

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 **High-efficiency energy storage systems** **based on perovskite thin films**

Reference-n.: MCL_190

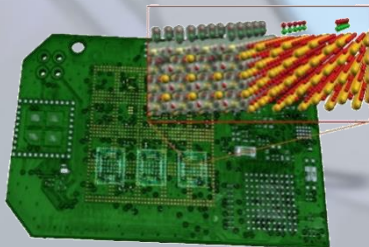
Relaxor perovskites – sol-gel thin films – high-efficiency energy storage

*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, materials science or physics*
- *Knowledge in sol-gel thin film synthesis and lithography techniques*
- *Interest and experience in experimental techniques, in particular electrical measurements and microscopy*
- *Scientific curiosity, team skills, self-initiative, strategic thinking*
- *Good oral and written communication skills in English*

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



Your tasks?

- *Design and processing of new high energy density energy storage capacitors based on perovskite thin films*
- *Study of electrical properties and their relation with defects and interface structure (electrode, buffer layer)*
- *Working in an international project consortium*
- *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 November 15th, 2020.
We would be pleased to get to know you!

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