



Littelfuse®

R&D Engineer (f/m/d) IGBT Lampertheim

Working in the High Power IGBT R&D team, you will be responsible for the development of High Voltage silicon power devices for our High Power IGBT Module portfolio.

About the Position:

- Design and technology development of the next generation high voltage silicon power devices
- Coordinate and collaborate with Littelfuse's global technical community
- Generate new ideas of device structures and manufacturing process, evaluate them by analysis of design of the experiments
- Perform TCAD process, device simulations and layout design
- Work with wafer foundry partners to reach production maturity of the new designs and processes
- Work with the assembly team to ensure long-term reliability in different package formats, requiring chip- and package-level failure analyses and diagnostics
- Other duties that may arise in the course of employment

About you:

- Master's degree in power electronics, device physics or similar field (PhD would be a plus)
- Experience in design of power semiconductors, preferably IGBTs and/or MOSFETs
- First-hand knowledge and experience of IGBT or MOSFET processes and device layout
- Experience in TCAD simulations, testing and characterization, semiconductor packaging would be a plus
- Lean Six Sigma approach and Statistic data analysis expertise are considered a plus
- Fluent English and ability to work independently in a cross-cultural working environment.
- Very good analytical and numerical skills

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)