

# DARMSTADT SOFTWARE ENGINEER C++, SI / EMC / EMI CIRCUIT SIMULATION [M/F]



THE **3DEXPERIENCE** COMPANY:  
WITH FULL SPEED INTO  
A NEW DIMENSION

## WHAT WILL YOUR ROLE BE

- Developing, specifying and supporting SI/EMC/EMI solutions in our Circuit Simulation environment, as part of the 3DEXPERIENCE platform
- Working with innovative software developers and application engineers
- Investigating customer examples, understanding their key design and suggest appropriate simulation setups
- Connecting with other teams, collaborating with people involved in circuit simulation, result handling and postprocessing, locally as well as world wide across the company
- Contributing to software quality and continuous integration pipeline

## THE CHALLENGES AHEAD

- Help forming a competitive simulation environment with focus on Signal Integrity simulations for high speed data links and EMC / EMI effects in Power electronics applications
- Transform SI concepts like IBIS, Eye-Diagramm and BER into software solutions
- Get used to the development tools, meet software quality measures

## YOUR KEY SUCCESS FACTORS

- Engineering Degree in Electrical Engineering or similar
- A PhD degree is welcome

- Experience in high speed design or modeling (e.g. digital bus systems, signal processing, switch mode power converter, power electronics, signal integrity, EMI / EMC aspects)
- Strong skills in C++ and object oriented programming
- Knowledge in Python for internal process automation
- Work experience with common EDA tools for PCB and circuit design
- Fluent English and German speaking

## BENEFITS

We work in a highly motivated team in a collegiate atmosphere, offer flexible working hours in a modern office environment combined with an attractive performance related salary (incl. bonus scheme). Through a wide range of social benefits (e.g. canteen, free beverages, parking garage, emergency childcare) we provide you a working environment in which you can fully develop your capabilities.

## CONTACT US

Please submit your application (including a cover letter, CV, university transcripts and written references) online:

<https://www.cst.com/company/careers>

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Our **3DEXPERIENCE®** platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

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