

PostDoc Computational Materials Design

Reference No.: MCL_231

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.

Multiscale modelling of Materials

Do this topic inspire you or are you already familiar with them?

What are we looking for....

- *PhD in Materials Science*
- *Expertise in FEM simulations*
- *Competence in model development for materials design*
- *Experience in object oriented programming and software development*
- *Good oral and written communication skills in English*
- *Knowledge on machine learning methods is highly welcome*
- *Scientific curiosity and creativity, proactivity, team working capabilities*

Your challenge...

- *Development of scale-bridging models for H-material interactions, fracture mechanics and phase transformations*
- *Implementation of FEM models*
- *Establishing software tools for materials design*
- *Interaction and coordination with other simulation experts, experimentalists, national and international partners*
- *Supervision of students*
- *Application for and management of research projects*

Our offer

An employment with immediate start and a (min.) gross monthly salary of € 3600,- Overpayment dependent on your professional qualification and experience possible.

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

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