

The Technical University of Munich offers

Several positions in the PhD program “Advanced Optimization in a Networked Economy”

The Research Training Group (RTG) “Advanced Optimization in a Networked Economy,” funded by the German Science Foundation (DFG) and jointly hosted by the Department of Informatics, the Department of Mathematics, and the School of Management, offers several positions for Ph.D. students starting in April 2022.

About us

We are an international, interdisciplinary and interdepartmental group of researchers working together on challenging projects to develop and apply innovative mathematical methods for efficiently allocating and coordinating resources in modern logistics networks, transportation, and mobility systems. Our collective expertise spans algorithmic game theory, approximation algorithms, combinatorial optimization, inventory management, integer programming, machine learning, market and mechanism design, online algorithms, operations management, operations research, process mining, production logistics, robust optimization, scheduling, stochastic modeling, and supply chain management.

We offer

Students with a background in applied mathematics, computer science, industrial engineering, operations management, operations research, or a related field and a strong interest in interdisciplinary work will be offered a comprehensive study, training, and research program. While working in an interdisciplinary environment, students still pursue the doctoral degree in their respective departments (i.e., informatics, mathematics, or management). Further information is available at our website <https://www.gs.tum.de/en/adone/start/>.

TUM strives to raise the proportion of women in its workforce and explicitly encourages applications from qualified women. Applications from disabled persons with essentially the same qualifications will be given preference.

Your qualifications

We expect an excellent degree in Economics, Computer Science, Industrial Engineering, Management, Mathematics, Operations Research, or a related field. Very good written and verbal communication skills in English are required. German language skills are not needed for this position.

Application process

Applications in English should include:

- Cover letter indicating your motivation and fit for our research program
- CV
- Copies of earned university degrees and transcripts of individual grades
- Writing sample (master thesis or seminar paper)
- One letter of recommendation and the names and e-mail addresses of two additional references (university professors)
- Proof of English language skills (e.g., TOEFL or IELTS)

and be submitted in digital form (one pdf document) to adone@tum.de by **January 9th, 2022**.

Technische Universität München

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