

# Master Thesis – SiC Development

## What you will do

- Conduct experimental research on the performance and reliability of SiC high-power MOSFETs under various electrical stress conditions.
- Explore and develop testing methodologies to assess and analyze Bipolar Degradation (BPD) phenomena in semiconductor devices.
- Perform literature research to support your findings and methodologies.
- Collaborate with a team of researchers and engineers to optimize testing protocols and improve device reliability.

## What you will need

- Student of materials science, electrical engineering, physics, chemistry, or a similar field.
- Basic knowledge in semiconductor theory, particularly related to MOSFET power semiconductors.
- Basic knowledge and skills in soldering, along with hands-on experience with measuring equipment such as oscilloscopes and lab power supplies.
- Good knowledge of English, knowledge of German is beneficial
- Proficient in MS Office

## Conditions

- Full-time fixed-term contract
- Attractive remuneration and a bonus for a very good final thesis
- Location: Hamburg

## Are you interested in this career challenge?

Please understand that for organizational reasons, we can only accept applications submitted online via Workday.

We embrace diversity and aim to provide equal opportunities to all of our applicants – regardless of e.g. gender, sexual identity, nationality, ethnicity, religion or ideology, disability or age.

### Location

Hamburg

### Employment

Fulltime

### Contract duration

Temporary Contract