

»Maybe tomorrow housework becomes a game.«

**Christina**

Supply Chain Qualification



## Tomorrow is our home.

Start swiftly and grow fast at BSH Home Appliances Group: As a leading manufacturer of home appliances and solutions, we move things forward to make people's lives easier. With our global brands Bosch, Siemens, Gaggenau and Neff as well as our local brands, there is a world of opportunities for you to discover. We encourage people to develop their potential and never stop learning. After all, we believe that great work is the result of doing what you love. Join us now and give your career a home.

## Thesis Research & Development EMC Simulation Inverter/Motors (m/f/d)

BSH Hausgeräte GmbH | Job-ID: 76043732 | Full time / Part time | from May 2026  
Regensburg

### YOUR RESPONSIBILITIES

Are you well-versed in theory and now looking for practical experience in a dynamic company? Then use your talent and expertise to help us with the following tasks

- / Creation of a Master Thesis for EMC-Oriented optimization of Inverter and Motor Drive Systems for reduction of ferrites
- / Develop system-level models of inverter and motor drive architectures for EMC simulation and analysis
- / Perform EMI analysis to identify dominant noise sources and assess conducted and radiated emission behavior
- / Develop optimization and control strategies and model ferrite behavior to minimize ferrite usage without degrading performance
- / Validate simulation results with measurements where available, document methods, and prepare the master thesis and presentations

### YOUR BENEFITS

- / Company-related processing of current topics
- / Personal contact person
- / Appreciative working atmosphere

### YOUR PROFILE

- / Be enrolled in a Master's program in Electrical Engineering, Power Electronics, Electromagnetics, or a related field
- / Advantageous: Knowledge of simulation tools (e.g., MATLAB/Simulink, PLECS, SPICE, CST/Ansys) and familiar with EMI standards
- / Demonstrate independence, curiosity, strong analytical skills, and the ability to collaborate across teams as well as a high motivation
- / Be proficient in MS Office
- / Fluent in German and English

### FURTHER INFORMATION

Please visit [bsh-group.com/career](https://bsh-group.com/career). We would love to welcome you in our team!

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## BSH IS AN EQUAL OPPORTUNITY EMPLOYER

At BSH, diversity and inclusion are core values that shape our corporate culture. We appreciate everyone's uniqueness and see the diversity of our employees as key to our success. Regardless of gender, origin, religion, sexual orientation, disability, or age, we wholeheartedly welcome every single application.

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Home appliances under the brands:

