

# Driving decarbonization and digitalization. Together.



## Senior Staff System Simulation Engineer (f/m/div)

### Job description

The semiconductor business and tomorrow's technologies have always fascinated you? Did you ever wish to help to create cleaner, safer and smarter cars? This role will give you the chance to be part of a brand-new development area in the Bucharest Automotive environment with a focus on system level integration to support our strategic "Product to System" approach. This might be your opportunity to join us as a System Simulation Engineer for Automotive Power Systems.

In your new role you will:

- **Develop, investigate & verify application models** for analog and digital circuitry simulation
- **Create system simulations** for automotive applications to support customer feasibility studies, e.g. for power converters (traction inverter, on-board charger), power distribution, E/E-architecture
- **Build digital twins** of automotive power converter systems, such as DCDC, OBC and traction inverter (for automated code generation)
- **Evaluate** internal and external **customer requirements** and derive feasible solutions
- **Provide technical documentation, support and training** for internal and external customers.

### Profile

You are personally committed to the customer's concerns and you love to generate value with your ideas and solutions. You are ambitious and drive tasks to completion. You have good technical background which enables you to moderate technical discussions focused on reaching team decisions.

You are best equipped for those tasks if you have:

- A degree in **Electrical Engineering, Physics or a related field of study**
- Ideally **3-5 years of practical experience in the development of electronics** and the ability to collect and understand the market requirements on system level
- Good experience on **analog circuit simulations (SPICE-based preferred)** and **electrical-thermal co-simulations**
- Knowledge with **system simulation tools** e.g. **MATLAB/Simulink** for physical system modelling, **control algorithm development**. Automated code generation is a plus
- **Basic SystemC or Verilog-A know-how** and embedded programming would be desired
- Basic skills on the PCB-design **is a plus**

### At a glance

Location:

Job ID: **HRC0835027**

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. Alternatively, you can also scan the QR code with your smartphone:

Job ID: **HRC0835027**  
[www.infineon.com/jobs](http://www.infineon.com/jobs)

### Contact

**Carlos Ribeiro**  
Recruiter



- Fluent English skills

## 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.

