

The Chair for Applied Physics is a leading research facility in quantum optics, polaritonics, and nanostructured opto-electronic devices. We operate the Gottfried Landwehr Laboratory for Nanotechnologies, a 550 m² clean room facility equipped with a complete semiconductor technology line, including epitaxial growth as well as nanostructure fabrication and characterization. Our research is conducted within numerous national and international projects throughout collaborations with other universities, research centers and the industry. We are looking for

PhD and Postdoc candidates in Growth and nanofabrication of prepositioned quantum dots as scalable entangled photon sources

Requirements

- Master's degree in physics, nanotechnology, material science or similar.
- Experience working in a Cleanroom environment is a plus.
- Knowledge on quantum physics, quantum optics and solid-state physics.
- Experience in semiconductors, quantum dots, quantum optics, photonics or AMO physics, preferred.
- Excellent English language skills, German language is a plus.

To Work on

- Optical and quantum optical spectroscopy of quantum light sources
- Semiconductor crystal growth, fundamental characterization and nanofabrication.
- Development of a key resource for scalable photonic quantum information technologies.

What we offer

- A position for a duration of 3 years with a possible extension of 1 year.
- Payment based on the German TV-L scale.
- The opportunity to join a strong interdisciplinary multi-national team of researchers with a shared interest in quantum physics and semiconductors.
- Working with a state-of-the-art technological infrastructure.
- Mentoring and career development opportunities.
- Possibility to contribute to high-impact scientific publications.

How to apply

Please send your application including your cover letter, CV, transcript of records and certificates, list of publications and recommendation letters in one single pdf file (no more than 10MB) to Lorena Loyola at (lorena.loyola-aguilar@uni-wuerzburg.de).

The University of Würzburg is an equal opportunity employer. All qualified applicants will be considered for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or age.