

Prof. Dr. Martin Schmidt
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Fachbereich IV
Abteilung Mathematik
Nichtlineare Optimierung



OPEN PHD POSITION AT THE TRIER UNIVERSITY

In the Faculty IV (Department of Mathematics) at the Trier University, the position of a

research assistant

is to be filled as soon as possible. Remuneration is based on salary group E 13 TV-L (75%) and the position is filled for an initial period of up to three years.

The successful applicant will work in the project “Energy efficiency via intelligent district heating networks” in cooperation with academic partners from the TU Berlin and the Fraunhofer Institute for Industrial Mathematics as well as the with the industrial partner Technische Werke Ludwigshafen am Rhein AG. The project is funded by the Federal Ministry of Education and Research.

The focus of the project will be the development of models and optimization techniques for coupled district heating networks. The main idea is to develop algorithms for (discrete-)continuous optimization that control the overall accuracy of the optimization model by exploiting tailored error estimates. The successful applicant will thus work at the interesting interface between optimization and numerics. The developed algorithms will be analyzed theoretically and need to be implemented in a programming language like Python.

We seek excellent open-minded and team-spirited PhD candidates that should have completed their studies at master level in a program with strong mathematical background in optimization.

The prerequisite for employment is a university degree in mathematics (within the meaning of §56 Para. 2 No. 1 HochSchG). Trier University strives to increase the share of women in research and strongly encourages women to apply. Trier University is certified as a family-friendly employer. Provided equal qualifications are demonstrated, applicants with disabilities will be preferred.

Applications with the usual documents (letter of motivation, curriculum vitae, certificates and, if applicable, list of publications as well as a list of courses supervised to date) in a PDF file are requested **as soon as possible** via e-mail to Prof. Dr. Martin Schmidt (martin.schmidt@uni-trier.de).