



VIRTUAL VEHICLE is a leading international R&D center for the automotive and rail industries. The center focuses on advanced virtualization of vehicle development. This linking of numerical simulations and hardware testing leads to a powerful HW-SW system design.

## Master Thesis

### “3D Multi-scale Simulation of Laser Structured Battery Electrodes”

Ref.Nr. E\_109

Diploma Work

#### TASKS

- Study of existing battery models and tools
- Setup of parametrizable 2D/3D geometries
- Comparison of different battery models

#### PROFILE

- Ongoing technical study in physics or mathematics
- Experience in C++ and/or Python
- Curiosity in in complex Science problems
- Some knowledge of PDE's of advantage
- Profound Knowledge of Finite-Element-Method
- Structured way of working

#### OFFER

- Collaboration and contribution in an engaged, dynamic team
- Interesting work in an international research center
- **Paid** Thesis
- Mentoring program for new employees'
- Diverse sports and health activities regularly
- Corporate Events

**For technical questions, please contact**

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#### **APPLY NOW and JOIN OUR TEAM**

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