



Applications are invited for a

Doctoral Researcher Position (m/f)

at the Otto Schott Institute of Materials Research, Friedrich Schiller University Jena

“Topo-chemical tailoring of optoelectronic activator precipitation in disordered materials”

Part of the ERC-funded initiative “UTOPES – Unifying concepts in the topological design of disordered materials”, the project aims for deriving tools for knowledge-based tailoring of dopant precipitation in gas- and liquid-phase derived oxide layers. Such layers are to be designed for specific opto-electronic performance, for example, for light-driven electric transport, Faraday rotation and/or photochemical activity. The highly experimental work program involves both materials synthesis and characterization, using modern spectroscopic and microscopic tools.

Requirements:

- A Master's degree (or equivalent) in e.g., materials science, polymer chemistry, solid state physics, solid state chemistry, mineralogy or a related discipline; candidates expected to earn their degree before August 2018 are welcome to apply.
- Solid knowledge of materials synthesis, preferably solid state synthesis of hybrid and inorganic materials, glass synthesis, material functionalization and use in optics, photonics, electronics, life sciences or other areas.
- Readiness and enthusiasm to play an active and collaborative role within the ERC-UTOPES research team and all members of the group.
- Highly motivated and creative personality with an interest to shape one's own thesis project.
- Excellent written and oral communications skills in English.

Training and hands-on experience on one or more of the following areas is highly desired:

- Initial training /experience in characterization and analytical techniques such as fluorescence spectroscopy, XRD, thermal analysis (DSC, DTA, STA, TMA), Raman spectroscopy, Brillouin spectroscopy, FTIR spectroscopy
- Rietveld refinement of XRD data

We offer:

- A doctoral researcher position (TV-L E13 - salary agreement for public service employees, 50%) with funding from Sep. 1, 2018, until August 30, 2021, as well as generous research funding, for example, including travel allowances
- Comprehensive mentoring program with supervision by a team of expert advisors
- 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.



- 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.

Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

Applications should be written in English. The application deadline is **31.07.2018**. Applications are submitted exclusively via e-mail to: glas@uni-jena.de

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

For more information on the position, feel free to contact Prof. Dr.-Ing. Lothar Wondraczek (lothar.wondraczek@uni-jena.de). Further details: <http://www.glas.uni-jena.de>