
Master Thesis

Exploring the use of acoustic Zero-Group-Velocity modes for detecting cracks and delamination

Tasks:

- Get involved with advanced materials characterization
- Work within an interdisciplinary project directly connected to the industry
- Development of efficient laser ultrasound measurement strategies
- Testing advanced data analysis methods to improve failure prediction

Requirements:

- Education: experimental physics, technical engineering
- Hard skills: background in physics, material science
- Basic programming skills: Python, MATLAB, LabView
- Soft skills: Initiative, structured working

Additional information:

Start of work: possible from April 2023
Period: 1 Year
Salary: about 400€ per month
Supervisor: Mag. Dr. Robert Nuster, Institute of Physics, University of Graz
Co-supervisor: Ao. Prof. Dr. Günther Paltauf, Institute of Physics, University of Graz

If you are interested to work within a project at the edge of laser acoustic and optical microscopy with modern signal processing methods, material science, and industry, do not hesitate to contact me (+43 316 380 5195, ro.nuster@uni-graz.at) or just walk by!