

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. The IFW supports its employees in reconciling work and family life and regularly undergoes the audit [berufundfamilie®](#). Further information at:

<http://www.ifw-dresden.de>.



The Institute for Metallic Materials the IFW Dresden offers a

## Postdoc Position (m/f/div)

starting at May 1, 2026 in full-time (part-time is also possible) limited to 20 months, with the possibility of extension up to 36 months.

### **Project Overview:**

We invite applications for a Postdoctoral Researcher (m/f/div) to coordinate and support the development of thermoelectric thin film devices, based on the principles of transverse thermoelectric effects [e.g. K. Uchida, *Joule* 6, 2245 (2022)]. Exceptionally talented applicants with outstanding master's or diploma grades are also encouraged to apply. For candidates interested in pursuing their scientific Ph.D. thesis, we offer a 70% position.

This interdisciplinary project focuses on:

- i) development of thermoelectric inks
- ii) printing of thermoelectric devices (i.e., by screen- or other forms of 2D printing)
- iii) simulation of these devices for different application scenarios and iv) testing on both laboratory and real environment conditions.

Notably, this young scientist will be involved in the International Joint Research Center for Future Thermoelectric Materials between the IFW Dresden and the Pohang University of Science and Technology (POSTECH) and it is expected that the candidate will spend part of the research time in Korea. Furthermore, scientific publications, project report contributions and student supervision will be also a part of this postdoc position. Optionally, this postdoctoral coworker may partly focus his/her research on the advanced characterization of nanostructure materials by transmission electron microscopy (TEM).



### **Your profile:**

- Ph.D. in Chemistry, Materials Science, Mechanical Engineering, or a related discipline
- Solid background in solid-state chemistry and/ or physics
- Basic understanding of the principles behind printing technologies
- Experience in thin film deposition techniques from solution and gas phase
- Familiarity with the detailed characterization of thin films or bulk materials is an advantage
- Excellent organizational and communication skills
- Willingness to travel between project sites as well as writing scientific publications and reports
- Enjoyment of collaborative teamwork in an international setting, with interest in building transnational networks and actively contributing to public outreach and dissemination activities.

### **What we offer:**

- a modern, well-equipped workplace on the campus of the Technische Universität Dresden,
- flexible, family-friendly working hours,
- 30 days vacation per year,
- 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.
- a future-oriented environment with a workplace with modern research infrastructure,
- working with international and interdisciplinary scientists from different fields,
- working on current research fields.

The employment relationship, including the salary is according to the German tariff TV-L and is task-related up to pay group 13 TV-L.

### **Notes on the application:**

IFW Dresden strives for a balanced gender ratio in all areas. In science, IFW Dresden would like to increase the proportion of women and therefore explicitly invites suitably qualified female scientists to apply. Applications from severely disabled individuals and those with equal status according to § 2 paragraph 3 SGB IX are explicitly welcomed. A corresponding proof must be included with the application documents.

If you are interested in the position, please send your application including a CV and the list of publications, a motivation letter describing the research career goals, skills and experience, copies of certificates citing the reference number **023-26-2001** as a single pdf file (other formats will not be accepted) no later than **31 March 2026** to

[bewerbung@ifw-dresden.de](mailto:bewerbung@ifw-dresden.de).