

## **Student Research Assistant (HiWi) in the Research Project QuSol Quantum Optimization Solver Kit**

The **Institute of Operations Research (IOR)** at the Karlsruhe Institute of Technology (KIT) is looking for a motivated **student research assistant (HiWi)** to support the **Discrete Optimization and Logistics** research group, led by **Prof. Dr. Stefan Nickel**.

This position is part of an exciting project on *quantum-accelerated solution techniques for mathematical optimization problems in the semiconductor supply chain*.

Your **responsibilities** include:

- Research on general and problem-specific solution methods.
- Support of the development and analysis of mathematical models.
- Evaluation of the potential of quantum computing in mathematical optimization.
- Documentation and preparation of research results.
- Numerical experiments and analysis of results.

Your **profile**:

- Ongoing studies in Mathematics, (Industrial) Engineering, Physics, Computer Science or Computational / Data Science.
- Interest in at least one of the following areas:
  - Operations Research / Mathematical Optimization.
  - Mathematical Modeling.
  - Applied Mathematics.
  - Algorithms and Complexity Theory.
  - Quantum Computing.
- Basic programming experience, ideally in Python.

**Position details:**

- Exciting insights in cutting-edge, interdisciplinary research.
- Opportunities for academic development.
- Flexible working hours by individual arrangement.
- Compensation according to current HiWi rates at KIT.

**Interested?**

Please send your application (CV, transcript of records, certificates) electronically to **Christiane Weste** ([christiane.weste@kit.edu](mailto:christiane.weste@kit.edu)).

For questions about the position, feel free to contact **Felix Broesamle** ([felix.broesamle@kit.edu](mailto:felix.broesamle@kit.edu)).

More about the research project: [qusol.kit.edu](http://qusol.kit.edu)

More about the research group: [dol.ior.kit.edu](http://dol.ior.kit.edu)