

Development of a surface acoustic wave (SAW) detection device with data analysis toolbox

Tasks:

- Get involved with advanced materials characterization
- Work within an interdisciplinary project directly connected to the industry
- Development of a compact transportable surface acoustic wave detection setup
- Development of a Matlab toolbox for surface acoustic wave analysis

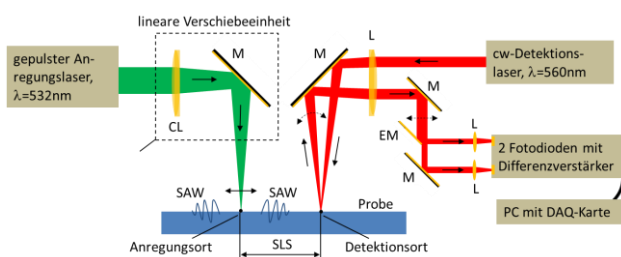
Requirements:

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

Additional information:

Start of work:	March 2018
Period:	1 Year
Salary:	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

Please send your complete application documents by Email to: ro.nuster@uni-graz.at



Left: Schematic of beam deflection technique for SAW detection.

Bottom: Typical measured temporal signals for five different propagation distances (a) and (b). Time distance (t-d) diagram used for the estimation of the SAW-speed (c).

