



## Masterarbeit/Studienarbeit/HiWi position

Focusing area	External Flows, Aerodynamic, Computational Fluid Dynamics, Turbulent Flows
Tools	OpenFoam/GMSH/ParaView
Your background	Experience in using open-source CFD tools and programming, interest in numerics and CFD
Duration	3-6 months
App. deadline	30 October

In many flow modeling problems, immersed boundary methods (IBM) are preferred over conventional body-fitted/conforming meshing approaches, particularly in the case of moving or complex solid-fluid boundary. However, these techniques rely on special boundary treatments or modification of governing mometum equations, which can sometimes be unstable or considerably inaccurate. The main task of the student project is model developments, implementations, benchmarking and error quantification of using an IBM technique, as well as mesh studies, for predefined flow problems.

Severely disabled persons are preferred if they are equally suitable. Proof must be enclosed. For the purpose of the application procedure, personal data will be stored is saved.

For further details contact Mr. Ali Ghasemi (M.Sc.),

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