



The **Department of Chemistry, Biochemistry and Molecular Biology of the Faculty MIN** invites applications for employment as:

## **ELECTRON CRYO-MICROSCOPY-SUPPORT (M/F/D)**

**- SALARY LEVEL 13 TV-L -**

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The position commences as soon as possible and is permanent. This position is also suitable for part time employment.

The Central Facility „Electron cryo-microscopy“ (CryoEM) at the Centre for Structural Systems Biology (CSSB) Hamburg, a multi-user-facility, provides essential structural information for research groups of the UHH and other research groups participating in the CSSB co-operation. These insights are of fundamental importance for Bachelor, Master and doctoral theses as well as for publications. The facility currently comprises five electron cryo-microscopes: two Titan Krios instruments with phase plate, energy filter, K2/3 and Falcon 3 direct detectors, a Talos Arctica with phase plate and Falcon 3 direct detector, a Talos L120C and an Aquilos FIB cryo-SEM for preparing lamellae of vitrified cells plus auxiliary equipment to complete the workflows. Independent scientific research in the area of structural and cell biology, especially in the field of infection biology, as part of scientific collaborations and involvement in electron microscopy method development for structural biology applications are highly encouraged.

### **RESPONSIBILITIES:**

The post holder will have responsibility for ensuring the day-to-day running of the electron microscopes and of the related auxiliary and preparatory equipment to the level of optimal system performance at the Facility in accordance with the Senior Staff Scientist CryoEM.

This includes initial fault diagnosis, participation in repair and maintenance work, coordination with home technology, installation and update of the data collection software (both manufacturer provided and academic alternative developments) in collaboration with the Facility's data processing scientist.

As part of the team, the post holder will assist with the establishment, optimisation and expansion of dedicated workflows for the different cryoEM modalities (in particular single particle analysis and tomography) including the regular implementation of significant new developments. A particular local emphasis is put on correlative microscopy, and close interaction with the Advanced Light and Fluorescence Microscopy Facility at CSSB is desired.

Another responsibility of the job holder is to support the other staff members with the development and implementation of the training and induction concept for academic users.

## REQUIREMENTS:

A university degree in chemistry, biology, physics or another relevant subject

## REQUIRED SKILLS AND PERSONAL QUALITIES:

- sound research experience and knowledge in electron cryo-microscopy, and the corresponding underlying theoretical and technical principles (e.g. electron optics, vacuum systems etc.) and procedures
- extensive knowledge of the relevant control software of electron microscopes
- solid experience in fault finding of complex electron microscopes and in user training for electron microscopic and auxiliary equipment
- excellent English language skills (both written and oral)
- good basic understanding of cell biology and experience in infection biology and correlative microscopy methods are desirable
- willingness to share knowledge
- good team player
- the ability to communicate effectively with a wide range of people
- very good organisational and interpersonal as well as negotiating skills (when dealing with industrial partners)

The Free and Hanseatic City of Hamburg promotes equal opportunity. As women are currently underrepresented at this salary level at Universität Hamburg according to the evaluation conducted under the Hamburg act on gender equality (Hamburgisches Gleichstellungsgesetz, HambGleiG), we encourage women to apply for this position. Equally qualified and suitable female applicants will receive preference.

We explicitly encourage persons with an immigrant background to apply.

Equally qualified severely disabled applicants or applicants with equivalent status will receive preference.

For further information please contact Prof Dr Kay Grünewald by email on [corinna.dahnke@cssb-hamburg.de](mailto:corinna.dahnke@cssb-hamburg.de).

The interviews are planned to take place between 04 and 06 June 2019.

Please send your complete application **including the reference number by 10.05.2019** to:

**Universität Hamburg**  
**Stellenausschreibungen**  
**Reference nr. 602/4**  
**Mittelweg 177**  
**20148 Hamburg**

Please do not submit original documents as we are **not** able to return them. Any documents submitted will be destroyed after the application process has concluded.