



The Research Center Allgäu (Forschungszentrum Allgäu - FZA) is looking for

Research Assistant (f/m/d) for the development of power semiconductor modules

In the Laboratory for Electronics Integration at Kempten University of Applied Sciences, we develop power semiconductor modules, which are a key component for efficient energy conversion in electromobility and renewable energies. Through innovative solutions for assembly and connection technology, we improve energy efficiency, power density and reliability and thus contribute to the energy and mobility transition.

Your tasks

- Design and dimensioning of power semiconductor modules
- Multi-domain simulation (thermal, mechanical, electrical) and optimization
- Development and optimization of manufacturing processes and production of demonstrators in the laboratory
- Electrical and thermal testing of power semiconductor modules
- Planning, implementation and evaluation of reliability tests
- Supervision of student projects and theses
- Publication of work results at scientific conferences and in journals
- Project management and communication with participating project partners in Germany and abroad

Your profile

- Successfully completed studies in mechanical engineering, mechatronics, electrical engineering, microsystems engineering, (technical) physics or related subjects at least at Master's level
- Interest in the electrification of the transportation and energy sectors
- Very good knowledge in the development of electronic circuit boards with CAD, ideally Eagle/Fusion360
- Knowledge in the use of FEM simulation tools, ideally ANSYS
- Knowledge of electronics production or assembly and connection technology is an advantage
- Enjoy experimental work in the laboratory
- Confident handling of Microsoft Word, Excel, PowerPoint
- Team player, motivated, curious, safety-conscious, flexible

We offer

- a full-time employment contract limited to three years
- the opportunity for scientific qualification (doctorate, additional scientific achievements) with individual supervision
- the opportunity to work independently on an application-oriented research topic in a European joint project with partners from industry and research
- Payment according to the collective agreement of the federal states (TV-L) in pay group 13
- High flexibility in terms of time and the possibility of mobile working
- a motivating and international working environment in a well-equipped laboratory
- Company health management and comprehensive training opportunities
- a modern workplace in the middle of the beautiful Allgäu region

The position is suitable for people with severe disabilities, who will be given preference if their suitability, qualifications and professional performance are otherwise essentially equal.

Kempen University of Applied Sciences is committed to equality, diversity and the compatibility of career and family. It strives to increase the proportion of women in research and teaching, which is why they are expressly invited to apply.

If you have any technical questions, please contact Prof. Dr. Huesgen by email at till.huesgen@hs-kempten.de.

Please submit your application documents **exclusively** via our [application portal](#) by **June 2, 24**. Thank you very much!

