



**TECHNISCHE
UNIVERSITÄT
WIEN**
**VIENNA
UNIVERSITY OF
TECHNOLOGY**

**Institut für Photonik und
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Ph.D. Position in Nano-Photonics

The position "Quantum Dot Light Emitters" is available for a highly motivated student in physics or electrical engineering with a good knowledge of photonics and semiconductor physics. Experimental expertise in spectroscopy is desirable.

The successful applicant will join a collaborative research program ...CoQuS... Our group has a very successful program for development of Quantum Cascade Lasers and THz photonics. We try to realize quantum optical concept in solid state systems by using self assembled semiconductor quantum dots. The main interest will be performing quantum optical experiments with single quantum dots. For this confocal microscopy and ultrafast spectroscopy will be combined.

At the TU-Wien epitaxial growth facilities to produce quantum dots and a fully equipped cleanroom is available to fabricate semiconductor quantum devices. The measurement set-ups for the optical control of semiconductor nanostructures include femtosecond spectroscopy, ultrafast laser, and confocal microscopy.

Contact:

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