



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. About 300 people are now employed at our site in Graz - their expertise enables the efficient development of affordable, safe and environmentally friendly vehicles.

## Bachelor-/Master Thesis

### "Detection of injuries with long-term consequences in road accidents using human models"

Ref.Nr. R\_021

Bachelor-/Master Thesis

As an alternative to conventional crash test dummies, so-called human body models are increasingly becoming the focus of developments in the field of vehicle safety. These FE models have an anatomically detailed structure and therefore enable a more comprehensive evaluation of injury mechanisms for a more diverse group of vehicle occupants. In an ongoing international research project, methods are to be developed using FE human models to predict the probability of injuries with long-term consequences. Bachelor's and Master's theses are possible from this project, depending on interest.

### Your Tasks

- Familiarisation with the topic / literature research.
- Carrying out FE simulations with human models.
- Interpretation of results / documentation.

### What we expect from you

- Technical studies.
- Interest in modelling and simulation.



### What we offer

- Introduction to the tools for FE simulation.
- Work on a current international research project.
- Support from a dedicated team.
- Interesting work in an internationally active research center.
- Paid diploma thesis.
- Mentoring program for new employees'.
- Diverse sports and health activities regularly.
- Corporate Events.

### For technical questions please contact:

Christioph Klein  
+43-(0)316-873-9624

## **Data Protection Notice:**

Virtual Vehicle Research GmbH processes your application to manage your application. For further information please see our [Data Protection Notice](#).

If you consent that your submitted data is also stored in our talent pool for up to 1 year after the last contact with you, please let us know by E-mail. You may withdraw your consent at any time.

## **[APPLY NOW and JOIN OUR TEAM](#)**

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Kontakt: Katharina Fink | +43 316 873 9016 | Inffeldgasse 21a, 8010 Graz |  
[www.v2c2.at](http://www.v2c2.at)