

The Department of Material Sciences and Process Engineering, Institute of Wood Technology and Renewable Materials is currently seeking a

Postgraduate Research Associate (project employment) (Reference code: 214)

Extent of employment: 30 hours per week
Duration of employment: 1st of December 2022, limited to 30th of November 2025

Workplace: Tulln

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

Current and future challenges in the mobility sector call for new vehicle concepts. Sustainability, material availability, multi-material mix and lightweight construction are central trends in future vehicle construction. New materials and material combinations are being intensively sought. Wood has excellent material properties at low density. Used correctly, wood materials are competitive with fiber-reinforced plastics and metals.

The focus of the present position is the use of wood in the field of aeronautical engineering requires, on the one hand, a precise and reliable mathematical description of the material behavior under load and crash conditions and, on the other hand, a free shaping of components with corresponding mechanical performance.

The PhD candidate is responsible for operative, scientific research in the field of wood composites.

Responsibilities

- Literature research, designing and performing laboratory experiments, adhesive and material testing, evaluating results
- Close cooperation with project partners from industry
- Project reporting, publishing in scientific journals and participation at (inter)national conferences
- It is favored that the candidate is willing to perform a PhD study to obtain a doctorate degree (with the possibility to apply for the doctoral programme Advanced Biofineries: Chemistry and Materials (ABC & M)
<https://boku.ac.at/en/studienservices/studien/doktoratsstudien/uh761>)

Required skills and qualifications

- Diploma degree in wood technology, wood science, material science or other equivalent university degree
- Interest in the complementary scientific field (wood and/or civil engineering and/or material sciences of comparable) is required
- High motivation to develop future-proof solutions for technological questions
- 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 (the everyday working language can also be German)

Desirable skills and qualifications

- Knowledge of relevant experimental design

Applications can be submitted until: 17th of November 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. (**Reference code: 214**)

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

www.boku.ac.at