

ReferenceNr.: MCL_284

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.

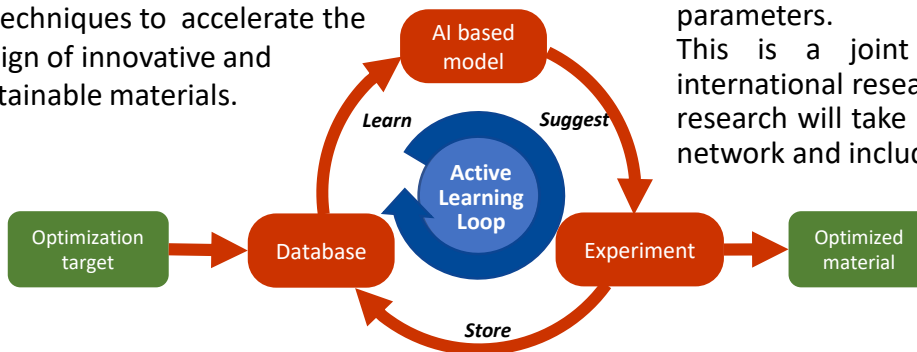
*Would you like to work in an innovative and international setting?
Then MCL is the perfect work place for you!*

Your Profile

You have or will shortly receive a master's degree in any of the materials sciences (e.g., computational materials science/physics/chemistry, applied mathematics). The project requires knowledge of

- programming (e.g., Python),
- atomistic simulations (e.g., DFT, Molecular Dynamics),

and enthusiasm for developing new methods and AI techniques to accelerate the design of innovative and sustainable materials.



Tasks & Responsibilities

The aim of the project is to develop combined computational/experimental workflows for an **AI-supported design of high-performance aluminum alloys**. The activities target increased sustainability of these alloys while still upholding excellent mechanical properties or high electrical conductivity. You will apply **accelerated materials design loops**, informed by ab initio modelling and machine-learning interatomic potentials, to identify promising new alloys and processing parameters.

This is a joint project with national and international research and company partners. The research will take part in a collaborative scientific network and include **research stays abroad**.

Our offer:



- flexible working hours
- further training/education
- home office
- employee events
- cooperation with Firmenradl

A permanent employment contract with immediate start and a gross salary per year of at least € 52.862,74 (40h/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.*

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