

Stellenausschreibung

Job advertisement

The **Technical University of Munich**, Germany, anticipates hiring two positions in the area of Hydraulics and Water Resources Engineering:

(1) A Post-Doctoral Research Fellow position is available for a 4-year period with the possibility of extension, depending on funding availability. The successful candidate will work at the Chair of Hydraulic and Water Resources Engineering in the Department of Civil, Geo and Environmental Engineering of TUM and will collaborate on an interdisciplinary research project. The candidate will support the linkage of hydro-morphodynamic models with the hydrology models of the scientific partner within the "Wasser Zukunft Bayern"-Project funded by the Bavarian State Ministry of the Environment and Consumer Protection.

The project is focused on future challenges of water management in Bavaria with regard to extreme floods and the associated sediment transport as well as the consequences for water research, taking into account the extremely dynamic developments in the field of information technologies and simulation of environmental systems.

The successful candidate will be employed as an associate research fellow (full-time, TVL-E14). Release time and an independent travel allowance will be granted for the successful candidate to carry out the project. The position is available on **January 15, 2018**.

PREFERRED QUALIFICATIONS AND EXPERIENCE

- PhD degree in Civil, Environmental or Ecological Engineering, Water Resources, or in a related area (Hydrology, Geomorphology or other relevant Earth Sciences) from an accredited university
- Experience with river hydraulics, sediment transport and morphology processes
- Good knowledge in numerical programming (e.g. FORTRAN, C/ C++, MATLAB)
- Desire to work with numerical modelling and application at the interface between hydraulics, sediment transport and morphology
- Strong academic record of scholarly work published in international journals and scientific conferences
- Fluent spoken and written English and German, as well as good communication skills
- Willingness to be a flexible and responsible team-leader

APPLICATION PROCEDURE

For application please send the following documents to Prof. Dr. Peter Rutschmann at peter.rutschmann@tum.de

1. Cover letter
2. CV with your passport photo
3. Abstract of PhD thesis
4. Copy of selected publications

Applications will be received until the position is filled, with earlier applicants given the strongest consideration.

The Technical University of Munich is aiming for an increase in the proportion of women, and qualified women are therefore urged to apply. Handicapped persons are preferred with otherwise substantially equal qualification.

(2) A PhD / Research Assistant position is available for a 4-year period with the possibility of extension, depending on funding availability. The successful candidate will study towards a PhD in Civil Engineering, in the Hydraulic and Water Resources Engineering group at TUM's Department of Civil, Geo and Environmental Engineering.

The candidate will be employed as a research assistant (full-time, TVL-E13) and register for a PhD Release time and an independent travel allowance will be granted to carry out the project successfully. The position is available on **January 15, 2018**.

PREFERRED QUALIFICATIONS AND EXPERIENCE

- MSc. or Dipl.-Ing. degree in Civil, Environmental or Ecological Engineering, Water Resources, or in a related area (Hydrology, Geomorphology or other relevant Earth Sciences) from an accredited university
- Sound background in hydraulics, sediment transport and river morphology. Prior experience with coding and analysis in programming languages is a plus
- Desire to work with numerical modelling and application at the interface between hydraulics, sediment transport and river morphology. Prior record of published scholarly work is a plus
- Fluent spoken and written English and German, as well as good communication skills.
- Willingness to be a flexible and responsible team worker

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1. Cover letter
2. CV with your passport photo
3. Transcript of academic records
4. Abstract of MSc. thesis
5. Copy of selected publications (optional)

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Munich, in December 2017