



Within the **Chair for Numerical Analysis and Scientific Computing** at the Centre for Mathematical Science of the Technical University of Munich (TUM) there is an opening for a

## PhD Position (75%) in Mathematics

This research position is situated within the project *Numerics of Riemann–Hilbert problems and operator determinants*, which is part of the DFG funded Collaborative Research Centre SFB/TRR109 “Discretization in Geometry and Dynamics”. In this project, we study numerical methods for Riemann-Hilbert problems from mathematical physics and integrable systems in geometry. In particular, we study the preconditioning of Riemann-Hilbert problems by automatic transforms using tools from (discrete) optimization.

### Profile:

As well as an outstanding Master’s Degree in Mathematics or Physics we expect:

- the ability to work independently on a high scientific level
- good command of the English language (German language skills are an advantage!)
- independence, flexibility and the ability to work in a team
- previous experience and knowledge in numerical analysis and of at least one of the following fields: spectral methods, singular integral equations, numerical complex analysis, optimization
- substantial and practical expertise in numerical programming.

Should you require further information please contact the project leader, Prof. Dr. Folkmar Bornemann via email at [bornemann@tum.de](mailto:bornemann@tum.de) or visit the website of SFB/TRR-109: [www.discretization.de](http://www.discretization.de)

We offer an interesting, varied and challenging position within a young, international and interdisciplinary team located at the Garching Campus of the TU München and the opportunity to work in an active, interregional research project funded by the German Research Foundation (DFG).

The 75%-position is paid according to the Civil Service rates of the German States “TV-L”, E13. The contract will initially be limited to 2 years with the possibility for further extension. The current funding period of the project is from July 2016 to June 2020.

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.

### Interested?

Candidates should send their applications including a letter of motivation, C.V., two letters of recommendation, and copies of all relevant examination certificates and academic testimonials in a single pdf file via email to Diane Clayton-Winter. Please indicate “PhD Position B03” in the subject line.

Email address for applications: [clayton@ma.tum.de](mailto:clayton@ma.tum.de)

**Application deadline: November 30th, 2016**