

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 Student

Sol-gel synthesis and reliability of co-doped perovskite thin films for capacitor applications

Reference-n°.: MCL_187

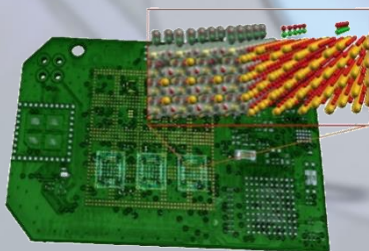
Relaxor perovskites – sol-gel thin films – high energy density capacitors

*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) preferably chemistry or materials science*
- *Knowledge in sol-gel thin film synthesis*
- *Interest and experience in experimental techniques, in particular surface science methods*
- *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?

- *Design and processing of new lead-free perovskite compounds with high energy density for energy storage capacitors*
- *Study of electrical conduction at interfaces and its relation with defect distribution and residual stress*
- *Investigation of fatigue-driven failure mechanisms*
- *Participation to international cooperation*
- *Dissemination of results (international conferences, peer-reviewed articles)*

Our offer:

An employment contract with start in January 2021 and a gross monthly salary of € 2928,92. Please send your complete application documents by post/email until September 30th, 2020. We would be pleased to get to know you!



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