

Materials Center Leoben (MCL) - with a staff of 180 highly specialized employees - 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. MCL's 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.

To strengthen our team, we are looking for someone with the following area of responsibility or requirement profile:

## PhD position

### *Modelling recrystallization in low alloy steels*

*Reference-n.: MCL\_192*

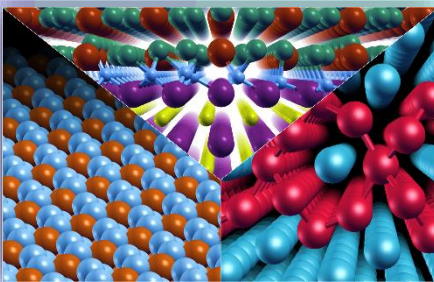
## **Material design – Modelling – Machine learning**

*These topics inspire you or you are already familiar with them? Then you are right the person we are looking for!*

#### What do we need?

- Academic degree (master equivalent) preferably physics, materials science or mathematics
- Knowledge in programming languages, interests in modern material design
- Interest in experimental techniques
- Scientific curiosity, team skills, self-initiative
- Good oral and written communication skills in English

**We are working worldwide in strong cooperation with well-known scientific- and company partners**



#### Your tasks?

- Model development for recrystallization in low alloy steels
- Calculations of defects using density functional theory
- Set up of machine learning algorithm for optimizing materials
- Validation of simulation framework by experimental data
- Presentation of results at international conferences and project meetings
- Writing of scientific articles for peer reviewed journals

#### Our offer:

A permanent employment, with an immediate start and a gross monthly salary of € 2.928,92 (14 times per year).

Please send your complete application documents by post or email. We would be pleased to get to know you!

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