

Materials Center Leoben Forschung GmbH (MCL) is an internationally active research institution specializing in materials research. The field of activity of MCL includes on the one hand the implementation of research and development projects along the whole product value chain (materials design, materials processing and materials use in innovative products) and on the other hand materialbased services (laboratory, computational and advisory services).

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

PhD Thesis

High temperature alloys based on the High Entropy concept

Reference-n°.: MCL_127

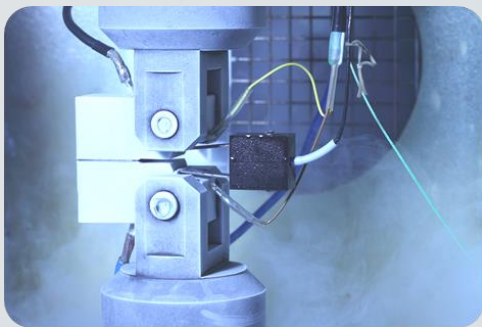
Creativity – Innovation - Engagement

These characteristics are typical for you? Then you are right the person we are looking for!

What do we need?

- *University degree (materials science, metallurgy, technical chemistry, ...)*
- Knowledge of materials science and material development
- Knowledge about thermodynamic calculations using e.g. ThermoCalc preferable
- Knowledge of metallurgical production routes of materials preferable
- Good oral and written communication skills in German and English

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



Your tasks?

- *Selection of promising alloys from the literature*
- *Production of promising alloys in the form of small castings*
- *Selection of the most promising material concept and evaluation of the model alloys by characterization of the microstructure and mechanical tests*
- *Detailed investigation and development of the most promising high-entropy alloy*
- *Product production and implementation of mechanical tests on a laboratory scale*
- *Close cooperation with the simulation team regarding model adaption*

Our offer:

A permanent employment, with start in May 2018 and a gross monthly salary of € 2.794,60.

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

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