

Technical University of Munich, Department of Mobility Systems Engineering,
Research Group Travel Behavior

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: The research group Travel Behavior at the Department of Mobility Systems Engineering at the Technical University of Munich (TUM) was established in 2015 and has the vision to further develop mathematical models of transport, land-use, environmental impacts and health. 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 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 line 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 is required, but interested candidates who expect to graduate within six months are also welcome to apply. Prior 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 skills in English are required. Knowledge of German is optional.

The position can be filled as soon as possible and is initially funded for three years with the plan of renewal. We offer flexible working conditions in a highly motivated and very international research environment. The salary at a German University is higher than typical in the international context (pay grade TV-L E 13, starting at €4,100/month), opening space for higher scientific productivity. TUM is an equal opportunity employer. Qualified women are particularly encouraged to apply. Applicants with disabilities are treated with preference given comparable qualifications.

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.tb@ed.tum.de. Review of applications will begin July 18th, 2022 and continue until position is filled.

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