



## Master Thesis: Electrical characterization of test structures of next generation SiC MOSFETs

### Job description

We are looking for motivated and committed students (f/m/div)\* who are willing to learn new things and work in a innovative company acting on a global scale. An exciting working environment characterizes this internship as well as an attractive salary. Apply now for this internship in Villach and support our team.

In your new role you will work on:

- Advanced **electrical characterization**
- Next generation of **4H-SiC trench MOSFETs**
- **Test structures** to access semiconductor/dielectric properties
- SiC/dielectric **interface defect characterization**
- Characterization of **dielectrics** on **4H-SiC**
- **Tunneling currents, charge trapping**, point defect charging and discharging

### Further Information

Type of employment: Temporary / Full-time (flexible working hours from Monday to Friday between 6 a.m. and 7 p.m.)

Duration: min. 6 months

**This thesis has to be written in cooperation with an university.**

### Profile

You successfully meet the requirements, if you are a motivated and committed student from the field of **Physics, Electrical Engineering** or similar. You are best equipped for this task if you additionally offer

- Interest in **semiconductor physics** or **solid state electronics**
- A passion for working in an **international environment**
- A **self-motivated & proactive working style**

This position is subject to the collective agreement for workers and employees in the electrical and electronics industry (full-time), employment group D for master students (<https://www.feei.at/wp-content/uploads/2022/05/minimum-salaries-white-collar-workers-2022.pdf>).

### At a glance

Location: **Villach (Austria)**

Job ID: **360253**

Start date: **Sep 01, 2022**

Entry level: **0-1 year**

Type: **Full time**

Contract: **Temporary**

Apply to this position online by following the URL and entering the Job ID in our job search:

Job ID: **360253**  
[www.infineon.com/jobs](https://www.infineon.com/jobs)

### Contact

**Nico Steinhauser**

Student Talent Attraction Manager



Please attach the following documents (German or English) to your application:

- Motivation letter
- CV
- Certificate of matriculation at a university
- Transcript of records
- Highest completed educational certificate (Matura certificate for Bachelor students, Bachelor certificate for Master students)
- Reference letter (optional)

## Benefits

- **Villach:** 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 conditions; Home office options; Part-time work possible (also during parental leave); Sabbatical; Child care in Villach & Klagenfurt; On-site social counselling and works doctor; Health promotion programs; On-site canteen; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; Flexible transition into retirement; Performance bonus; 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 **KAI Competence Center for Automotive and Industrial Electronic s** was founded in 2006 and is located in the Villach Technology Park. The focus of our research is the reliability of power semiconductors in automotive and industrial applications.

*\* 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.*

**Infineon Hub - Connect. Create. Challenge.**

The iHub at TU Wien represents an inspiring tech platform, networking area and event location, connecting Infineon Austria with tech experts, science specialists and young professionals.

Check out our upcoming events:

[Infineon iHub](#)

