

Job offer

AC2T research GmbH



Bachelor thesis: High-resolution, online and in situ documentation of the wear track of a pin-on-disc tribotest using a camera

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.

To build up and expand our team, we are looking for student employees who we would like to offer an interesting topic for their Bachelor thesis.

The aim is to record the wear track of a pin-on-disc tribotest online and in-situ using a camera system at defined time intervals without influencing the test (e.g. speed reduction is not permitted).

ACTIVITIES

- Control/synchronization of the camera and flash system (e.g. using LabView)
- Development of a triggering strategy → Camera image captures only a small part of the wear track
- Automatic stitching of single images
- Development of image correction strategies (if necessary)
- Mounting of the camera system on the tribometer
- Execution of validation tests

REQUIREMENTS

- Running Bachelor program in the field of mechatronics, mechanical engineering, automation technology or similar.
- Personal initiative and independence
- Ability to work in a team, show initiative, be independent, have the ability to discuss issues, work in a customer-oriented manner and have manual dexterity
- German spoken and written, knowledge of English is an advantage.

OUR OFFER

- Temporary position with chance for permanent position after evaluation of BSc thesis.
- Start date: as soon as possible
- Period of employment: 3 months / full time
- Place of employment: Technology and Research Centre Wiener Neustadt
- Professional supervision and support by competent staff

Contact

jobs@ac2t.at

