As part of a research project, a novel hydraulic pump concept is developed. The construction of the pump is fundamentally similar to a radial journal bearing. The pump differs from the journal bearing in that the eccentricity is fixed for the pressure build-up, and the fluid is discharged through an outlet hole in the high-pressure region.

Your task is numerically calculation of the novel hydraulic pump with ANSYS CFD or CFX. The work packages are meshing of the lubricating film for different geometry parameters of the pump and simulation of the pressure distribution and the discharging volume flow.

You bring with you
- interest in hydraulics
- Basic knowledge of ANSYS CFD / CFX
- Independent working method

We offer that
- Interesting topic
- Working environment
- Infinite coffee for work

If you are interested or have any questions about the work, do not hesitate to contact per e-mail.