

## **Postdoctoral fellowship in cell biology using correlative cryo electron microscopy (cryo-CLEM).**

A postdoctoral fellowship position, funded by the Kempe Foundations, are available for a highly motivated cell biologist, with the dedication to work with correlative light and cryo-electron microscopy (cryo-CLEM).

**Project description:** This project is focused on resolving the architecture of cytoskeleton and protein complexes in associated with membranes in cells. The aim is to make use of cryo-CLEM, and to punch the future development of florescence imaging under cryo conditions, cryo lamella preparation from cell culture and cryo electron tomography.

You will work in collaboration between the research group of Linda Sandblad associated to Molecular Infection Medicine in Sweden (MIMS), Umeå Core facility for Electron Microscopy (UCEM) and SciLifeLab cryo-EM facility at the Department of Chemistry at Umeå University. Available for this project is a Titan Krios instrument with both Falcon3 and K2 direct electron detectors, Scios DualBeam SEM with Aquilos-upgraded cryo FIB and a Leica Thunder fluorescence microscope with cryo stage, as well as full access to all further instruments and sample preparation equipment at SciLifeLab cryo-EMUCEM and BICU, see homepage links:

<http://www.mims.umu.se/>

<https://www.umu.se/en/research/infrastructure/umea-core-facility-for-electron-microscopy-ucem/>

<https://www.umu.se/en/research/infrastructure/biochemical-imaging-centre-umea-bicu/>

**Qualifications:** Qualified applicants should have a PhD degree, or be about to receive a PhD, as well as documented experience in one, or several, fields related to the project such as; cell and molecular biology, structural biology, electron microscopy, 3D visualization and image processing. Candidates must be able to carry out independent scientific research work and to write scientific reports and manuscripts. Fluency in written and spoken English is essential. Emphasis will be placed on personal suitability, organizational skills, and ability to work collaborative and together with other lab members, facility staff and other facility users, as well as on genuine enthusiasm for the research area and methodology.

**Application details:** The application should include: (1) CV containing personal contact details, education and list of publications, (2) A brief cover letter including a summary of your research experience (max. 500 words), (3) Your motivation for applying, your suitability for the position and project ideas (max. 500 words), (4) Contact details of two referees. Applicants wishing to know more about the projects are welcome to contact Linda Sandblad for further information. The application must be submitted electronically and all documents should be included in one single file in PDF format. Send to [linda.sandblad@umu.se](mailto:linda.sandblad@umu.se) before 31. January 2020. Incoming applications will be evaluated continuously and the position could start directly or upon agreement.

**Description of the position:** A fellowship is available for 2 years and will be paid to the successful candidate as a tax-free stipend from the Kempe Foundations.

**For further information about this position please contact:**

Linda Sandblad, [linda.sandblad@umu.se](mailto:linda.sandblad@umu.se), phone: +46-709-324936.

<https://www.umu.se/en/research/groups/linda-sandblad/>

**We look forward to receiving your application!**