



**JOHANNES KEPLER
UNIVERSITY LINZ**

As the largest institution of research and education in Upper Austria, the Johannes Kepler University Linz has over 20,000 enrolled students and 3,000 employees. The JKU's four faculties offer over 60 academic degree programs. We are looking to strengthen our team at the Faculty of Engineering and Natural Sciences and announce a job opening starting March 1, 2018, for a

**PhD Position (full-time) in Efficient Time-
Extrapolation of DEM Simulations
(Synaptic DEM)
to August 31, 2018**

**at the Institute of Fluid Mechanics and
Heat Transfer, Department of Particulate
Flow Modelling**

Job Reference Number: 3506

Job Duties:

- Develop a simulation method for the efficient propagation of information in dense granular flows (i.e. by considering DEM particles as synapses in a granular network)
- Introduce this methodology in an open-source framework (i.e. LIGGGHTS and CFDEM)
- Validate and apply to industrial processes (e.g. long-term thermal and chemical conversion of particles in a shaft furnace)

Your Qualifications:

- The successful candidate must hold a Diploma/Master's degree in Engineering Science, Physics or Mathematics
- Possess experience in Numerical Simulations of Fluid Flow
- Possess experience in Modelling Multiphase (Granular) Flows
- Possess experience in C++

The minimum salary in accordance with the collective agreement is € 2.731,00 gross per month.

If you have questions, please contact: Assoc. Univ. Prof.

DI Dr. Stefan Pirker, E-mail: stefan.pirker@jku.at.

Application deadline: January 28, 2018.

The Johannes Kepler University wishes to increase the proportion of academic female faculty and, for this reason, especially welcomes applications by qualified women. If applicants are equally qualified, a woman will be given preference for this position. The university welcomes applications from qualified applicants with physical disabilities. These applications will be given special consideration.

Prospective applicants interested in the multifaceted position are requested to electronically send an application in adherence to the stated criteria together with the requested documentation via e-mail to: andrea.scharinger@jku.at.



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