



Design Methodology Engineer for Simulation Solutions (f/m/div)*

Job description

In our fast-changing world, the technology industry is facing different types of challenges. Our R&D team is constantly looking for new and innovative methods and tools, in order to come up with the best solutions for our customers. Are you ready to leave your mark in future technology and work for a greener future? Then join us as a Design Methodology Engineer for Simulation Solutions in Bucharest and find a challenging and stimulating environment, which will enable you to develop new skills and knowledge.

As a Design Methodology Engineer for Simulation Solutions, you will create customized methods for multi-physics analysis in electro-thermo-mechanical phenomena in Integrated Circuits (IC). You will work on the development and flow integration of the simulation solutions used in the design, optimization, and verification of power integrated electronic circuits.

Some of the tasks area the following:

- **Develop** and **optimize simulation methods** for multi-physics analysis
- **Select** appropriate **numerical methods and solvers**
- Define **simulator runsets** with material models and parameters in accordance with technology and product data
- Work with product development teams to **define simulation requirements** and **review simulation results**
- **Develop test structures** and **test setups** for laboratory characterization and calibration of simulation tools
- Support our worldwide user community

Profile

You are best equipped for this task if you have:

- A Master degree in **Electrical Engineering**, **Computer Science** or **Physics** (PhD is highly appreciated)
- Knowledge about **semiconductor device physics** and **fabrication processes**.
- Knowledge of **numerical methods** and experience with **multi-physics simulation** tools (e.g. **ANSYS**, **COMSOL**, **Abaqus**)
- **Basic programming skills** (e.g. Python, MatLab/Octave, Perl, C/C++)
- Very good command of English language.

It is a plus if you have:

- Experience with numerical modeling of electro-thermal (and mechanical) phenomena
- Basic experience with Unix/Linux environment
- Basic experience with Matlab/Octave
- Basic experience with IC simulation environment (e.g. Cadence)

At a glance

Location: **Bucharest (Romania)**
Job ID: **350838**
Start date: **as soon as possible**
Entry level: **3-5 years**
Type: **Full time**
Contract: **Permanent**

Apply to this position online by following the URL and entering the Job ID in our job search:

Job ID: **350838**
www.infineon.com/jobs

Contact

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Talent Attraction Manager



Benefits

- **Bucharest:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working hours at many sites; Home office options; Medical coverage; Health promotion programs; On-site gym with special rates; On-site canteens; Wage payment in case of sick leave based on applicable law; Corporate pension benefits for engineers; Performance bonus options; Accessibility, access for wheelchairs

Why Us

Part of your life. Part of tomorrow.

Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

** The term gender in the sense of the General Equal Treatment Act (GETA) or other national legislation refers to the biological assignment to a gender group. At Infineon we are proud to embrace (gender) diversity, including female, male and diverse.*

