



## JOIN US at **BOKU University, Vienna**

(Vienna, May 2024)

We are looking for

**two PhD candidates & a post-doc**

*in granular mechanics and granular physics.*

Make your career on frontier research in our high-profile project MOTRAN and develop the next generation models for high fidelity simulation of transient granular flow with high impact on engineering applications. Join our dynamic team at the Institute of Geotechnical Engineering at BOKU University, Vienna, Austria.

**MOTRAN (Modelling Transient Granular Flow)** is supported by an Advanced Grant of the European Research Council (ERC), awarded to Prof. Wei Wu in 2024. MOTRAN will develop a high-fidelity numerical model for the multiscale simulation of the transient behaviour during the phase transition of granular materials. MOTRAN pursues the following objectives: (1) constitutive model; (2) fully coupled SPH-DEM numerical model; (3) unique lab experiments on granular flow for calibration and validation.

**CANDIDATE PROFILE:** For PhD candidates a recent M.Sc. (or equivalent) degree in Civil or Mechanical Engineering or Physics, Computation Mechanics is required. Background in granular mechanics, granular physics, modern numerical methods (particle-based) is very much appreciated. Candidates are expected to demonstrate independent research and scientific reporting skills. Communication skills and teamwork attitude are a big plus. Selected candidates will be invited for an online interview.

**CONDITIONS OF EMPLOYMENT:** We offer excellent research facilities and a competitive salary fully covered by the advanced grant of ERC. We are looking for motivated candidates ready to undertake theoretical, numerical and experimental work in our international team.

**APPLICATIONS:** The call is open till August 31<sup>st</sup> 2024 and candidates are urged to apply as early as they can. Please contact [geotech@boku.ac.at](mailto:geotech@boku.ac.at) for applications. Suitable candidates should send an e-mail including a cover letter describing interests and qualifications and a CV, **as a single PDF**.



[www.boku.ac.at/en/baumat/igt](http://www.boku.ac.at/en/baumat/igt)



The "Modeling transient granular flow" (MOTRAN) project is funded by the European Research Council (ERC) as an ERC Advanced Grant (project number 101141312).