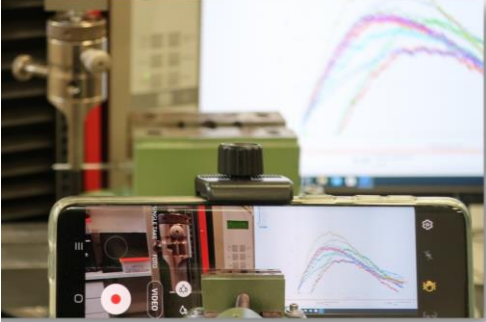


Internship Program at Osnabrück University of Applied Sciences

Description of lab or research project

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|---|---|
|  | Lab for Plastics Testing and Polymer Physics |
| Head of the laboratory | Prof. Dr. Markus Susoff Faculty of Engineering and Computer Science Albrechtstr. 30, 49076 Osnabrück E-Mail: m.susoff@hs-osnabrueck.de Phone.: +49 541 969 2940 |
| Research activities | Structure-property relationships of elastomers |
| Abstract | Elastomeric plastics like rubber elastomers, thermoplastic elastomers and foamed elastomers are unique materials due to their viscoelastic nature and can be found across all kinds of industries from automotive, sports and leisure and medical device industry, e.g. Understanding of their viscoelastic behaviour and correlation to the underlying micro structure is crucial for the optimization of tailored elastomers for industrial applications. |
| Tasks | <ul style="list-style-type: none">- Mechanical and thermal characterization of elastomers by tensile testing, dynamic mechanical analysis, temperature scanning stress relaxation measurements- Morphological characterization by means of AFM and SEM (with professional assistance)- Rheological experiments |
| Requirements | First experiences in polymer sciences is needed. Lab skills would be desirable. |
| Language Skills | English: fluent German: basic knowledge useful, but not required |

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| Duration and time period | 3 – 6 months within either the summer semester (March – August) or the winter semester (September – February) specific dates and duration to be agreed upon |
| Further information | |