

Technical University of Munich, Department of Civil, Geo and Environmental Engineering,
Research Group Modeling Spatial Mobility

Doctoral Researcher in Transport Modeling

Position Summary: We have an opening for a doctoral position in transport modeling. The ideal candidate has a background in transport modeling or transport analyses and brings experience with a programming or scripting language.

About us: Modeling Spatial Mobility is a research group in the Department of Civil, Geo and Environmental Engineering at the Technical University of Munich (TUM) with the vision to further develop mathematical models of transport, land-use and environmental impacts. Special attention is given to agent-based approaches, the interaction of land use and transport, machine learning approaches and alternative data sources. The group consists of ten researchers and takes pride of the cooperative environment within the team.

Primary Responsibility: The successful applicant will work with the research group Modeling Spatial Mobility on research projects and pursue a doctoral degree at TUM. The main tasks include to enhance agent-based transport models, work with new data sources and better integrate transport models with land use models.

The successful applicant is expected to lead selected tasks of model development. In addition to research, the successful applicant will also be involved in teaching. Teaching topics will be selected in coordination with the applicant's interests and the teaching needs of TUM's Transportation Systems M.Sc. Program. Research findings will also be published and presented at conferences.

Minimum Qualifications: A master's degree or equivalent and prior experience transport modeling or transport analyses are expected. Experience with a programming or scripting language is important, with a preference for experience with Java. Familiarity with version control (git) is desired. Excellent written and oral communication in English is required.

The position can be filled as soon as possible and is initially funded for three years with the potential to renewal. We offer flexible working conditions in a highly motivated and very international research environment. The salary is in accordance to the Public Sector Collective Agreement on Länder (TV-L) with a pay grade TV-L E 13. The Technical University of Munich is an equal opportunity employer. Qualified women are particularly encouraged to apply. Applicants with disabilities are treated with preference given comparable qualification.

Application requirements and deadlines: Applicants should submit a letter of interest (max. 2 pages), a curriculum vitae, and the names and contact information of three references in pdf format and send it to applications.msm.bgu@tum.de. Review of applications will begin April 23rd, 2021 and continue until position is filled.

Questions? Please contact Prof. Rolf Moeckel (+49.89.289.22699 or rolf.moeckel@tum.de) for any further questions about this position.