**Project Application – IQST Graduate School @QuantumBW (max. 5 pages)**

1. Let's start with your passion. What is the project about? Summary (~0.25 page)

Give a short, generally understandable description of the project idea

1. Let’s dive deep and become strategic. Content and strategic objectives (~0.5 page)

In what sense contributes the project to the frontiers of quantum science and transfer to applications? What are the relevant scientific questions and the innovation potential to which the project is aimed. What makes the project unique? Which strategic relevance has the project for the quantum ecosystem in BW?

1. Look around: Current status of research (~0.5 page)

Please summarise the current status in the context of international research in the field. Cite the relevant publications according to the format given below.

1. Look back: Own preliminary work (~0.5 pages)

Describe your contribution to the research in the field so far. Cite all relevant own publications that are citable. Please avoid papers in preparation. If papers are available on the arXiv please give the respective reference.

List of most relevant and published preliminary work

Please include all relevant authors of your own papers.

[1] E. Tiesinga., Phys. Rev. A **46**, 1167 (1992).

[2] S. Giovanazzi, A. Görlitz, and T. Pfau, Phys. Rev. Lett. **89**, 130401 (2002)

[3] M. [Dressel](http://www.pi1.physik.uni-stuttgart.de/LiteraturPerson_d.php?AutorenID=1), B. [Gorshunov](http://www.pi1.physik.uni-stuttgart.de/LiteraturPerson_d.php?AutorenID=4), K. [Rajagopal](http://www.pi1.physik.uni-stuttgart.de/LiteraturPerson_d.php?AutorenID=190), S. Vongtragool, and A. A. [Mukhin](http://www.pi1.physik.uni-stuttgart.de/LiteraturPerson_d.php?AutorenID=70)
arxiv: 0110340 (2001)

5. Now it’s your partners’ turn. Status of applications/prototypes (~0.5 page)

Please describe where the industrial collaborator currently stands, which fundamental issues need to be solved for an application/product and how the academic side can contribute to that. Which competitors are there? Where do they stand? In what way is the application technologically/socially relevant?

1. Look at each other: Why are the two partners the best fit?

Please answer every of the following questions separately: What indispensable and unique qualities do only the respective partners bring to the table? Why can the project not be completed by the institution/industry partner alone? What does the student learn from the industry/academic partner?

1. Make two plans. Project plans and milestones

Scientific plan: Describe how the objectives of the project are to be achieved. Define milestones for the next 4 years.

Management plan: How will the collaboration realised in practice? How will the continuous mentoring be organized? When and how long will the PhD candidate be working at the company?

1. What do you need? Funding

*Please quantify the required funding/year*

* *Staff* (according to the DFG rates and usual percentage of respective discipline)
* *direct costs*
1. Description of tangible/intangible support by industry partner

*Describe, how the industry partner supports the project by access to infrastructure, training programs, provision of equipment and components and/or other project-specific contributions.*

1. Be unconventional and creative, if you like. Do something special.

*Describe a little something that you always look forward to when there are tough phases - nothing expensive or time-consuming - and perhaps something that many people learn about your project - during your work or once it's done...*

1. Almost done! Look at your work once again – and give it a name. Project Title

*title*

1. Last but not least – you. Applicants

|  |  |
| --- | --- |
| Academic Partner | Industry Partner |
| Name | Name |
| Affiliation | Affiliation |
| e-mail address | e-mail address |