Job posting

Type of position

- [ ] scientific
- [ ] administrative

Target group

- [×] graduates
- [×] post docs
- [ ] other

Title

8 PhD / Postdoctoral Positions in Nano & Quantum Optics

Institution

Abbe Center of Photonics, Friedrich-Schiller-University Jena; Germany

The laboratory for Nano & Quantum Optics is part of the Max Planck School of Photonics (www.maxplanckschools.de). Therefore, exceptional PhD applicants might also be offered to enter the Max Planck School's elite program, providing truly superior support to future academic careers. The lab's research targets the control of light at the single photon level and at the nanoscale using nanostructured materials and ultrafast nonlinear optical effects. The lab, which is a part of the Institute of Applied Physics and the Institute of Solid State Physics at the Faculty of Physics and Astronomy of the Friedrich Schiller University Jena (Germany), covers a broad range of research fields in experiment, technology, and theory to study interaction of light with microstructured and nanostructured matter, employing advanced methods for nanofabrication, experimental characterization, and numerical modelling.

Position

The laboratory for Nano & Quantum Optics of the Abbe Center of Photonics has a number of open positions for PhD candidates and postdoctoral researchers, which provide ideal career opportunities for suitable candidates within the graduate school of the Abbe School of Photonics (www.asp.uni-jena.de):

- PhD: Controlling light emission by dielectric nanoantennas
- PhD: Machine learning-based design of metamaterials & Metamaterial-based machine learning systems
- PhD: Strong coupling to quantum emitters by plasmonic superfocusing
- PhD: Spatiotemporal dynamics of nano-scale light-matter interactions in metasurfaces & atomic membranes
- PhD/Postdoc: Nanoscale integrated quantum photonics
- PhD/Postdoc: Quantum imaging and sensing
- PhD/Postdoc: Quantum communication and single photon sources
- Postdoc: Quantum photonics

We are constantly looking for talented young scientists, who would like to contribute to cutting edge research projects on
quantum photonics at the nano scale. Currently there are openings for PhD projects and postdoctoral projects on the above topics, but other topics motivated by the interest of potential candidates can be discussed as well.

The offered full-time positions are initially limited to 3 or 2 years (PhD/Posdoc), an extension is possible. Severely handicapped people are given preference in case of equal qualifications, aptitude and professional qualifications.

**Responsibilities**


Job call: [https://www.asp.uni-jena.de/open_positions](https://www.asp.uni-jena.de/open_positions)

**Requirements**

Required qualification: Master or Diploma in physics, photonics, electrical engineering, or comparable

**Application procedure (deadline etc.)**

Please direct your applications to our central online application system at [https://apply.asp.uni-jena.de](https://apply.asp.uni-jena.de) and make sure to indicate that you are applying to the "Nano and Quantum Optics Lab". Applicants for postdoctoral positions should also use the PhD application window of the online system. All applications will be evaluated continuously until all open positions are filled.

**Contact**

Details about the laboratory for Nano & Quantum Optics and on the open positions can be found at [www.iap.uni-jena.de/nano+quantum+career](http://www.iap.uni-jena.de/nano+quantum+career). If you have specific questions about joining our lab, please contact either of us:

- Falk EILENBERGER: falk.eilenberger@uni-jena.de and [www.acp.uni-jena.de/eilenberger](http://www.acp.uni-jena.de/eilenberger)
- Thomas PERTSCH: thomas.pertsch@uni-jena.de and [www.acp.uni-jena.de/pertsch](http://www.acp.uni-jena.de/pertsch)
- Frank SETZPFANDT: f.setzpfandt@uni-jena.de and [www.acp.uni-jena.de/setzpfandt](http://www.acp.uni-jena.de/setzpfandt)
- Isabelle STAUDE: isabelle.staude@uni-jena.de and [www.acp.uni-jena.de/staude](http://www.acp.uni-jena.de/staude)

Please send general requests concerning the application procedure to phd-asp@uni-jena.de