

Thermodynamic Characterization of CO₂ and Pump Simulation

The ZMS works on the research for the safe storage of CO₂ in subsea deposits. As part of the research we look into a novel barrier test unit which is supposed to operate with CO₂.

We offer:

- Theses (Bachelor or Master) and research masters (MSD) with subject-specific supervision
- Flexible working hours and independent work
- Practical experience in the field of applied Research
- Young and motivated team

Your profile:

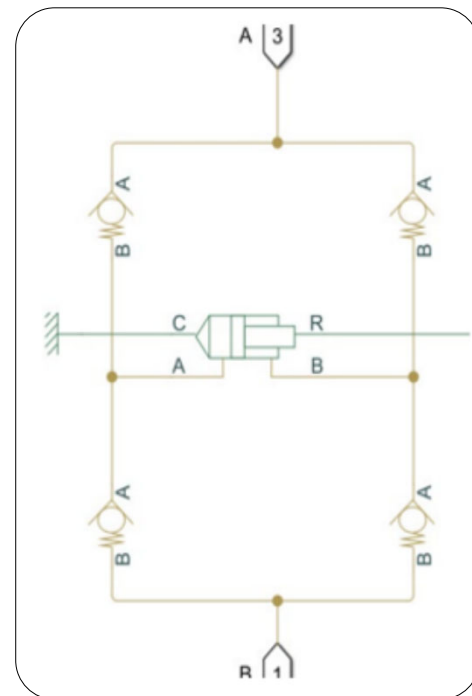
- Degree in mechatronics, electrical engineering, computer science or similar degree programs / relevant work experience
- Knowledge in Matlab
- Passionate to learn, highly motivated, responsible, independent

Your tasks:

- Characterisation of CO₂ and its states with a focus on the liquid and gaseous phases
- Thermodynamic analysis of CO₂
- Setting up a simulation in a suitable simulation programme
- Simulation of a pump system based on a piston pump and carrying out various tests in the simulation



marius.koeder@hs-aalen.de



Prof. Dr. Markus Glaser
markus.glaser@hs-aalen.de
Tel.: +49 7361 576-3308

Cooperation partners:



Advanced
Mechatronics



NTNU

Norwegian University of
Science and Technology

