

Postdoctoral position in electron microscopy studies of neuronal membranes and membrane protein complexes

A 3-year position as a postdoc in EM tomography and single-particle cryoEM studies of neuronal membranes is available from November 2016, or as soon as possible after, in the group of Prof. Poul Nissen located at the Department of Molecular Biology and Genetics at Aarhus University (Campus Aarhus). The project is part of the Danish node for neuroscience of the Nordic-EMBL Partnership for Molecular Medicine (DANDRITE) and the BRAINSTRUC research program funded by the Lundbeck Foundation.

Aarhus University has established state-of-the-art cryoEM facilities centered on an operational Titan-Krios microscope equipped with a Gatan K2 Quantum detector that will be available to the project.

The project will be focused on studies of large complexes and network structures of neuronal membranes associated with formation and transmission of action potentials and with a particular focus on the coupled function of ion pumps and ion channels. The candidate must present a significant experience in membrane protein structural biology and preferably electron microscopy on biological samples. The position will have a main focus on tomographic studies of large membrane protein complexes in native membranes or native membrane nanodiscs. The position will also involve teamwork with other postdocs and PhD and MSc students on single-particle cryoEM studies of membrane proteins and complexes. The position may prepare for a long-term career in both academia and industry.

Application procedure

Short-listing is used. This means that after the deadline for applications – and with the assistance from the assessment committee chairman, and the appointment committee if necessary, – the head of department selects the candidates to be evaluated. All applicants will be notified whether or not their applications have been sent to an expert assessment committee for evaluation. The selected applicants will be informed about the composition of the committee, and each applicant is given the opportunity to comment on the part of the assessment that concerns him/her self. Once the recruitment process is completed a final letter of rejection is sent to the deselected applicants, including the main considerations emphasized during the selection process.

Formalities and salary range

Science and Technology refers to the [Ministerial Order on the Appointment of Academic Staff at Danish Universities under the Danish Ministry of Science, Technology and Innovation](#). The application must be in English and include a curriculum vitae, degree certificate, a complete list of publications, a statement of future research plans and information about research activities, teaching portfolio and verified information on previous teaching experience (if any). Guidelines for applicants can be found [here](#). Appointment shall be in accordance with the collective labour agreement between the Danish Ministry of Finance and the Danish Confederation of Professional Associations. Further information on qualification requirements and job content may be found in the [Memorandum on Job Structure for Academic Staff at Danish Universities. \(in Danish\)](#). Salary depends on seniority as agreed between the Danish Ministry of Finance and the Confederation of Professional Associations. All interested candidates are encouraged to apply, regardless of their personal background.

Application deadline: October 21st, 2016.

Applicants are referred to the full text advert, where applications must also be admitted, [via University webpage](#).

Contact information: Professor Poul Nissen, Danish Research Institute of Translational Neuroscience (DANDRITE), Nordic-EMBL Partnership for Molecular Medicine, Department of Molecular Biology and Genetics, Aarhus University, mobile +45 2899 2295, email pn@mbg.au.dk