PhD student in Medical science Linkoping

Ref BKV-2020-00732

Apply

Skilled and committed employees are a crucial factor in the success of Linköping University. And we need more of them. Our core expertise comes from teachers and researchers, but a successful university requires experienced and motivated employees in many fields. Everyone is important. We need to recruit many new employees thanks to, among all, an expansion in our research activity. We need you here. We look forward to receiving your application!

LINKÖPING UNIVERSITY

Hereby advertises a position as PhD student in Medical science

formally based at the Department of Biomedical and Clinical Sciences (BKV).

Duties

As a PhD student you will primarily devote yourself to your research. As a PhD student you are limited devoted to work with education and administration up to 20 percent of full time.

As a PhD student you will participate in the project: “Identification and characterization of endogenous compounds and synthetic toxins as modulators of voltage-gated potassium ion channels”

Description of the project:

The candidate will use different techniques in molecular biology and electrophysiology to identify endogenous compounds and synthetic toxins that modulate the activity of voltage-gated potassium channels, and study the molecular basis underlying observed effects. Particular focus will be on how to plan and execute electrophysiological measurements of human Kv7 channels expressed in cellular systems and how to analyze such data. The position also entails handling of peptide toxins, surgery of African clawed frog to isolate oocytes, writing of scientific texts, and active participation in seminars and conferences of importance for the project and education.

Qualifications

Qualified to PhD studentships are only those who are or have been admitted to graduate studies.

Prospective candidates should be highly motivated. Prospective candidates should have background knowledge and understanding of the physiological and pharmacological role of voltage-gated potassium channels, principles of electrophysiological techniques to study ion channels, and principles of how ion channels are gated and regulated. Practical experience of injection of mRNA into oocytes from African clawed frog, electrophysiological measurements with the two-electrode voltage clamp technique, and work with voltage-gated potassium channels is required. Strong communication skills in English are required, as well as an ability to work independently in a collaborative setting. Practical experience of work with peptide toxins is a merit.

Appointment time

The appointment will be until further notice for a maximum of one year at a time. A doctoral student may not be employed during a period not exceeding eight years. The total time of appointment must not exceed the equivalent of four years full time research training.

Starting date

By agreement.

Salary

The salary for PhD students is based on the department’s salary scale.
Union representatives
For contact with union representatives see below

Application procedure
Apply for the position by clicking the “Apply” button below. Your application must be received at latest June 3, 2020. Applications and documents received after the date above will not be considered.

Equal Opportunities
Linköping University will continue to develop as an attractive and creative place of work, characterized by equal terms and actively works for equality and diversity.

We look forward to receiving your application!

Linköping university has framework agreements and wishes to decline direct contacts from staffing- and recruitment companies as well as from vendors of job advertisements.

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