Senior Researcher CFD-Multiphysics

Reference No.: MCL_243

Materials Center Leoben (MCL) supports numerous companies in the production sector developing high-performance materials, manufacturing processes and products. MCL designs specific computer-aided technologies in order to accelerate innovation processes in manufacturing companies as well as to support the digitalization of the value chain and products. Our portfolio includes cooperative research and development projects with international and national partners from the production and research sectors as well as several consulting, laboratory and simulation services in materials science.

Multiphysics CFD process simulation

What are we looking for….

- *PhD with focus on model development in the field of CFD*
- *Expertise in CFD-simulation (Fluent, OpenFOAM or equivalent) mandatory*
- *Competence in multiphysics model development and model reduction preferred*
- *Object-oriented programming skills required*
- *Good oral and written communication skills in English*
- *Experience with application for funded research projects*
- *Scientific curiosity, teamworking and communication skills, proactivity*

Your challenge…

- *Simulation of CFD-based topics: problem identification, model formulation, model reduction, efficient meshing, visual post-processing and interpretation of results*
- *Multiphysics model development in Fluent and OpenFOAM including implementation of e.g. material and reaction kinetic models in UDFs or source code*
- *Establishing methods for model reduction*
- *Coordination with other numerical and experimental research groups at MCL and external partners and companies.*
- *Application for and project management of research and engineering projects*

Our offer

An employment with immediate start and a (min.) gross monthly salary of € 3.800,- Overpayment depending on your professional qualification and experience is possible.

Please send your complete application documents by email.
We are looking forward to knowing you!

bewerbung@mcl.at

MATERIALS CENTER LEOBEN FORSCHUNG GMBH

We innovate Materials