



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

"Ion beam processing of modern materials"

starting from **Aug. 1st, 2019 or later**. Ion beam technologies are standard tools in semiconductor industry for e.g. precise doping, enabling modern computer processors, which need multiple of ion irradiation steps. New semiconductors, such as β -Ga₂O₃, or other modern materials, such as phase-change materials and correlated electron oxides, are promising candidates for novel electronic and photonic devices – especially, if the properties can be tuned via ion beam irradiation. Thus, the damage formation, doping and recovery processes of such modern materials need to be investigated in detail, for example by means of in-situ electrical or mechanical measurements and accompanying simulations, 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**