



Littelfuse®

Senior R&D Engineer (f/m/d) Diode & Thyristor Lampertheim

In the position as Senior R&D Engineer (f/m/d) Diode & Thyristor you will report directly to our Chip Design and Development Manager at our plant in Lampertheim. You will be a part of the global Bipolar Power Semiconductor development team. The main task in this position is to research and develop in the field of thyristors and rectifier diodes for medium power (1kV to 3 kV).

About the Position:

- Simulation and design of power semiconductor components such as thyristors and rectifier diodes for medium power (1kV to 3kV) for maximum efficiency and reliability in applications such as converters or charging stations
- Conceptual design, characterization, debugging and preparation of new, innovative power semiconductor chips to market launch
- Development of the manufacturing processes in the wafer FAB directly on site and also worldwide, in cooperation with the teams for process and product development
- Further development of tools for design automation
- Direct cooperation with production and development at the Lampertheim site with more than 100 years of history in the manufacture of rectifier diodes

About you:

- University degree in semiconductor, electrical engineering, chemistry, physics, materials science or a similar field, preferably PhD/PhD
- 5-10 Years of professional experience in the semiconductor industry
- Professional experience in simulating and designing of power semiconductor components
- Experience in data analysis
- Experience with TCAD (Silvaco or Synopsys) or other FEM methods, as well as MS Office
- Knowledge of common programming languages
- Fluent language skills in German and English
- Enthusiasm about actively improving the energy efficiency of our power grids and consumers

Littelfuse strives to empower associate growth and development in a culture of ongoing collaboration and respect for diverse global perspectives and expertise. Our Core Values – Customer Focus, Integrity, Innovation, Teamwork and Results Driven – supports us on our mission to improve the safety, reliability, efficiency, and performance of our customers' products and systems.

We are an equal opportunity employer that takes pride in giving every associate the means and courage to make a difference – everywhere, every day.

We offer a competitive salary package and a variety of benefits, including work from home, flexible working hours as well as development opportunities like internal Lean Six Sigma Certification.

If you are interested in this position, please reach out to Diandra Roth (droth@littelfuse.com)