaches for new technology phenomena
- Implement devices and materials models at numerical and TCAD levels
- 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)

Qualification and expertise

- **PhD in physics, electronics or material science**
- **Have a deep knowledge of semiconductor device physics (advanced MOSFETs and BJTs) and microwave theory is required for this position**
- Knowledge of Silicon-on-Insulator (SOI) technology is an advantage
- Extended experience with TCAD simulation
- Spice-like circuit simulators (Hspice, Spectre and ADS)
- Scripting language (e.g. Python,..)
- Knowledge of layout design of RF test structures is advantageous

- Experience in designing and running experiments in microwave and optics domains
- Problem solving and communication skills within a multicultural environment
- Passion for research and innovation

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_DP01_2022_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 fabless companies around the world. Incize is based in Louvain-la-Neuve, Belgium.

Visit incize.com to find out more.

