

ReferenceNo.: MCL_281

Materials Center Leoben Forschung GmbH (MCL) is a leading competence center in the field of materials research and technology. In this context, we support numerous companies in the production sector developing high-performance materials, manufacturing processes and products. By developing specific computer-aided technologies, we accelerate materials based innovation including the digitalization of the manufacturing chain as well as of 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.

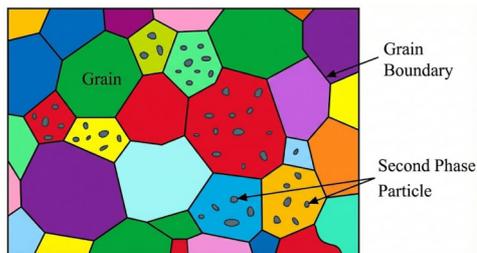
*Would you like to work in an innovative and international setting?
Then MCL is the perfect work place for you!*

Your Profile

You are a Master student in any of the computational sciences (computational materials science/physics/chemistry). The project requires knowledge in

- modeling techniques used in Machine-Learning (e.g., symbolic regression, neural nets, Bayesian methods),
- atomistic simulation,

and you are enthusiastic to develop and apply these methods to accelerate the design of innovative materials.



Tasks & Responsibilities

Continuum models can describe the material's microstructure on realistic length scales. However, continuum models are not closed and need to be complemented with information from lower scales, such as atomistic models.

In this project you will develop continuum models on the basis of atomistic data in order to predict the evolution of microstructures. This will involve

- Running the atomistic simulations,
- Develop the constitutive model based on the data coming from the atomistic simulations,
- Compare the results with direct simulations and available experimental data,

as well as writing of a peer-reviewed journal article on the obtained results.

Our offer:



- flexible working hours
- further training/education



- employee events



A temporary employment contract for 6 months with immediate start and a gross salary of € 4,880.40 with normal working hours of 10.50 hours per week.

*Please send us your application and a detailed resume. We are looking forward to it!
We would like to especially encourage women to apply.*

bewerbung@mcl.at