

IQST Graduate School @Quantum^{BW}

We are looking forward to receiving your application: Please **submit by September 1st, 2024**, to gradschool-application@iqst.org.

This is what makes our graduate school different - and unique

The graduate school in QuantumBW closes the gap between basic research and technology development. It promotes doctoral projects with technological potential, but which are still at a stage of research. And it extends across Baden-Württemberg to build a network of excellent young talent in quantum science and technology – preparing them for a career in science, in the corporate world and to make them bridge builders in between.

PhD project structure

Accordingly, our structure is

1 PhD project = 1 academic partner + 1 industry partner + 1 PhD student

- The academic partner is the supervisor, a professor at a university in Baden-Württemberg (BW), and IQST fellow.
- The industry partner, working at a company in BW, takes the role of a mentor for the PhD candidate, maintains a regular dialogue, introduces the company aspects to the project and opens up company-side support.
- The PhD student is employed by a university or research institute in BW.
- A ≥ 3 months internship at company is obligatory – more is welcome.

We are looking for

- a research topic of academic interest with high technological potential
- project jointly designed and implemented by all partners
- commitment on both sides over entire project and on publication of scientific results regarding to terms of the supervising university

Funding

For **up to 4 years** we grant

- **one PhD position** (according to the DFG rates and usual percentage of respective discipline)
- **20 T€ for direct costs per year**

and expect the assignment of the PhD position **within 6 months** after approval.

Requested commitment by the academic partner

- supervisor is IQST fellow or applicant pending
- active participation of supervisor and student in IQST events

Requested support from the industry partner (depending on respective project)

- continuous mentoring and supervision
- access to infrastructure/training programs
- provision of equipment and components
- project-specific participation opportunities

Review Criteria

What matters in any case

- innovative and pioneering ideas & topics in quantum science and/or technology
- scientific excellence
- significant benefit for application
- strategic relevance for the quantum ecosystem BW
- intensity and added value of collaboration between academia and industry
- extend of commitment/support by industry partner

... and what's favourable, but not mandatory

- *new* collaboration between academia and industry
- individual-creative element - an unconventional idea, something that doesn't cost much time or money and yet gives the project something special, makes the project partners smile again and again and perhaps makes it known far beyond the participants...

For questions about your application, please contact us via gradschool-application@iqst.org.