



**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 January 1, 2018, for a

**Open Post-Doc Position in Modelling of
Recurrent Gas-Solid Flows
for a full-time, four-year position
at the Institute of Fluid Mechanics
and Heat Transfer, Department of
Particulate Flow Modelling**

Job Reference Number: 3490

Job Duties:

- Identify characteristic time scales and flow patterns in a fluidized bed by means of conventional CFD
- Additional development and implementation of novel rCFD for a lab-scale fluidized bed
- Develop and implement meso-scale models (gas-solid turbulence) for drag, heat and mass transfer
- Develop new parallelization and communication techniques
- Validate rCFD at large-scale fluidized bed against literature data
- Apply to industrial large-scale plant

Your Qualifications:

- Doctorate/Ph.D. in Physics, Mathematics or Engineering Science
- Experience with numerical simulations of fluid and granular flows
- Understand metallurgical processes

The minimum salary in accordance with the collective agreement is € 3,626.60 gross per month.

If you have questions, please contact:
Priv. Doz. DI Dr. Simon Schneiderbauer,

E-mail: simon.schneiderbauer@jku.at

Application deadline: December 20, 2017.

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 mail to andrea.scharinger@jku.at.



www.jku.at/ausschreibungen