

Huawei Technologies Duesseldorf GmbH Weilheim Manufacturing Technology Center (WTMC)

Huawei is a leading telecom solutions provider. Through continuous customer-centric innovation, we have established end-to-end advantages in Telecom Network Infrastructure, Application & Software, Professional Services and Devices. Huawei's vision is to enrich people's lives through communication. By leveraging our experience and expertise in the telecom sector, we help bridge the digital divide and give people the opportunity to join the information age, regardless of their geographic origin. Driving future technologies with focus on customer satisfaction is one of our missions.

Something you may be interested in:

The WTMC in **Weilheim / Oberbayern** is a fast growing technology expert center with many opportunities for excellent engineers and researchers. It has the first Advanced Packaging Technology R&D Group in Europe. We are working on high-performance mobile and cellular communication systems as well as on energy network systems, with passion, being part of a multicultural team and growing environment. Being part of the multi-national Advanced Packaging Technology and Test Team you will significantly contribute to the expert team's R&D excellence.

For our team we are looking for highly motivated talented candidates in **evaluation of electronic and thermal performance of advanced power modules** as

Internship Student / M.Sc. Thesis

Apply for a position if you are a young engineer talent with excellent inter-disciplinary skill sets in areas like:

- Power electronic devices, circuits, modules in the area of up to 100 kW, several hundred Volt
- Electrical characterization of power modules such as transistor characteristics
- Analysis of switching behavior of power devices (double pulse test)
- Power module packaging technology

This position can also give you the chance to grow into a position for MSc Thesis, or further job opportunities in our growing team.

Role & Responsibilities

Be responsible for analytical studies within the ongoing state-of-the-art power module characterization project:

- Static characterization of power modules with a modern curve tracer
- Support the set-up of experiments to measure the thermal performance of water-cooled power modules
- Perform the experiments: power up the modules and analyze the thermal performance dependency on different attachment techniques to the water cooler
- Dynamic characterization of power modules with double pulse test method
- Based on results and available time, you should support build up a new double pulse test bench at our Weilheim site
- The job requires occasional travel to our Nuremberg Research Center

This profile will help you to perform the role:

- Education background:
 - 3rd year (or older) Bachelor or Master degree (or equivalent) in Physics, Electrical Engineering (ideally Power Electronics), or equivalent at University/ University of Applied Science Degree with excellent results.
 - Previous internships and international experience in similar fields and roles, e.g. in power electronic topics (characterization, circuit design, simulation, topology, modelling, switching methods, current commutation), backend assembly, electronic package development, fresh university graduates with relevant experience are also welcome.
- Work experience:
 - Ideally 1st experience in **high power electronics** with experience in hands-on electrical testing and characterization
 - Familiar with typical **power electronic measurement tools** such as curve tracer, high current measurement (Rogowski coil), and capture switching behavior of power transistors with oscilloscope.
 - Basic understanding of **construction of power modules** with one or several half bridges
- Basic skills and mindset:
 - Fluent in English (written and spoken) is obligatory; Chinese or German is a plus.
 - Well organized, attention to detail and ability to meet deadlines.
 - Working dedicated, self-reliant and target- as well as team-oriented

Minimum contract time is 6 months with the possibility to extend for up to 12 months. Based on performance, working students can continue beyond 12 months, and could eventually do there thesis or even become a regular employee.

Work Location: Weilheim Manufacturing Technology Center, 82362 Weilheim i. Ob.
(ca. 50 km south of Munich).

If you are enthusiastic and interested to progress with your excellent skill set together with us please **send your application** in ENGLISH to: Mr. Menge or Ms. Schäfer through recruitingwmtc@huawei.com, kindly be aware that otherwise your application cannot be processed.

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