

# Driving decarbonization and digitalization. Together.



## Product Modeling and Simulations Engineer for Automotive Power Applications (f/m/div)

### Job description

Are you looking for an exciting opportunity in the semiconductor industry? Are you interested in motor drive electronics? Then join our team! As a Product Modeling and Simulations Engineer you will be responsible for the development of full chip behavioral models!

As a Product Modeling and Simulations Engineer you will be responsible for the development of full chip behavioral models targeted for analog simulators for various types of automotive power products that are delivered directly to external customers. In your new role you will:

- Develop **full chip** behavioral models targeted for **analog simulators** for a various range of product complexities (eg: Power Switches, LED drivers, DCDCs, Bridges, Motor Drives)
- Have full responsibility for **product model development** from concept to implementation and verification according to requested specifications
- Align with stakeholders on model requirements (eg: accuracy, complexity, feature set, etc).
- Offer **technical guidance** on modeling and simulation capabilities and limitations
- Provide **customer support** for model integration and **trainings** for model and simulation tool usage
- Contribute to **defining** and **improving behavioral modeling methodology** (eg: investigate new tools, simulators, modeling languages, emulation capabilities, synergies with other skills)

### Profile

You have good analog understanding which helps you derive an abstract model form an IC concept in a hardware description language (eg: PSpice). You have an application view and aim for understanding how your model integrates into the customer system. You are motivated to continuously look for more efficient ways to describe analog concepts. You like working with multiple tools and simulators and getting an in depth view/understanding of simulation engine and its behavior. You are an organized person and this is seen in your modeling code structure and documentation. You are best equipped for this task if you have:

- A Bachelors' degree in Electronics Engineering, Applied Electronics or equivalent degree
- Good understanding of semiconductor physics and circuitry

### At a glance

Location: **Bucharest (Romania)**  
Job ID: **99514**  
Start date: **as soon as possible**  
Entry level: **1-3 years**  
Type: **Full time**  
Contract: **Temporary**

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Job ID: **99514**  
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### Contact

**Carlos Ribeiro**  
Recruiter



- Experience with analog modeling languages (Spice, PSpice)
- Previous hardware design experience is valuable
- Good knowledge in Spice circuit simulators (eg: OrCAD, Simetrix, LTSpice, TINA, MicroCap)
- Know-how in Cadence tools and Virtuoso environment would be a plus.
- Experience in Matlab/Simulink/Simscape is of great help
- Passion for mathematical abstraction, numerical models is a plus
- Good command of English Language

## 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; Possibility to work remotely from abroad (EU)

## Why Us

### **Driving decarbonization and digitalization. Together.**

Infineon designs, develops, manufactures, and markets a broad range of semiconductors and semiconductor-based solutions, focusing on key markets in the automotive, industrial, and consumer sectors. Its products range from standard components to special components for digital, analog, and mixed-signal applications to customer-specific solutions together with the appropriate software.

### **We are on a journey to create the best Infineon for everyone.**

This means we embrace diversity and inclusion and welcome everyone for who they are. At Infineon, we offer a working environment characterized by trust, openness, respect and tolerance and are committed to give all applicants and employees equal opportunities. We base our recruiting decisions on the applicant's experience and skills.

We look forward to receiving your resume, even if you do not entirely meet all the requirements of the job posting.

Please let your recruiter know if they need to pay special attention to something in order to enable your participation in the interview process.

[Click here](#) for more information about Diversity & Inclusion at Infineon.

