



In the context of the Emmy Noether Junior Research Group

Randomized Sensing and Quantization of Signals and Images (led by Prof. Felix Krahmer),

the research unit M15 *Applied Numerical Analysis* at the Technische Universität München, Department of Mathematics, invites applications for a position as a

**Doctoral Researcher (pay scale 75% TVL E13) or
Postdoctoral Researcher (pay scale 100% TVL E13),**

starting on July 1, 2015, or later.

Research topics of the Emmy Noether group include the mathematical analysis of structured random measurement schemes for phase retrieval, analog/digital conversion, and image processing.

Ideal candidates have

- completed a master's degree/doctoral degree in mathematics, or in computer science / electrical engineering with a focus on theoretical foundations
- strong analytical and numerical skills
- sound knowledge of linear algebra and probability theory
- good command of the English language (written and oral, knowledge of German is not required)
- programming experience in Matlab and/or C/C++

and are interested to contribute to foundational research in the area of randomized methods for signal processing, at the interface of probability theory and numerical analysis. The position comes with reduced teaching duties averaging at most 2 (doctoral position) or 3 (postdoctoral position) weekly hours per semester; classes can be taught in English language.

Interested candidates should contact Prof. Felix Krahmer (felix.krahmer@tum.de). Applications should include

- the applicant's CV
- copies of their university transcripts
- a motivational statement (at most one page) explaining the applicant's interest in Prof. Krahmer's research activities and their skills beneficial for project success
- names and e-mail addresses of at least one (for doctoral researchers) or two (for postdoctoral researchers) faculty willing to provide letters of recommendations directly and confidentially to the selection committee.

TUM is an equal opportunity employer. TUM aims to increase the proportion of women and therefore particularly welcomes applications by women. Applicants with severe disabilities will be given priority consideration given comparable qualifications.

Review of applications will begin on April 23, 2015, and continue until the positions are filled.