



Applications are invited for a

Doctoral Researcher Position (m/f)

at the Institute of Solid State Physics, Friedrich Schiller University Jena, within the field of

"Semiconductor Nanowire Photonics"

starting from **Aug. 1st, 2019 or later**. Semiconductor nanowires are ideal tools for the investigation of the fundamental limits of one-dimensional optoelectronic and photonic devices. Our research focuses on the modification and functionalization of single semiconductor nanowires in order to tune the optical properties for novel nanophotonic devices. This includes processes such as ion implantation of optically active dyes, milling, coupling with plasmonic nanostructures, or applying external fields. Thus, a detailed characterization of the structural and optical properties of such modified single semiconductor nanowires need to be investigated, for example by means of electron microscopy techniques, photoluminescence or other techniques, within the frame of this doctoral research position.

Requirements:

- A Master's degree (or equivalent) in physics or materials science.
- Readiness and enthusiasm to do experimental work.
- Highly self-motivated and creative personality.
- Capacity for teamwork.
- Excellent written and oral communications skills in English.

We offer:

- A doctoral researcher position as well as generous research funding environment, for example, including travel allowances to international partners
- Comprehensive mentoring program of hard and soft skills
- A communicative atmosphere within a scientific network providing top-level research facilities and training program, including participation in international and national conferences, summer schools, workshops and/or research stays at international partners.
- The place of work is Jena, Germany, a young and lively university town with dynamic business activities, successful scientific centers of innovation, and a vibrant cultural scene around a university with a rich tradition.

The position is initially limited to 3 years, extensions may be possible. The pay scale follows the wage agreements for public employees of federal German states (depending on the qualification up to TVL-E13, half position with the possibility to pile-up). Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

Applications should be written in English. The application deadline is **June 20th 2019**. Applications are submitted exclusively via e-mail to: Carsten.ronning@uni-jena.de. For more information on the position, feel free to contact Prof. Carsten Ronning, Helmholtzweg 3, 07743 Jena, Tel:+49-3641-947300; further details also on www.nano.uni-jena.de

Selected applicants may be invited to a recruitment meeting in Jena, Germany.

Please also note the information on the collection of personal data on:
www.uni-jena.de/Universität/Stellenmarkt/Datenschutzhinweis