

Thesis Opportunity: Design of a Modular System to Enable Testing of Diverse Soft Materials on a Single Setup

To test more diverse soft materials on our current experimental setup, we are seeking a student of mechanical engineering, materials science, medical engineering, or a related field to work on the design of an modular system. The system will allow us to test different soft materials with varying stiffnesses and geometries under different loading modes on the same setup.

The thesis will involve the design of the modular system, the fabrication of prototypes, and the testing of the system with different soft materials. Further steps can include the characterization of materials, modeling of the experiments, parameter identification, implementation of a DIC system and programming of data analysis tools.

The scope of the thesis can be adjusted to the interests and skills of the student, and can be either a Bachelor, Project, or Master thesis.

If you are interested, please send your curriculum vitae, current university grades, the kind of thesis (Bachelor, Project or Master) and intended starting date to Philipp Scherm (philipp.scherm@fau.de).

