

The Technical University of Munich offers

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

The Research Training Group “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, is now offering several doctoral positions.

### About us

We are an international and interdisciplinary group of mathematicians, computer scientists, economists, and operations 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 operations research, applied mathematics, computer science, 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., computer science, mathematics, or management science). Further information is available at [www.gs.tum.de/adone](http://www.gs.tum.de/adone)

The Ph.D. positions are part-time (75%) and initially limited to three years (extensions may be possible). Payment is based on the Collective Agreement for the Civil Service of the Länder (TV-L). 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 Operations Research, Computer Science, Economics, Mathematics, 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](mailto:adone@tum.de) by **June 30, 2022**. For written applications, we request to submit only copies of official documents, as we cannot return materials after completion of the application process.

### Technische Universität München

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As part of your application, you provide personal data to the Technical University of Munich (TUM). Please view our privacy policy on collecting and processing personal data in the course of the application process pursuant to Art. 13 of the General Data Protection Regulation of the European Union (GDPR) at <https://portal.mytum.de/kompass/datenschutz/Bewerbung/>. By submitting your application, you confirm to have read and understood the data protection information provided by TUM.

Find out more about us at [www.tum.de](http://www.tum.de).