

Werkstudent Power Electronics (m/f/d)

Location: Erlangen, Germany

About Fluence

Fluence, a Siemens and AES company, is the leading global energy storage technology solutions and services company that combines the agility of a fast-growing technology company with the expertise, vision, and financial backing of two industry powerhouses. Building on the pioneering work of AES Energy Storage and Siemens energy storage, Fluence's goal is to create a more sustainable future by transforming the way we power our world. The company offers proven energy storage technology solutions designed to address the diverse needs and challenges of customers in a rapidly transforming energy landscape, providing design, delivery and integration in over 160 countries. Fluence works closely with customers throughout their journey and provides advisory, financing, and project lifecycle services.

Job Description

Do you want to work on transforming the global electricity industry? Does commercializing clean energy technologies get you excited? Do you believe that energy storage is the key to a clean energy future? Do you want to work at a fast-paced entrepreneurial startup with the backing of two industry powerhouses, AES and Siemens?

You will be part of the Product Lifecycle Management Team based in Erlangen. Minimum duration of this internship is 6 months and can be extended up to one year.

Responsibilities

- Support in theoretical analysis of power converter topologies with mathematical calculation and software simulation aimed for performance evaluation, component benchmarking, quality and safety assessments
- Support in the development of graphical user interfaces for power converter analysis
- Support in evaluation and benchmarking of novel converter concepts
- Literature survey and summarization of technical documents
- Documentation of development activities in form of technical report and/or oral presentation

Required Qualifications

- Essential
 - Registered in a reputed European University to undertake Master of Science (MSc) or equivalent degree program in Power Electronics, Power Engineering or similar relevant Electrical & Electronics field
 - Good theoretical understanding of power electronic converter principles and semiconductor devices
 - Can do attitude, eager to learn new things and ready to think outside the box
 - Passed examination for one of related lectures, e.g. Power Electronics, Semiconductor device, Electrical Drives, etc., are a must (good grades preferred)
- Preferred
 - Good theoretical understanding of Battery Energy Storage Systems and Distributed Energy Systems
 - Good working knowledge in one or some of these software tools:
 - Circuit simulation Matlab & Simulink, PLECS, Simetrix, etc.
 - Programming language C, C++, Python

This is how you get in contact with us - simply and directly

fluenceenergy.com

Please send us your complete application documents including language skills, education certificates, work references (if available) and cover letter at careersgermany@fluenceenergy.com.

Only complete application documents can be considered.

Fluence Energy **IS AN EQUAL OPPORTUNITY EMPLOYER** and fully subscribes to the principles of Equal Employment Opportunity, to ensure that all applicants and employees are considered for hire, promotion, and job status without regard to race, color, religion, sex, national origin, age, disability, sexual orientation, marital or familial status.