Job advertisement

Vacancy ID: 204/2021
Closing date: 30 July 2021

FRIEDRICH-SCHILLER-
UNIVERSITÄT
JENA

Friedrich Schiller University is a traditional university with a strong research profile rooted in the heart of Germany. As a university covering all disciplines, it offers a wide range of subjects. Its research is focused on the areas Light—Life—Liberty. It is closely networked with non-research institutions, research companies and renowned cultural institutions. With around 18,000 students and more than 8,600 employees, the university plays a major role in shaping Jena's character as a cosmopolitan and future-oriented city.

The Institute of Physical Chemistry within the LPI seeks to fill the position of a

Postdoc for multimodal nano-spectroscopy (m/f/d)

commencing at the earliest possible date.

The "Leibniz Center for Photonics in Infection Research" (LPI) in Jena is an open user center where photonic solutions for diagnostics, monitoring and experimental therapy in infections are researched and developed into functional solutions with industry. The LPI was jointly applied for by the Leibniz Institute for Photonic Technologies Jena e.V. (Leibniz-IPHT), the Leibniz Institute for Natural Product Research and Infection Biology - Hans Knöll Institute (Leibniz-HKI) as well as the University Hospital Jena and the Friedrich Schiller University Jena under the patronage of the Leibniz Association. The Postdoc for multimodal nano-spectroscopy researches methods that enable to investigate the direct interaction of pathogens with cell membranes and is central to the fundamental research for novel molecular diagnostics at the LPI.

Your responsibilities:

- Setting up and maintaining a multimodal nanoscopy (near-field) system combining vibrational spectroscopy and scanning probe microscopy
- Investigation of nanoscale structural changes (via infrared, Raman spectroscopy) of pathogens at a single particle level
- Construction and adaption of bio-compatible sample stages compatible with other diagnostic systems at the LPI

Your profile

- A PhD in natural sciences or engineering with a specific background in instrumentation is essential
- A strong background in either vibrational spectroscopy and/or scanning probe is a distinct advantage
- Experience related to bio-medical specimen is advantageous.

We offer:

- An exciting research field and varied scope of activities with creative freedom
- Interdisciplinary research at the interface between biology, medicine, optics, and data science
- Excellent equipment and infrastructure
- A comprehensive further and continuing education programme and individual qualification and development measures
- Remuneration based on the provisions of the Collective Agreement for the Public Sector of the Federal States (TV-L) at salary scale 13 — depending on the candidate's personal qualifications—, including a special annual payment in accordance with the collective agreement.

The advertised position is limited to 26 February 2026.

This is a full-time position (40 hours per week).

Candidates with severe disabilities will be given preference in the case of equal qualifications and suitability.

Further information: Prof. Dr. Volker Deckert, e-mail: **volker.deckert@uni-jena.de**

Are you eager to work for us? Then submit your detailed application by email (one PDF file), stating the vacancy ID 204/2021 by 30 July 2021 to:

sophie.thamm@uni-jena.de

For further information for applicants, please also refer to www4.uni-jena.de/stellenmarkt_hinweis.html (in German)
Please also note the information on the collection of personal data at www4.uni-jena.de/en/jobs_information_collecting_personal_data.html