

# Job offer

AC2T research GmbH



## Master's Thesis (m/f/d) Development of a Digital Prototype from a Two-Disc Tribometer

As the **Austrian Competence Centre for Tribology** ([www.ac2t.at](http://www.ac2t.at)), we have been developing technical-scientific solutions around the topics of **friction, wear and lubricant** application for about 20 years.

Technologies and methods in the field of vibration technology and machine dynamics should comprehensively supplement our research activities in the future. The focus is on the further development and optimization of vibration measurement and evaluation methods.

### ACTIVITIES

Tribometers are used to investigate the friction and wear properties of model systems, such as two discs rubbing against each other.

The objective of this master's thesis is to develop a digital prototype of a two-disc tribometer using appropriate modeling methods such as Multibody Simulation or Finite Element Analysis. The model will be developed and calibrated based on existing measurement results. Subsequently, it will be demonstrated that the simulation model is capable of reproducing various experimental setups.

The main task is to develop a simulation model that accurately represents the dynamic behavior of the tribometer system, enabling the analysis of the impact of system dynamics on tribological results.

### REQUIREMENTS

- Excellent knowledge of mechanics
- Strong interest in vibration technology
- Keen interest in technical and scientific work

### OUR OFFER

- Full-time (40 hours per week), temporary for the duration of the Master's thesis project at the Wiener Neustadt location, Civitas Nova, TFZ.
- Gross minimum salary based on full-time employment: €1,400 per month. Any potential overpayment is dependent on relevant professional experience and/or qualifications.

## Contact

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