



virtual  vehicle

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.

## Master Thesis

### “Automated evaluation of functions based on SysML2.0”

Ref.Nr. E\_133

Master Thesis

Function-orientated and model-based development methods are increasingly being used to handle the ever-increasing complexity of vehicle development. Overall system analyses already require the integration of different sub-models at an abstract level, whereby automated processing promises considerable increases in efficiency in analysis, model exchange, traceability, etc.

### Your Tasks

- Evaluation of the motivation of SysML v2.0 compared to SysML1.x incl. roadmap and communities.
- Possibilities for machine processing of SysML2.0 models (I/O, automation services).
- Development of method(s) for the evaluation of function specifications.
- Prototypical realisation of application examples.
- Presentation of advantages and limitations.

### What we expect from you

- Technical degree (computer science, systems engineering, etc.).
- Experience in the field of systems engineering.
- Experience in using UML or SysML for system specification and modelling.
- Experience in programming for prototypical implementation (C/C++, Java, Python etc.).

### What we 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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### 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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