

# LiU hereby advertises a Postdoctoral Scholarship in Experimental Psychiatry

## Research environment

You will take part in research activities at the [Center for Social and Affective Neuroscience \(CSAN\)](#). The [Heilig research group](#) focuses on neurobiological mechanisms underlying affective disorders and alcohol- and drug addiction.

## Research project

You will be part of a project investigating whether temporal interference, a novel, non-invasive method proposed to allow for focal deep-brain stimulation, can appreciably modulate amygdala functioning. Amygdala functioning will be probed using a combination of cognitive-behavioral (e.g., behavioral performance) and physiological indices (e.g., pupil dilation, skin conductance, facial movements) of psychological processes (e.g., threat conditioning and anticipation, emotional experience and recognition) that are dependent on that region. The outcomes of that project will determine the usefulness of temporal interference for research examining the causal involvement of the amygdala in candidate processes, as well as for the development of interventions in psychiatric disorders marked by amygdala alterations.

## 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. 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 must also have demonstrable skills in the communication of scientific findings, as evidenced by first-authored publications in international peer-reviewed journals. The applicant should also possess experience in designing and conducting experiments involving computerized psychological tasks and physiological measures. Specific experience in the use of eye-tracking and in the analysis of eye-tracking data is also a requirement. A specific interest in brain modulation techniques is desirable.

## Starting date

April 1<sup>st</sup>, 2025

## Appointment and Conditions

Appointment is initially for one year with a possibility of an extension for a second year depending on a mutual agreement. The total time for receiving a scholarship from Linköping University can never exceed two years.

The scholarship amounts to SEK 28,500:-/month (tax-free) (~€ 2,650/month). Travel costs to/from Sweden for a scholarship holder will be covered up to a maximum amount. 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](mailto: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](mailto:lisa.dobrosch@liu.se). Mark the email with Dnr. BKV-2025-00159 on subject line.

## Applications deadline

March 26<sup>th</sup>, 2025.