Undissolved air in oil causes various problems in the operation of hydraulic systems and strongly decreases the efficiency of the system. In this respect, the functionality of the hydraulic reservoir as the only component that performs the function of releasing the accumulated air from the system is of interest. The air separation rate of a hydraulic tank varies with the dynamics of the system.

The aim of the work is to develop a multiphase CFD solver for a hydraulic tank in OpenFOAM®, considering the dynamics of the system.

If the project work is well developed, there will be a possibility of collaborating in a publication.

**Required (Bring with you):**

- Good knowledge in at least one CFD software,
- Basic knowledge of simulating with OpenFOAM®,
- Motivation and an independent way of working, as well as individual initiative

**We offer you:**

- Support in handling the project,
- A pleasant working environment,
- As much coffee as you can drink!

**Beginning:** with immediate effect

If interested, just contact me!