Dresden University of Technology

TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At the **Faculty of Physics, Institute of Solid State and Materials Physics,** the **Chair of Neutron Spectroscopy of Condensed Matter** (Prof. Dr. Dmytro Inosov) offers a position as

Research Associate (m/f/x)

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting as **soon as possible** with 60% of the fulltime weekly hours. The position is initially limited until August 28, 2027, with an extension, anticipated subject to satisfactory project development. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position offers the chance to obtain further academic qualification (usually PhD).

The goal of the project, funded by the German Research Foundation (DFG), is to experimentally investigate the magnetic properties of hydroxide double-perovskites of transition metals, MSn(OH)$_6$ and MGe(OH)$_6$, in order to understand the role of the correlated proton disorder and magnetic frustration in suppressing the long-range spin order at low temperatures.

Tasks: The successful candidate will investigate magnetic structures and spin dynamics in the above-mentioned compounds using neutron diffraction and inelastic neutron scattering, analyze the resulting experimental data, and interpret the results in collaboration with additional experimental and theoretical research groups. In close cooperation with colleagues from the Institute of Inorganic Chemistry, the crystal structures and magnetic properties of novel hydroxide double perovskites containing 5d and 6d transition metals will also be determined for the first time.

Requirements:

- a university degree (M.Sc., Dipl.) in solid-state physics or a related discipline
- solid knowledge of solid-state physics, crystallography, magnetism, and quantum mechanics
- preferably practical experience in crystal structure determination and/or in experimental methods for sample characterization at low temperatures (e.g., magnetometry, heat capacity measurements, X-ray diffraction)
- very good command of both written and spoken English
- ability to work creatively and independently
- strong commitment and willingness to integrate into the existing team and assume responsibility

We offer:

- intensive mentoring in an attractive scientific environment in combination with excellent infrastructure.
- the project promotes collaboration in an established, interdisciplinary team of experimentalists and theoreticians
- the project offers various opportunities for cooperation with other research groups

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your detailed application with cover letter, curriculum vitae, copies of degree certificates and a brief description of your previous professional activities by **March 5, 2026** (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf file to **dmytro.inosov@tu-dresden.de** or to:

TU Dresden, Chair of Neutron Spectroscopy of Condensed Matter, Prof. Dr. Dmytro Inosov, Helmholtzstr. 10, 01069 Dresden, Germany.

Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

TUD is a founding partner in the DRESDEN-concept alliance.

DRESDEN concept

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis.