



## Real Number Modeling Engineer for Automotive Power Applications (f/m/div)\*

### Job description

Do you enjoy being part of a team of experts working on the edge of technology? Diving into the previously unexplored and coming up with pragmatic solutions? Then join us as Real Number Modeling Engineer and become part of a successful and growing team on the leading edge of automotive technology!

As a Real Number Modeling Engineer you will be responsible for the development of behavioral digital descriptions of analog modules targeted for digital simulators. Your deliveries are needed for functional and mixed-signal presilicon verification.

In your new role you will:

- Develop **module level** behavioral models of analog blocks targeted for **digital simulators** for mixed-signal automotive products (eg: Motor Drives, Gate Drivers, Body Bridges)
- Have full responsibility for **model development** and **verification** according to requested specifications
- Define model development and verification plan in sync with existent modeling methodology
- Align with stakeholders on model requirements (eg: accuracy, complexity, feature set, etc)
- Ensure sign-off criteria are met and model documentation is consistent
- Contribute to **defining** and **improving existing real number modeling methodology** in line with market state-of-the-art
- (eg: investigate new tools, simulators, understand modeling language constraints and find workarounds, process automation, etc)

### Profile

You have good analog circuitry understanding which helps you derive an abstract model from an analog IC block/concept in a digital description language (eg: SystemVerilog, VHDL). You have a passion for numerical methods and mathematical models as this greatly increases your efficiency. You are motivated to improve existing methodology and constantly optimize the way functionalities are modeled. 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.

### At a glance

Location: **Bucharest (Romania)**

Job ID: **75383**

Entry level: **1-3 years**

Type: **Full time**

Contract: **Temporary**

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### Contact

**Tiago Novais**

Talent Attraction Manager



You are best equipped for this task if you have:

- A Bachelors' degree in Electronics Engineering, Applied Electronics, Automatic Control or equivalent degree.
- Experience with real number modeling languages (eg: Verilog, SystemVerilog, VHDL)
- Good knowledge in Digital & Mixed-Signal simulators (eg: AMS designer, XA-VCS).
- Know-how in Cadence tools and Virtuoso environment would be a plus.
- Good understanding of analog circuitry
- Passion for applied mathematics, mathematical models, numerical simulations is a big plus
- Scripting languages are nice to have (eg: Python)
- 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

## 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.*

