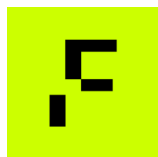


Freie Universität Berlin



Who We Are The Heineken group explores novel functional materials, like thin films of nanoporous metal-organic frameworks (MOFs), and their physicochemical properties. By state-of-the-art spectroscopy techniques, the understanding of the interactions at the molecular level is enhanced. The focus is on the diffusion and adsorption of guest molecules in the pores, ion conduction and (opto)electronic properties of these modern functional films as well as their applications, e.g. for molecular separation and as unique sensors. "Smart" materials with remote-controllable properties, especially by means of light, are also being prepared and explored. <https://www.bcp.fu-berlin.de/chemie/chemie/forschung/PhysTheoChem/agheinke/index.html>

Research assistant (praedoc) (f/m/d) (DM-940)

Department: Department of Biology, Chemistry, Pharmacy contract duration: limited to 4 years Salary / pay grade: E 13 TV-L FU Working hours: 67 % Requisition ID: 940

Application deadline: 23.11.2026

City: Berlin; Starting date (earliest): At the earliest possible; Duration: limited to 4 years; Remuneration: Salary grade E 13 TV-L FU; Reference number: 940; Closing date: 23/11/26

Tasks

What You Can Expect in Your New Role

Nanoporous thin films of metal-organic frameworks (MOFs) will be prepared and investigated. The focus is on the physicochemical properties of the thin films and the interaction with the guest molecules in the pores. The focus is on per- and polyfluorinated alkyl compounds (PFAS).

In particular, the uptake and mass transport in the pores, i.e. diffusion, will be investigated using various techniques, such as quartz crystal microbalance, infrared and Raman spectroscopy.

The work of this PhD project will be carried out within the framework of the CRC-1349 "Fluorine-Specific Interactions". The call and hiring are subject to the approval of the third funding period from 2027-2030 by the DFG at the end of November 2026.

Requirements

Key Requirements

Completed university degree (Master/Diploma) in chemistry, physics, materials science, chemical engineering, or a related subject

Desirable

Experience in one (or more) of the following areas would be beneficial: metal-organic frameworks; adsorption and diffusion; Infrared and Raman spectroscopy and/or quartz crystal microbalance

1. A strong motivation for research and good experimental skills
2. Excellent written and oral English skills. In addition, German language skills would be an advantage, but are not required.
3. Organizational skills
4. You should have the ability to work both independently and in a team.

What we offer

Benefits and Other Advantages

- Modern workplace in the leafy suburb of Dahlem
- Job security
- Salary in line with the collective agreement for the civil service at the state level (TV-L FU), plus additional one-off annual payment
- Flexible working hours and mobile working by arrangement, where possible
- The compatibility of work and family life
- Thirty days of vacation (based on a five-day working week)
- Office closed on December 24 and December 31
- Numerous training and continuing education options for professional and personal development
- Opportunity to participate in University Sports Center courses and the health promotion program
- Free parking close to the office and good public transportation connections
- Discounted "Job Ticket" for public transportation
- Free use of the Freie Universität library system
- Employee discount in the cafeteria
- Exclusive deals for products and services through Corporate Benefits

Application

If you are interested in what we have to offer,

then you can send your application materials to us directly. Simply submit your application **exclusively** via our career portal by clicking the "Apply now" button. Unfortunately, we cannot consider applications by post or by e-mail.

You can also get in touch with Mr. Prof. Dr. Lars Heinke (lars.heinke@fu-berlin.de).

Please note

Freie Universität Berlin is an equal opportunity employer.

More information at <https://stellenticket.de/208329/BUA/>
Offer visible until 23/11/26

