

The Department of Material Sciences and Process Engineering, Institute of Physics and Materials Science is currently seeking a

## **Postgraduate Research Associate (project employment)**

Reference code: 25

Extent of employment: 30 hours per week  
Duration of employment: 1<sup>st</sup> of April 2022, limited to 30<sup>th</sup> of September 2025

Workplace: 1190 Vienna

Gross monthly salary and pay grade in terms of collective agreement for university staff (payable 14 times per year): B1, € 2.294,00

Background: Wood as building material can be particularly affected by moisture fluctuations. In an interdisciplinary research project, we aim to monitor the condition of wooden components with intelligent sensors.

### **Responsibilities**

- Collaboration in an interdisciplinary project consortium with a specific focus on sensing, monitoring and signal processing of moisture, temperature and stresses with innovative sensors
- Operative research on the border of material sciences, metrology and signal processing
- Tasks including literature research, designing and performing laboratory experiments; sensor positioning and writing; signal processing; measurement; design of experiments
- Close cooperation with project partners from academics and industry
- Project reporting, publishing in scientific journals and participation in (inter-) national conferences
- It is desired that the candidate is willing to perform a PhD study to obtain a doctorate degree

### **Required skills and qualifications**

- Diploma degree in applied or experimental physics, material sciences, electronics or information technology or other equivalent university degree
- Basic understanding of and high interest in material science is required: wood, polymers
- Curiosity and a knowledge-based, creative approach to problem solving
- Ability to work in a team, self-reliance, reliability and communication skills
- Very good knowledge of written English
- Knowledge of the German language is an advantage

### **Desirable skills and qualifications**

- Experience in metrology of physical properties with sensors
- Interest in sensor technology and electronics
- Interest in statistical data analysis

Applications can be submitted until: 28<sup>th</sup> of February 2022

University of Natural Resources and Life Sciences Vienna seeks to increase the number of its female faculty and staff members. Therefore qualified women are strongly encouraged to apply. In case of equal qualification, female candidates will be given preference unless reasons specific to an individual male candidate tilt the balance in his favour.

People with disabilities and appropriate qualifications are specifically encouraged to apply.

Please send your job application incl.

- motivation letter
- CV
- Copy of diploma / master's degree certificate

to Personnel department, University of Natural Resources and Life Sciences, Peter-Jordan-Straße 70, 1190 Vienna; E-Mail: [kerstin.buchmueller@boku.ac.at](mailto:kerstin.buchmueller@boku.ac.at). **(Reference code: 25)**

We regret that we cannot reimburse applicants travel and lodging expenses incurred as part of the selection and hiring process.

**[www.boku.ac.at](http://www.boku.ac.at)**