Karlsruhe Institute of Technology

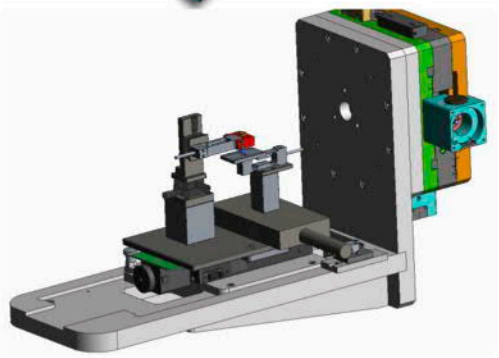
Institut für Angewandte Materialien

Bachelor / Master Thesis

Microstructure evaluation through in-situ X-Ray diffraction

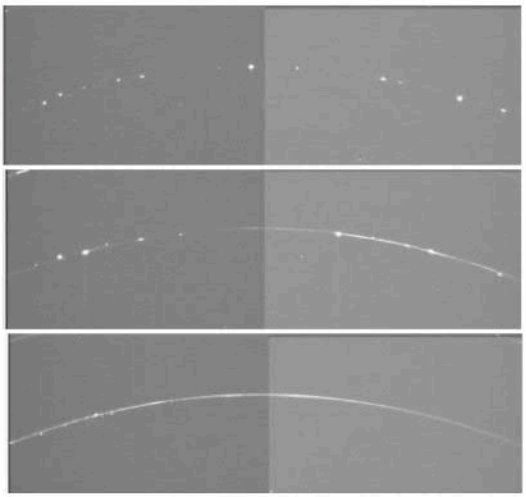
Background:

Understanding of microstructural change under cyclic tribological loading will greatly help to tailor the materials surface to reduce friction and wear. Application can be widely found in moving engineering components.



Project description:

- Developing program to analyze in-situ acquired diffraction patterns during tribological loading
- Analyzing microstructural evolution after different cycles of loading



Qualification:

- Interest in programming advanced material analysis methods
- Independence, reliability

We offer:

- Intensive support and supervision
- Cutting-edge topic
- Modern processing methods

Interested?

Please contact: Dr. Christian Greiner, IAM-CMS, greiner@kit.edu,
T: 0721/608-26407