Our department

Tribology & Fluids

offers an experimental and theoretical

Thesis (BA/MA)

on the subject

Analytical and experimental investigation of contact in seat valves

Together with the Forschungszentrum Jülich, a physically based model for describing the sealing process of metallic seat valves is being developed at IFAS.

In order to more accurately adjust the manufacturing tolerances of the sealing body, an analytical examination of the spherical surface contact mechanics is to be carried out. Afterwards, the already constructed test rig will be set up and used to validate the theory.

Your Task

- Introduction to the topic of metallic seat valves and contact mechanics
- Construction and commissioning of the test rig
- Execution and evaluation of contact tests

You bring with you

- Curiosity, motivation and a structured, independent way of working
- Fun with analytical and experimental investigation

We offer

- Excellent working environment, active support and as much coffee as you can drink

If you are interested or have questions please contact us via email or telephone.