



## PhD Position/Job-offer

### Analysing debris flow impact forces on bridge superstructures based on small scale experiments

Expiration Date: November 15, 2019

The University of Natural Resources and Life Sciences, Vienna is recruiting a Ph.D. student to research superstructures of bridges exposed to debris flow impacts. The PhD candidate will be part of the recently granted PhD project “Debris flow impact forces on bridge superstructures (Defsup)” funded by the FWF (Austrian Science Fund). Within the scope of this project, the forces on the superstructure of bridges due to debris flow impacts are to be investigated experimentally.

We are looking for a PhD student focusing on better understanding and predicting debris flow impact forces on bridge superstructures. The research would involve mainly laboratory flume experiments. The student will be involved in setting up the experimental facility as well as carrying out the experiments. This position is hosted by the Institute of Mountain Risk Engineering (IAN), University of Natural Resources and Life Sciences, Vienna. IAN supports graduate degrees in Civil and Environmental Engineering, Forestry, Geography, Mechanical Engineering, Water Resources, Environmental Science, and Geological Sciences. The candidate will be supervised by Professor Dr. Dirk Proske and PD Dr. Christian Scheidl.

The ideal applicant will have:

A master’s degree with strong engineering-related coursework (civil engineering, Mechanical engineering, environmental engineering, etc.). Strong quantitative skills (basic knowledge on MatLab, R, or coding). Experience or interest in thinking across disciplines. Excellent written and oral communication skills. Ability to work collaboratively. We seek candidates who can bring creativity and initiative to the study.

To discuss your qualifications before applying, please contact [dirk.proske@boku.ac.at](mailto:dirk.proske@boku.ac.at) or [christian.scheidl@boku.ac.at](mailto:christian.scheidl@boku.ac.at)

Start Date: February 2020.

Position Details and Benefits: The student will be housed in the IAN, BOKU and supported with a graduate research assistantship for 3 years based on the standard personnel costs and salaries for FWF project proposals (2019; <https://www.fwf.ac.at/en/research-funding/personnel-costs/> ). Support includes conference travel and further training, e.g. summer schools. Teaching assistant opportunities within the department are also available. The University of Natural Resources and Life Sciences is located in Vienna, Austria-Europe, the capital of Austria with excellent cultural, dining, and recreational opportunities locally as well as in the nearby region.

Interested? Please email to [ian@boku.ac.at](mailto:ian@boku.ac.at) with the subject line “DEFSUP” and attach as a single PDF: 1) a 1-page cover letter describing your interest in and suitability for the position; and 2) your current CV or resume.