

Two post-doctoral positions at Chalmers University of Technology, Department of Chemistry and Chemical Engineering, Gothenburg, Sweden

Information about the project

The goal of the project is to study reorganization of molecular components of the biological membranes in response to external chemical stimuli during cell migration.

Post Doctoral Position 1:

The objective is to build the model systems of cell membranes and its compartments to study behavior of individual membrane components while responding to chemical gradient (such as calcium ions gradient). Knowledge and experience with biomimetic materials, such as lipid bilayers, soft-matter physics, biophysics of cell membrane and fluorescence microscopy are advantageous.

Post Doctoral Position 2:

The second project uses biological cells to verify and further extend the inside in the membrane behavior obtained using the model systems. In this project, handling biological cells and extracting particular lipids and cell membrane compartments will be required.

Qualifications:

Knowledge and experience in the following areas is advantageous: optical technique for characterization of biological methods, biophysics of cell membrane, biomimetic materials, soft-matter physics, and fluorescence microscopy. Excellent team-working and presentation skills, as well as fluency in English are required. Knowledge of cell biology is a merit.

Major responsibilities

The successful candidates are expected to perform studies on the project and publish results in the leading scientific journals and conferences. Position also implies taking part in student supervising and teaching. The project will be carried within groups of graduate students and post-docs, thus excellent communication skills and ability to work in the group are required.

Position summary

To qualify for the position of postdoc, you must have a doctoral degree in Chemistry, Physics, Material Science or Biology. The degree should generally not be older than three years. Full-time temporary employment. The position is limited to a maximum of two years (1+1). Chalmers continuously strives to be an attractive employer. Equality and diversity are substantial foundations in all activities at Chalmers.

Application procedure

The application should be marked with Ref 20150156 and written in English. The application should be sent electronically and be attached as pdf-files, as below:

Application: (Please name the document in the e-recruitment system as: APPLICATION, Surname, reference number) – CV, include complete list of publications – Previous teaching and pedagogical experiences – Two references that we can contact.

Personal letter/Qualifications: (Please name the document as: QUALIFICATIONS, family name, ref. number) 1-3 pages where you introduce yourself present your qualifications and describe your future research plans.

– Previous research fields and main research results.

– Future goals and research focus. Are there any specific projects and research issues you are primarily interested in?

Other:

– Attested copies of completed education, grades and other certificates.

Please use the button at the foot of the page to reach the application form. The files may be compressed (zipped).

For questions, please contact:

Assistant Professor Tatsiana Lobovkina, tatsiana@chalmers.se,

+46317726108