



VIRTUAL VEHICLE develops solutions for the mobility of the future - and offers you the chance to already be part of it during your studies.

Siemens Healthineers, headquartered in Kemnath, Germany, is a manufacturer of medical technology and encompasses Siemens AG's activities in this field. Its development and sales activities focus on products for diagnostic imaging and therapy, products for in vitro diagnostics, as well as services in medical technology.

Master's Thesis in Health Technology

Department V_01

Master's Thesis

As part of a long-term research collaboration, a master's thesis with the following focus areas is being offered:

- Development and implementation of a methodology for determining the material parameters of electrical wires under tensile, bending and torsional load.

The exact content and specific tasks will be jointly defined and agreed upon in case of interest.

The position can either be carried out as part of an agreement regarding a master's thesis with a one-time expense allowance at the research center in Graz, or within the framework of a fixed-term employment at Siemens Healthineers in Kemnath.

Potential Tasks

- Literature research in the topics of material testing and parameterisation of electric wires
- Design and implementation of a prototypical testbed
- Development of a methodology for determining material parameters of electric wires
- Planning and conducting experimental series for material characterisation with a focus on nonlinearities, anisotropy, asymmetries etc.
- Independent analysis and documentation of test results

What we expect from you

- Current studies (technical university or university of applied sciences) in the field of mechanical engineering, automotive engineering, material sciences, physics or a related field
- Experience with CAD and data analysis as well as in working with measurement equipment is a plus
- Interest in planning and executing experimental tests and in material sciences
- Self-organized, structured and detail-oriented approach to work

What we offer

- Collaboration and contribution in an engaged, dynamic team
- Interesting work in an international research center
- Paid thesis at Graz or fixed-term employment at Siemens Healthineers in Kemnath

For technical questions please contact:

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APPLY NOW and JOIN OUR TEAM

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.

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