



Open position for a PhD student in the frame of the DFG Research Training Group 1952

Metrology for Complex Nanosystems

Topic: Correlative atomic-force microscopy and Raman spectroscopy of organic molecules on GaN surfaces

Temporary part-time position (3 years, 75 %), salary level TVL-E13

The position will be assigned to the Institute of Semiconductor Technology (Prof. Dr. Tobias Voß), being part of the Laboratory for Emerging Nanometrology (LENA).

Closing date for applications: 20.03.2019 (or until the position is filled).

Job descriptions: (1) Design and fabrication of hybrid organic/inorganic samples (organic molecules on GaN-based substrates); (2) Correlative AFM/Raman spectroscopy analysis of hybrid samples; (3) Developing concepts for SI-traceable 3D standards for confocal Raman spectroscopy in close collaboration with the German National Metrology Institute PTB; (4) Participation in the program and activities of the DFG Research Training Group 1952 "Metrology for Complex Nanosystems" NanoMet

Job qualifications:

- A very good Master of Science degree (or equivalent) in electrical engineering, physics or a closely related discipline
- Substantial knowledge and experience in optical spectroscopy or atomic-force microscopy of solid state materials and/or organic molecules
- Excellent communication skills in spoken and written English
- Creativity, positive attitude, and perseverance

Employment: The entry date is as soon as possible, and the duration is initially limited to 3 years. Depending on the fulfillment of personal requirements, the remuneration is based on the salary level TV-L E13, 75%. International applicants may have to successfully complete a visa process before hiring can take place. We are an equal opportunity employer and explicitly encourage women to apply. Preference will be given to disabled applicants with equivalent qualifications.

Disabled persons are required to include a copy of proof concerning their degree of disability.

Application Process:

Applications should be exclusively sent by e-mail to lena@tu-braunschweig.de (Silke Feldhusen/Prof. Dr. Tobias Voß), and must contain the following documents:

- Motivation Letter
- Curriculum Vitae including complete address, phone number, email address, educational background, language skills, and work experience
- Copies of bachelor and master diploma and transcript of grades (and English translation if the original documents are not in English)

All documents must be provided as a single PDF file. Personal data and documents relating to the application process will be stored electronically.

Further information can be obtained from: Prof. Dr. Tobias Voß, Tel.: +49 531 391 65440