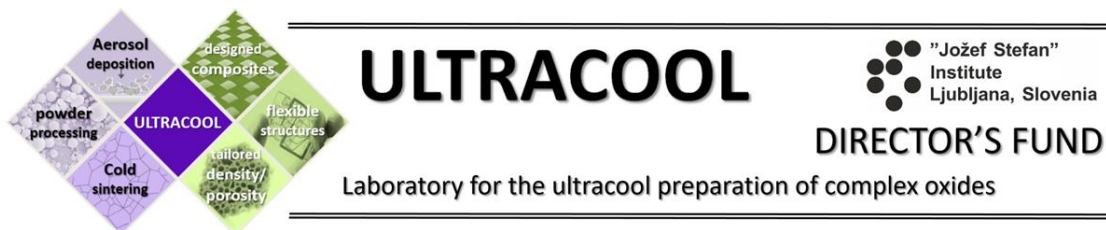


Vacant postdoctoral position in the field of materials science

We are currently seeking a postdoctoral researcher to lead experimental studies in the field of ferroic oxide materials, specifically ferroelectrics, piezoelectrics, and calorics. This position will be based at the Jožef Stefan Institute in Ljubljana, Slovenia.



The focus of the research will involve ferroelectric ceramic materials, with the primary goal being the preparation and characterization of functional thick films (including piezoelectric, caloric, and energy storage properties) using the aerosol deposition method.

The selected candidate will be involved in ongoing national projects, engaging in experimental work that entails the preparation and characterization of ceramic thick-film samples. This will involve (micro)structural analysis as well as the assessment of functional properties such as dielectric, ferroelectric, and electrocaloric behaviors.

The candidate should possess expertise in ceramic processing, familiarity with basic (micro)structural characterization techniques (such as XRD, SEM, and AFM), and proficiency in macroscopic electrical measurement methods. A minimum English proficiency level of B2 (CEFR) is required, along with communication skills and a background in collaborative research environments.

The successful candidate will be immersed in a dynamic and interdisciplinary professional setting, providing opportunities for research growth and invaluable academic references. Access to state-of-the-art facilities will be provided for independent work, supplemented by comprehensive supervision from a senior researcher. Collaboration with international research teams will be encouraged, offering the chance to establish global connections within the scientific community.

For more information:

Prof. Dr. Hana Uršič

Electronic Ceramics Department, Jožef Stefan Institute, Ljubljana, Slovenia

<https://scholar.google.com/citations?user=ljc7xS4AAAAJ&hl/an>

Please apply to: hana.ursic@ijs.si

Related references:

<https://www.sciencedirect.com/science/article/pii/S1359645421007825>

<https://pubs.rsc.org/en/content/articlehtml/2023/tc/d3tc01555f>

<https://onlinelibrary.wiley.com/doi/full/10.1002/smt.202300212>

<https://iopscience.iop.org/article/10.1088/2515-7655/ac5fd5/meta>

<https://pubs.acs.org/doi/full/10.1021/acsaem.2c00518>