

The 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 material-based services (laboratory, computational and advisory services).

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

## ***One PhD position***

### **Dynamical polarisation mechanisms in thin film relaxors for energy storage applications**

*Referenz-Nr.: MCL\_169*

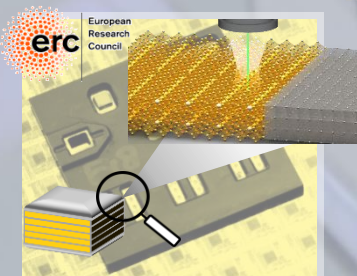
### **Relaxor ferroelectrics – Correlation chemical substitution / electric polarisation – High energy density ceramic capacitors**

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

#### **What do we need?**

- *Academic degree (master equivalent) in physics, materials science or chemistry*
- *Interest and experience in Raman spectroscopy and/or atomistic modelling*
- *Familiarity with ceramic materials – in particular electroceramics*
- *Scientific curiosity, team skills, self-initiative*
- *Good oral and written communication skills in English*

**You will be involved in a cutting-edge ERC-funded project, together with a top worldwide network of scientific institutions and companies!**

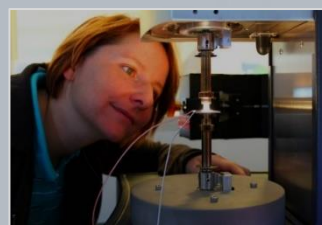
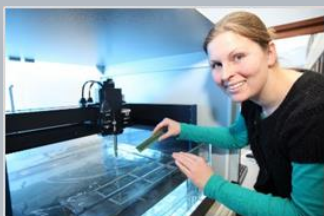


#### **Your tasks?**

- *Setting up of a new Raman method to study relaxors*
- *Correlate the nanoscale polar order at various E-field frequencies with atomic arrangements induced by chemical substitution*
- *Use of atomistic modelling routines (DFT, MD)*
- *Participation to international cooperation*
- *Dissemination of results (international conferences, peer-reviewed articles)*

#### **Our offer:**

A permanent employment, with start in January 2020 and a gross monthly salary of € 2.794.60. Please send your complete application documents by post/email until September 15<sup>th</sup>, 2019. We would be pleased to get to know you!



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