

IFW Dresden e.V.



The Leibniz Institute for Solid State and Materials Research Dresden e. V. (IFW Dresden) conducts modern materials research on a scientific basis for the development of new and sustainable materials and technologies. The institute employs an average of 500 people from over 40 nations and, in addition to its scientific tasks, is dedicated to promoting young scientists and engineers. Further information at: <http://www.ifw-dresden.de>. The Institute for Metallic Materials (Prof. K. Nielsch) of the IFW Dresden offers a

Post Doc Position (m/f/div)

on the following topic: Project Coordination and Build-up of an ALD Laboratory in the Republic of Moldova

City: Dresden; Starting date (earliest): 01/04/26; Duration: 30.09.2028; Remuneration: TV-L 13; Reference number: 008-26-2001; Closing date: 20/01/26

Working field

We invite applications for a Postdoctoral Researcher (m/f/div) to coordinate and support the development of a joint Atomic Layer Deposition (ALD) laboratory in collaboration with the Technical University of Moldova (UTM), Republic of Moldova. Exceptionally talented applicants with outstanding master's or diploma grades are also welcome to apply. We offer a 70% position for those interested in pursuing their scientific Ph.D. thesis on this topic.

This interdisciplinary project focuses on ALD processes on porous substrates for a variety of applications. The successful candidate will contribute to establishing and advancing the joint ALD laboratory, including the development of ALD reactors and process optimization for nitride based semiconducting materials. Additional responsibilities include organizing researcher ex-changes, workshops, and a dedicated summer school to strengthen collaboration and training within the project network. Optional, the postdoctoral coworker can partly focus his/her research on the advanced characterization of nanostructure materials by transmission electron microscopy. Prepare scientific publications and contribute to project reporting and student supervision.

Requirements

- Ph.D. in Chemistry, Materials Science, Mechanical Engineering, or a related discipline
- Background in solid-state chemistry or physics
- Experience in thin film deposition techniques from gas phase (e.g. ALD, CVD)
- Familiarity with the detailed characterization of thin films is an advantage
- Excellent organizational and communication skills
- Enjoyment of teamwork, building up transnational networks and organizing scientific events

- Willingness to travel between project sites and writing scientific publications.
- We offer comprehensive training in ALD thin film growth, semiconductor characterization, and ALD reactor construction, operation, and maintenance. The position provides a stimulating interdisciplinary environment and an opportunity to play a key role in establishing a new international ALD research platform.

What we offer

- employment in accordance with the collective agreement for the public service of the federal states (TV-L),
- A modern, well-equipped workplace on the campus of the Technische Universität Dresden,
- Flexible, family-friendly working hours,
- 30 days vacation,
- Company pension scheme (VBL),
- Benefits for job ticket/Germany ticket,
- Special annual payment,
- Capital-forming benefits,
- Company health management (back training, health day with various offers),
- discounted sports offers from the Dresden University Sports Center,
- job-related further training opportunities and language courses,
- Company restaurant with a variety of breakfast and lunch dishes.

The contract of employment, including remuneration, is based on the collective bargaining law for the public service of the federal states TV-L EG 13 / full-time basis (part-time is possible). The position is limited according the project duration until September 30, 2028. The anticipated start date is April 1, 2026.

In line with our commitment to diversity, we encourage qualified women to apply, as we aim to increase female representation in the field of science. Additionally, disabled applicants (m/f/div) will receive preferential consideration if they meet the requisite qualifications. Promising candidates will be invited for an interview.

Application

If this opportunity aligns with your aspirations, please submit your application citing the reference number 008-26-2001 by January 20, 2026, in electronic format as a single PDF file (other formats will not be considered) to

bewerbung@ifw-dresden.de

Your application should include a letter of motivation, CV, relevant transcripts, training certificates, and contact details for at least two professional references.

More information at <https://stellenticket.de/200108/TUBS/>
Offer visible until 11/01/26

