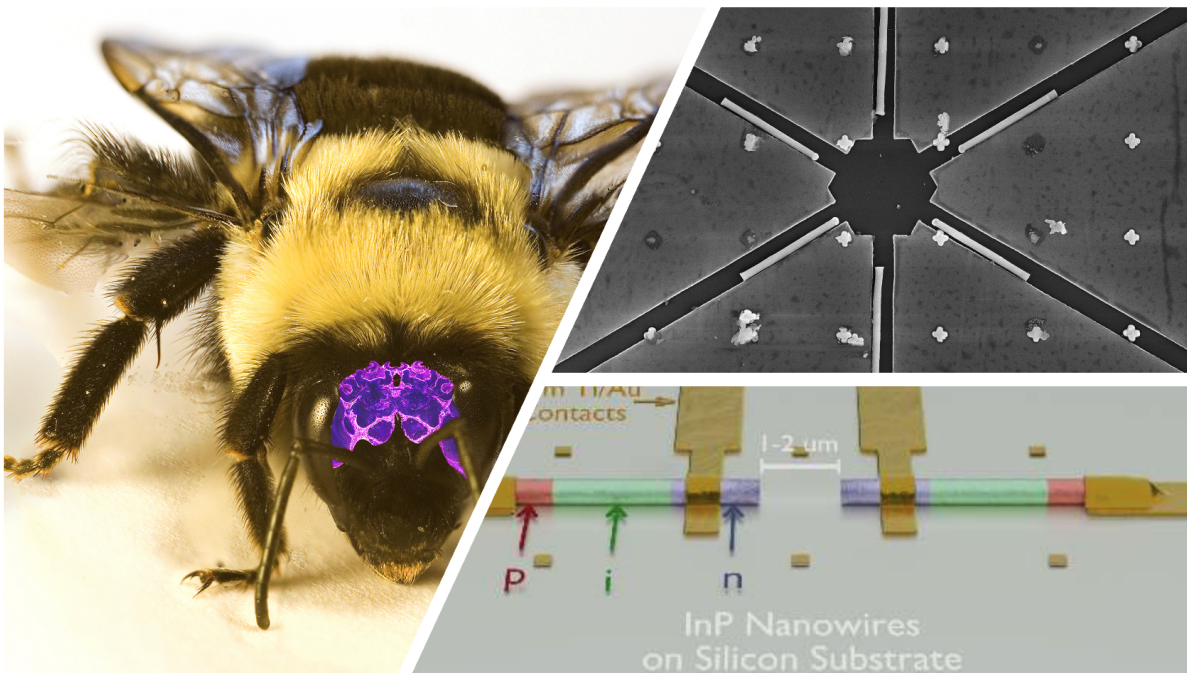


# Masters project in QDev:

## Insect brain-inspired nanophotonics for nanoscaled AI

A new Masters project focusing on experimental investigation of insect brain-inspired nanowire circuitry for neuromorphic computing is available in the Center for Quantum Devices (QDev). In this project you will become part of a European team ([www.insectneuronano.lu.se](http://www.insectneuronano.lu.se)) composed of neuroscientists, roboticists, chemists and physicists – all in the endeavor to achieve nanoscaled neuromorphic computing with low energy consumption. Together with collaborators, your main focus will be to explore nanophotonic circuitry for nanowire-to-nanowire communication and nanowire-based memory components. Read about related experiments here: <https://arxiv.org/abs/2305.00741>.



You will be taught how to work as an experimental condensed matter physicist and use state-of-the-art techniques such as nanolithography, electronic measurements and electron microscopy. If this sounds interesting contact **Jesper Nygård** ([nygard@nbi.ku.dk](mailto:nygard@nbi.ku.dk)) or **Joachim Sestoft** ([joachim.sestoft@nbi.ku.dk](mailto:joachim.sestoft@nbi.ku.dk)).