



Laboratory of Quantum and Nano-Optics
Institute of Physics, Faculty of Basic Sciences, EPFL

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Open PhD position – Diamond nanostructures for UV photonics

A fully funded PhD candidate position is available in the Laboratory for Quantum and Nano-Optics (EPFL) with joint supervision by Prof. Niels Quack from the Photonic Micro- and Nanosystems Laboratory at the University of Sydney (Australia), and in collaboration with the University of Ghent (Belgium)

The goal of the project is to fabricate single-mode diamond waveguides and photonic integrated circuits for performing resonant Raman spectroscopy in the UV domain, with applications in molecular sensing.

The PhD thesis will have a main component in **clean room micro- and nano-fabrication**, with additional tasks comprising photonic design and simulation, nanostructure characterisation, spectroscopic measurements and data analysis.

Essential for this position is a great interest and prior experience in microfabrication, and ideally in integrated photonics.

If you are qualified and interested, please apply to the position by email to Prof. Galland (chris.galland@epfl.ch) with your CV, transcripts and motivation letter.

Desired start date: between March and June 2022.