



Faculty/Department: Mathematics, Informatics, Natural Sciences, Chemistry

Seminar/Institute: Biochemistry and Molecular Biology

Universität Hamburg invites applications for a Research Associate in accordance with Section 28 subsection 3 of the Hamburg Higher Education Act (Hamburgisches Hochschulgesetz, HmbHG). The permanent position commences as soon as possible.

It is remunerated at the salary level TV-L 14 and calls for 39 hours per week.

The University aims to increase the number of women in research and teaching and explicitly encourages women to apply. Equally qualified female applicants will receive preference in accordance with the Hamburg Act on Gender Equality (Hamburgisches Gleichstellungsgesetz, HmbGleiG).

Responsibilities:

Duties primarily include teaching and research. Research associates can also pursue independent research and further academic qualifications.

Specific Duties:

The Senior Staff Scientist CryoEM will have responsibility for the operational lead of the central CryoEM Multi-User-Facility at the Centre for Structural Systems Biology (CSSB) Hamburg located at the research campus Hamburg-Bahrenfeld (DESY site). The tasks include setting up, commissioning and maintaining the equipment of the facility which currently comprises five electron cryo-microscopes: two Titan Krios instruments with phase plate, energy filter, K2 / 3 and Falcon 3 direct detectors, a Talos Artica 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.

The post holder will establish, optimise and extend dedicated workflows for the different cryo-EM modalities (in particular single particle analysis and tomography) including 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 primary responsibility of the job holder is to ensure the day-to-day running of the electron microscopes and of the related auxiliary equipment to the level of optimal system performance, enabling world-class science in the area of structural biology. This includes taking the lead in the fault-finding process and performing minor service interventions as needed, the coordination of preventive maintenance and liaising with suppliers and service engineers. The responsibility also includes the line management of two facility staff scientists (focussing on instrument support and user training respectively) and the coordination and prioritisation of their workload.

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.

It is expected that the job holder will participate in teaching in the field of structural and cell biology for 4.5 LVS.

Requirements:

A university degree in a relevant subject plus doctorate in chemistry, biology, physics or other relevant subjects is required. Profound research experience and knowledge in electron cryo-microscopy, and the corresponding underlying technical principles (e.g. electron optics, vacuum systems etc.) and procedures are expected. The job holder will have a hands-on approach to routine maintenance of modern transmission electron microscopes (TEMs). An extensive track record in fault finding will be an advantage. Furthermore, experience in programming and use of relevant software would be advantageous. A good basic understanding of cell biology and experience in infection biology and correlative microscopy methods are desirable. The job holder will engage in training new users and sharing their knowledge. Working as part of a team, the ability to communicate effectively with a wide range of people will be especially important. Very good organisational and interpersonal as well as negotiating skills (when dealing with industrial partners) and excellent English language skills (both written and oral) are prerequisites.

Severely disabled applicants will receive preference over equally qualified non-disabled applicants.

For further information, please contact Prof. Kay Grünewald (phone: +49 40 8998 87700, email: kay.gruenewald@cssb-hamburg.de) or consult our website at http://www.cssb-hamburg.de/open_positions/index_eng.html.

Applications should include a cover letter, curriculum vitae, and copies of degree certificate(s). The application deadline is 21.11.2018. Please send applications to CSSB, Dept. Structural Cell Biology of Viruses, Administration Office, c/o DESY, Building 15, Notkestr. 85, 22607 Hamburg oder per E-Mail to corinna.dahnke@cssb-hamburg.de.

It is planned to hold the interviews in the week 10th to 14th December 2018.