



Device Development and Simulation Expert (f/m /div)*

Job description

In our fast-changing world we are at the forefront and provide cutting-edge or even future technology for the drive train in electric cars. Therefore we are looking for a Device development and Simulation Expert 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 high-voltage power device concepts** under predefined conditions
- Perform **process and device simulations (TCAD)** in order to evaluate and refine device concepts
- Assess the outcomes of **statistical and electrical device measurements, e.g. in order to understand failure mechanisms**
- **Design new device concepts for power devices and examine feasibility**
- Successfully contribute to the **working results of development projects and – teams**
- **Interact across organizations**, sites and expert groups
- **Collect and share knowledge within your projects and your community**

Profile

With your curious personality you love dive deep into details when it comes to simulation results. 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. In the end you are able to communicate with different internal and external customers and transfer Feedback into results.

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)**

At a glance

Location: **Munich (Germany)**
Job ID: **328662**
Start date: **Jan 01, 2022**
Entry level: **3-5 years**
Type: **Full time**
Contract: **Permanent**

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Contact

Katrin Weiß
Talent Attraction Manager



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

