

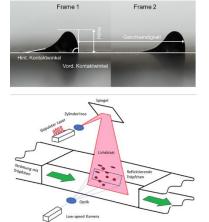
VIRTUAL VEHICLE is a leading international R&D center for the automotive and rail industries. The center focuses on advanced virtualization of vehicle development. This linking of numerical simulations and hardware testing leads to a powerful HW-SW system design. About 300 people are now employed at our site in Graz - their expertise enables the efficient development of affordable, safe and environmentally friendly vehicles.

Bachelor-/Master Thesis

"Water and contamination path in the cathode path of a fuel cell"

Ref.Nr. B_072

Bachelor-/Master Thesis



Fuel cell-powered vehicles will play an important role in the decarbonisation of the vehicle fleet as, in addition to their zero emissions, high efficiency, long range and reduced noise levels, they have the further advantage that they can also be refuelled very quickly. This means that fuel cells can be used to power heavy commercial vehicles, agricultural machinery and construction, mining and fire-fighting vehicles. In these applications, in addition to long operating times, high ambient temperatures, high concentrations of harmful gases and dust, vibrations and inclined positions are to be expected.

Water management plays a decisive role in the operation of the fuel cell. The fuel cell must be kept at the optimum humidity level and the water must be removed without damaging the auxiliary units.

Your Tasks

- Measurement of humidity, droplets and wall film in the cathode path.
 - Setup and calibration.
 - Carrying out measurements.
- Simulation of water transport.
 - Carrying out and analysing calibration measurements.
 - Construction of a simulation model for water transport and shear flow.

What we expect from you

Enjoy solving difficult simulation and measurement tasks.

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: Bernhard Lechner +43-(0)316-873-9027

Data Protection Notice

Virtual Vehicle Research GmbH processes your application to manage your application. For further information please see our <u>Data Protection Notice</u>. 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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