

PhD Positions Available

If you are interested in this opportunity or would like to find out more, please contact Dr Sergei Slussarenko (s.slussarenko@griffith.edu.au) and Dr Nora Tischler (n.tischler@griffith.edu.au). We value diversity and encourage people of all backgrounds to apply.



Quantum Optics and Information Laboratory

QOIL is a world leading quantum photonics laboratory. Since 2006 we have published 19 articles in Nature and Science suite of journals. We are part of the [Centre for Quantum Dynamics](#) at [Griffith University](#) and a key member of the Australian Research Council Centre of Excellence for Quantum Computation and Communication Technology ([CQC2T](#)).

At QOIL you will be part of a young and dynamic team, with opportunities to collaborate with experimentalists and theorists at Griffith University and other institutes in Australia and overseas. You will be tightly integrated into the Australian and international community and enjoy active networking through travel programs, conferences, and lab exchanges.

Projects

We are looking for **two motivated PhD Students** to undertake experimental research on the topics of

- Development of novel photonic quantum states
- Nonlocality in quantum networks
- Loss- and noise-tolerant quantum communication
- Quantum machine learning
- Photonic quantum information processors

Scholarships

Successful PhD applicants will receive a tax-free stipend of **AUD28,500 (~€19,000)** per year for three years to cover for living expenses. Top-up scholarships are also available.

To be able to qualify for the scholarship and commence, you must have a Masters or equivalent qualification. However, future graduates should contact us to discuss enrolment options.

Location

Our lab is located in the green, natural surroundings of Griffith University's Nathan campus inside Toohey Forest. Brisbane is the third largest city of Australia, with a laid-back atmosphere and warm, subtropical climate. It is close to major tourist destinations, world-class surfing beaches, vibrant nightlife, and rainforest hinterland.

Requirements

To be successful in this role, you must

- be able to collaborate and work effectively as a team member;
- have good work ethics and a desire to learn;
- have a foundation in, and strong interest in, quantum physics.

Prior experience in quantum optics experiments would be beneficial, but not necessary.

Visit us at <http://prydelab.net> or <https://www.griffith.edu.au/cqd> or <https://cqc2t.org>

