



Opportunities
for Talents



Technische Universität München

The Emmy Noether Junior Research Group "Numerical analysis and extensions for optimal transport" at the Department of Mathematics, Technische Universität München invites applications for a position as

Doctoral researcher (75%, 3 years)

starting October 1, 2019 or later.

The position is part of the DFG funded project "Nonsmooth and nonconvex optimal transport problems". Transport networks occur in biology (leaves, blood vessels), technology (circuits, irrigation) and public transportation. Mathematically this is modelled by so-called branched transport problems which are studied in this project with analytical and numerical methods.

Candidate profile:

Ideal candidates have the following profile:

- an outstanding degree in Mathematics, Computer Science or Physics,
- a strong background in at least one of the following fields: optimization, convex analysis, numerical analysis and algorithms, image processing, PDEs and optimal control,
- substantial experience in numerical programming with Python, C/C++, Matlab or similar environments,
- good command of the English language (knowledge of German is not required),
- strong interest in working on (branched) optimal transport

For further information please contact the project leader, Dr. Bernhard Schmitzer (bernhard.schmitzer@tum.de).

What we offer:

We offer an interesting, varied and challenging position within a young, international and interdisciplinary team located at the Garching Campus of the TU München. The position is paid according to the Civil Service rates of the German States "TV-L", E13 (if suitably qualified). The contract is limited to a three year period.

As an equal opportunity and affirmative action employer, TUM explicitly encourages applications from women as well as from all others who would bring additional diversity dimensions to the university's research and teaching strategies. Preference will be given to disabled candidates with essentially the same qualifications.

Applications should include:

- a CV,
- copies of degrees / university transcripts,
- a motivational statement (at most one page) explaining the applicant's interest in the position as well as their relevant skills and experience,
- name and email address of at least one professor that may (upon request by the hiring committee) provide letters of recommendation.

Applications should be sent as a single PDF file to: bernhard.schmitzer@tum.de. Please indicate "Research Position Branched Transport" in the subject line.

The review of applications will begin on July 31, 2019 and continue until this position is filled.

Data Protection: With your application for a position at the Technical University of Munich (TUM) you naturally send us personal data. Please observe our data protection information in accordance with Article 13 of the German Data Protection Law (DSGVO) under <http://go.tum.de/554159> regarding the storage and usage of your personal data as submitted in connection with your application. By sending your application, you confirm that you acknowledge the data protection information of TUM.