

WISSENSCHAFT UND WIRTSCHAFT IN  
EINEM JOB GEHT NICHT.

**DOCH.**

Finden Sie es heraus bei Fraunhofer.

IS RENEWABLE ENERGY YOUR SPECIALTY? FRAUNHOFER HAS AN EXCITING JOB AVAILABLE FOR YOU, STARTING IMMEDIATELY IN THE AREA OF PLANT ENGINEERING AND DISTRIBUTION NETWORKS, AS A

---

## DEVELOPMENT ENGINEER POWER ELECTRONICS

---

The Fraunhofer IEE in Kassel performs research in the areas of energy management and energy system technology. We develop solutions for the technical and economic challenges of transforming our energy systems. Our areas of competences are: energy management and system design, energy meteorology and renewable resources, energy informatics, energy process technology, electricity grids, equipment and plant engineering. Our approximately 350 scientists, students, and technical staff help us generate returns of about 22 million euros a year.

### What we expect from you

You will work as a research assistant to help develop and design power converters and their components for electric vehicles, battery power converters and/or stand-alone inverters, as well as for use in wind farms and photovoltaic applications

- Working with new power semiconductors (SiC, GaN) and magnetic components
- Designing, modeling, simulating and constructing fast-operating power converters

You should have a college degree (technical university/technical college, TU/TH) in the field of electrical engineering or excellent final grades from a technical college, as well as prior knowledge about designing and realizing circuits for power electronics and their electronic accessories. Knowledge about controlling/operating the circuits using microcontrollers or DSP/FPGAs is an advantage.

### **What you can expect from us**

You will find an attractive working environment for performing independent, responsibility-oriented work with a committed team, as well as further qualification and personal development opportunities through ambitious R&D projects and national and international partnerships. There is also the opportunity to earn your doctorate and to teach at the University of Kassel.

Hiring, compensation and social benefit decisions are based on the collective agreement for the public sector (TVöD). In addition, Fraunhofer may grant variable performance-based and success-based compensation components. This position is initially limited to two years. We hope it will become a long-term collaboration. Weekly working hours are 39 hours. Severely disabled persons will be given hiring preference in cases of equal qualification. The Fraunhofer Society emphasizes equal professional treatment for men and women.

Fraunhofer is Europe's largest application-oriented research organization. Our research efforts are geared entirely to people's needs: health, security, communication, energy and the environment. As a result, the work undertaken by our researchers and developers has a significant impact on people's lives. We are creative. We shape technology. We design products. We improve methods and techniques. We open up new vistas.

**If you have any questions about this position, please contact**

**Dr. Marco Jung**

**Tel.: +49 (0)561 7294-112**

Fraunhofer-Institut für Energiewirtschaft und Energiesystemtechnik IEE  
Königstor 59, 34119 Kassel

Please submit your complete, informative application materials online only.

<http://www.iee.fraunhofer.de/>

Job Reference: **IEE-2019-88**