

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 qualifications and responsibilities:

## PhD position

### *Simulation of microstructure evolution and damage in solder joints*

*Reference-n.: MCL\_202*

## **Material design – Modelling – Material science**

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

### What are we looking for?

- *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 work in close cooperation with well-known scientific and company partners worldwide!**

### Your tasks?

- *Development of thermodynamic models describing the phase and microstructure evolution in lead-free solder joints*
- *Setting up finite element models and implementing the developed theoretical frameworks calibrated to real material systems to predict damage in different load cases*
- *Collaboration with international scientific partners and company partners*
- *Presentation of results at international conferences and project meetings*
- *Writing of scientific articles for peer reviewed journals*

### Our offer:

An employment contract with an immediate start and a gross monthly salary of € 2971,39.

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



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