



DIPLOMA THESIS OR PROJECT WORK

Railway Dynamics

Working in railway dynamics offers great opportunities for students or graduates as many companies of railway industry have production and development units in Austria, in particular in Vienna, Graz, and Linz. Needs for a transformation of personal mobility are a strong impetus for new research topics related to a long-established way of transport. The topics offered at our research division, Technische Dynamik und Fahrzeugdynamik, involve the

- full train, typically tram or metro
- a subsystem, e.g. braking system or vehicle body control
- the development of new methods, e.g. related to frictional contact, electro-magnetics, non-linear vibrations and stability, ride comfort, curving behaviour
- modelling and simulation
- future data-based methods, e.g. predictive maintenance

If you are interested in a topic on railway dynamics for a diploma thesis or project work, please contact us by sending a short email, see contact below. Together we will find out about your preferences, such as working with a company or joining an internal focus, enhancing your skills in modelling in simulation, focussing a topic on design, optimisation, or control, or applying new data-driven methods.

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