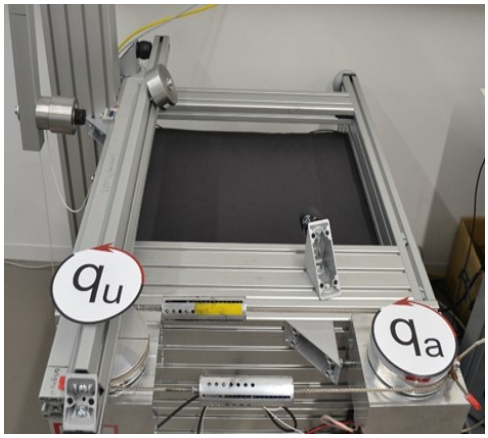
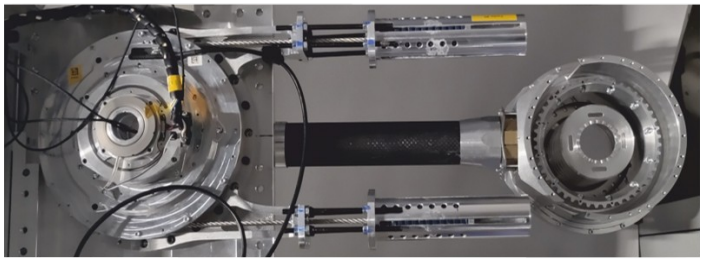
Internship/ Working Student: Implementation of Control Concepts for Elastic Robot Joints and Evaluation of their Positioning Accuracy





As part of this position, you will have the opportunity to work at the Institute of Robotics and Mechatronics of the German Aerospace Center (DLR).
One focus of the institute is the design and control of robotic arms. In this context, you will work on DLR's next generation of robot joints and investigate the influence of joint elasticity on their positioning accuracy.

Your Tasks:

- Conduct simulations of 1-joint-setups in MATLAB/Simulink
- Conduct experiments on two different 1-joint-hardware-testbeds
- Evaluate the results in a statistical analysis

Your Qualifications:

- Strong background in control theory
- Strong background in mechanics
- Experience with MATLAB/Simulink
- Practical experience with robotic systems (beneficial)
- Precise and structured way of working

Start:

Earliest possible date

Contact:

Please send your CV, a short letter of motivation and a transcript of records/ record of your current study progress to Clara.Raschel@dlr.de