



Deutsche Post Lehrstuhl
für Optimierung von
Distributionsnetzwerken

RWTHAACHEN
UNIVERSITY

Job Offer

Position as Research Associate (Postdoc or PhD level)

**Full-Time (100%),
Entgeltgruppe 13 TV-L**

To strengthen our team, the Deutsche Post Chair – Optimization of Distribution Networks (DPO) is recruiting a research associate on either PhD or postdoctoral level at the earliest possible date. We offer exciting and challenging teaching and research activities (also in the context of industry collaboration with Deutsche Post DHL).

Univ.-Prof. Dr. Michael Schneider

Deutsche Post Chair –
Optimization of Distribution Networks

School of Business and Economics

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Date: 19.01.2021

Our profile:

Teaching and research at DPO is devoted to the development of algorithms for the solution and analysis of planning problems in logistics, especially in transportation, network design, location planning, and warehouse management. For example, we develop decision support tools for the employment of novel transportation technologies (e.g., electric mobility and robotic systems), and we design effective solution methods to solve large-scale realistic instances of difficult planning problems. Our intensive collaboration with Deutsche Post DHL and other industry partners provides a strong application focus for many of the projects. Besides mathematical modeling and classical operational research methods, the methodological focus of the chair lies on the development of metaheuristic algorithms and the application of machine learning techniques to enhance optimization methods. We successfully publish our results in high-quality international journals.

Your duties:

- Active participation in research projects and publication of the results in international journals.
- Supporting the teaching activities of the chair, e.g., giving exercise classes and supervising seminar, bachelor and master theses.

Your profile:

- Prerequisite for the position on the PhD level is an outstanding university degree (or equivalent) in (business) informatics, (business) mathematics, industrial engineering, or business studies with a quantitatively-oriented major (e.g., Operations Research). Prerequisite for the Postdoc position is a doctoral degree in Operations Research or a related subject and knowledge in the areas of combinatorial optimization and logistics planning.
- You have strong programming skills in a high-level language like Java or C++.
- You are proficient in written and spoken English, German skills are a plus.
- You are capable of explaining complex facts in an understandable way.
- You are able to work productively on your own as well as in a team.
- For the PhD position, previous knowledge in the areas of discrete optimization and logistics planning, especially in the implementation of Operations Research methods (metaheuristics) and the use of optimization software (e.g., CPLEX, Xpress-MP, or Gurobi) is a plus. For the Postdoc position, significant experience in the implementation of Operations Research methods is required.
- Knowledge of a scripting language (e.g., Perl, Python), LaTeX typesetting skills, and previous experience in computer administration are a further plus.



Our offer:

- The possibility to be actively involved in the design of the research and teaching activities of the chair.
- The possibility to participate in fascinating industry projects, e.g., with Deutsche Post DHL.
- An open atmosphere in a young and highly motivated team, and a well-equipped workplace.
- The possibility of attending international scientific workshops and conferences.
- Opportunities and guidance to maximize your chances of building a rewarding research career.

The initial contract is for 3 years (starting at the earliest possible date) with the option to be extended. An extension of at least one year is pursued. This is a full-time position. The salary is based on the German public service salary scale (TV-L). The successful candidate has the opportunity to pursue a doctoral degree (or a habilitation for postdocs).

RWTH Aachen University is certified as a "Family-Friendly University". We particularly welcome and encourage applications from women, disabled persons and ethnic minority groups, recognizing they are underrepresented across RWTH Aachen University. The principles of fair and open competition apply and appointments will be made on merit.

Contact and application:

For further information, please contact Prof. Dr. Michael Schneider (schneider@dpo.rwth-aachen.de, +49 (0)241 80 96185). To apply, please email your application including cover letter, CV, research interests, copies of certificates and job references, and an electronic copy of your master thesis or PhD thesis **as soon as possible but not later than February 28, 2021** to Prof. Dr. Michael Schneider. Online interviews will be scheduled starting from March 1, 2021.