



Staff Specialist Device Simulation (f/m/div)*

Job description

In our fast-changing world we are at the forefront and provide cutting-edge or even future technology for people's needs. Therefore we are looking for an Engineer Device Simulation to think out of the box and strengthen our power device section. If you have fun developing and evaluating innovative ideas and concepts which are technically feasible and create business impact, this is the position for you!

In your new role, you will:

- Enhance the **performance limits of our power devices (SiC Mosfets & Diodes)** under complex boundary conditions
- **Perform process and device simulations** in order to evaluate and refine device concepts
- Assess the outcome of **statistical and electrical device measurements**, e.g. in order to understand failure mechanisms
- **Design new power devices**, examine feasibility, and conduct cost studies
- Successfully **contribute to the working results of development projects & teams**
- **Proactively share knowledge within your project & team**

Profile

You assume responsibility for common goals within your team and have a good sense of current trends by working in a cross disciplinary manner. You master complexity and strive for the best solutions balancing costs and performance without compromising quality.

You are best equipped for those tasks if you have:

- A degree in **Electrical Engineering or Physics plus a PhD in this field** with at least **3 years of practical experience**
- Alternatively gained **5 years of working experience in the field of physics** based numeric simulations
- **Broad knowledge of semiconductor physics** and numerical simulation of semiconductors (TCAD)
- Experience in **power device design**, characterization and/or applications is advantageous
- A proven record of being able to **quickly understand complex physical phenomena**
- Know-How in working with numerical simulation of semiconductors (TCAD), Unix, and programming languages e.g. **Python, C++, Matlab**

At a glance

Location:

Job ID: **350438**

Start date: **Aug 01, 2022**

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: **350438**
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Contact

Katrin Weiß

Talent Attraction Manager



- Strong communication skills
- **Fluent English skills and the desire to learn German**

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.

– Industrial Power Control (IPC) empowers a world of unlimited green energy –
Power semiconductors play a crucial role in increasing efficiency and reducing energy losses along the whole energy conversion chain.
As the global leader in power semiconductors, Infineon **IPC** delivers pioneering products, solutions and services for smart and efficient energy generation, transmission, storage, and use. We strive to make this planet a greener place where sufficient energy is accessible to everyone – wherever and whenever it is needed.
[Click here](#) for more information about working at IPC with interesting employee and management insights and an overview with more #IPCDreamJobs.

** 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.*

