

Job offer

AC2T research GmbH



Master's Thesis (m/f/d)

Determination of modal parameters of a two-disc tribometer for the development of a digital prototype.

As the **Austrian Competence Centre for Tribology** (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.

In order to adequately model these systems, the dynamic parameters of the test rig, which describe the system's inherent dynamics, need to be determined. This requires measurements using state-of-the-art measurement systems (e.g., 3D laser Doppler vibrometers) and presenting the results graphically.

The objective of this master's thesis is to identify the modal parameters of a two-disc tribometer through experimental and numerical modal analysis and to verify and validate the 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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