

LiU hereby advertises a Postdoctoral Scholarship in Neurodegenerative Diseases

Research environment

The position is within the research team of [Martin Hallbeck](#) at the [Division of Cell- and Neurobiology](#).

Research project

Why do some individuals remain cognitively intact despite aging, while others succumb to Alzheimer's disease? Understanding the mechanisms underlying resilience is crucial for developing precision diagnostics and targeted interventions. Brain-derived extracellular vesicles offer a minimally invasive, cell-type-specific biomarker platform capable of capturing both neurodegenerative and protective mechanisms. This project aims to identify and validate extracellular vesicle signatures associated with resilience and disease progression, providing novel insights into cognitive health preservation.

Qualifications and requirements

Scholarships can only be awarded to foreign citizens with a doctoral degree or equivalent obtained in a country other than Sweden. The date of the doctoral degree must be no more than four years before the application deadline, exceptions are made for e.g. parental or sick leave. The applicant must not have been employed by Linköping University previously.

Scholarship may not consist solely of research collaboration with a mutual exchange of methodological and technical expertise but must also contain a well-defined training element and a qualification plan must be established for the scholarship period.

The applicant must have or be about to receive a doctoral degree in a subject relevant to the research project. The applicant is required to have prior expertise in working with research on extracellular vesicles and their cargo in relation to diseases of the brain. The applicant should have worked with relevant techniques, including EV isolation, EV characterisation, advanced microscopy techniques, qPCR, cell culture and bioinformatic tools.

Starting date

September 1, 2025

Appointment and Conditions

Appointment is initially for one year with a possibility of an extension up to a total time for receiving a scholarship from Linköping University which cannot exceed two years.

The scholarship amounts to SEK 28,500:-/month (tax-free) (~€ 2,650/month).
Funding can be available to participate in conferences.

Essential information about healthcare, insurances etc. can be found [here](#).
Questions are welcome to lisa.dobrosch@liu.se

Application procedure

The following documents (in pdf-format) must be submitted when applying for a scholarship

1. Cover letter, max 1 page, describing your background, research interests and what makes you interested in the fellowship.
2. Qualification plan, max 1 page, describing clearly what qualifications you want to obtain during the scholarship period.
3. CV, max 4 pages, including contact details to three reference persons.
4. Full publication list.
5. Copy of passport, PhD diploma, and MSc transcripts with grades.

The application should be sent electronically to lisa.dobrosch@liu.se. Mark the email with Dnr. BKV-2025-00413 on subject line.

Applications deadline

June 5, 2025