



RECENDT is a non-university, application-oriented research institution in the Upper Austrian Innovation Network and stands for the research and development of non-contact optical high-tech solutions in the fields of material characterization, non-destructive material testing and biomedical applications. In interdisciplinary teams, we have been developing the latest device technologies for industry and research for over ten years - together with scientific partners and companies.

To strengthen our team with commitment, we are looking for a



**Master student (m/f/d)**  
**Department of Mechatronics / Physics – Electrical engineering**

Place of work Linz/ employment: Master thesis (6 months)

As a Master's student, you will be part of our laser ultrasonics team, researching and improving the investigation of microstructural changes in metal samples during thermal cycling in a dilatometer. You will develop and verify new, innovative approaches for the inductive heating of samples. Together with the JKU Institute for Engineering Materials/Metals and Alloys, the work will be summarized as a Master's thesis.

**Your tasks:**

- Simulation of the inductive heating of sheet metal samples in a dilatometer (using FEM software CENOS)
- Development of coil prototypes based on the simulated designs
- Testing and optimization of the coil
- Test measurements with laser ultrasound on metal samples using the new coils (observation of recrystallization, grain growth and phase transformations)
- Writing a Master's thesis

**Your profile:**

- Bachelor's degree in technical studies at a university or university of applied sciences (specializing in physics, mechatronics or equivalent)
- Interest in measurement technology and data analysis
- Experience with CAD advantageous
- Programming skills (Matlab, Python, C++ etc.)

## We offer:

- Collaboration in a research institution with a high national and international reputation
- Varied and independent work at the interface between science and business
- Working on exciting technical issues
- Pleasant, informal working atmosphere in a university environment on the JKU campus
- Gross monthly salary of EUR 1,000 based on 30 hours per week

## Further benefits:



Flexible working time



Fruit basket



Telework



Training and education opportunities



Organic cafeteria



Employee events



Free coffee and beverages

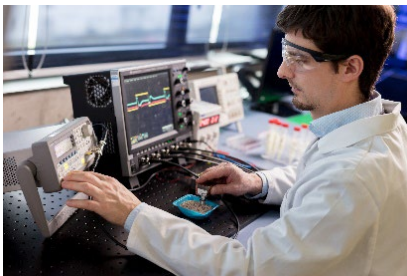


Weekly running group



Cheap parking spaces and jobticket

You can find out everything else from your contact person Mr. Bernhard Reitingner on +43(0)732/2468-4630 or by e-mail: [bernhard.reitingner@recendt.at](mailto:bernhard.reitingner@recendt.at).



RECENDT supports an active strengthening of the proportion of women in research and therefore expressly encourages qualified women to apply. Applicants with disabilities will be given special consideration if they are suitable.

**Would you like to take on this challenging, exciting and responsible role and are you interested in advancing your career? Then we look forward to receiving your application:**

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