



Quantum Technology Laboratories

Quantum Technology Laboratories GmbH (qtlabs) is a Vienna-based company that develops solutions for quantum-communication technology and services with a focus on satellited-based solutions. The declared goal of our team is to pursue the transition from proof-of-concept-experiments to commercial applications of quantum communication. We want to extend our team by filling a

PhD position - Quantum Optical Simulation (F/M/D)

(fulltime, 40 hours/week)

Tasks:

- Modelling and coding of quantum nonlinear-optics process simulations
- Translate (analytical) theoretical descriptions from literature into (numerical) simulations
- Benchmark results against analytical solutions and experimental data
- Independently plan and schedule work
- Document results

Your profile:

- A university degree in Physics or related subject
- Interest in programming/ modelling, experience is a plus
- Background in working with physical optics or optical simulation preferred but not required
- Experience with optical simulation software such as Blender or Zemax is a plus
- You like to learn new things independently
- You like to work in a structured and organized environment
- You are a team player
- Strong communication and presentation skills

We offer:

- An interesting and exciting job in a young company with a positive business culture
- The possibility to be at the forefront of quantum-technological revolution
- Competitive salaries according to qualification and collective labor agreement with the possibility of overpayment, minimum salary per month 2.017,76€
- Flexible working hours and remote work options
- The possibility to conduct a PhD thesis in cooperation with TU Wien
- A friendly and welcoming work environment

We are looking forward to receiving your compelling application including a CV and a cover letter to hr@qtlabs.at.