



Postdoctoral scholarship in Post-doc in *in vivo* bioelectronics (Reference number: Dnr ITN-2024-00466)

**at the Laboratory of Organic Electronics, Department of Science and Technology,
Linköping University (Campus Norrköping)**

Linköping University (LiU) conducts world-leading, cross-disciplinary research in fields that include materials science, IT and life science technology. LiU is one of the largest universities in Sweden and today has 27,000 students and 4,000 employees. The students are among the most desirable in the labour market and international rankings consistently place LiU as a leading global university. Read more at <http://www.liu.se>

The Laboratory of Organic Electronics belongs to the Department of Science and Technology and is renowned for its world-leading research on electronic and optical devices based on organic materials. Its primary theme involves the coupling of ions and electrons as signal carriers for applications in organic bioelectronics, printed electronics, organic energy and electrochemical devices, and nanooptics. Currently, the research staff of the Laboratory includes about 80 researchers (professors, senior and junior scientists and PhD students), see <http://liu.se/loe> for detail.

Background and duties:

We are seeking a highly motivated postdoctoral researcher to join our team in the cutting-edge field of organic bioelectronics. The successful candidate will study and become qualified on biologically formed organic electronics *in vivo*, with a particular focus on applications in neurological disorders. This interdisciplinary project offers a unique opportunity to bridge biology and electronics, driving forward innovative approaches to diagnostics and therapies for neurological conditions. If you are passionate about advancing the future of healthcare through bioengineering and neuroscience, we encourage you to apply.

Qualifications and requirements to applicants:

PhD-level education: The ideal candidate has recently completed or is about to complete their PhD in one of the following areas: organic electronics, electrochemistry, bioelectronics, neuroscience, electrical engineering, or organic chemistry.

Motivated and innovative: We are looking for a candidate who is highly motivated to work on innovative research that combines biology with electronics to tackle complex challenges, particularly in the realm of neurological disorders.

Interdisciplinary expertise: A strong interest and ability to work across disciplines such as biology, chemistry, and engineering are essential. The candidate should be comfortable engaging with both theoretical concepts and experimental techniques.

Hands-on experience: Prior experience with *in vivo* models, organic semiconductor materials, electrochemical devices, or neural interfaces is highly desirable.

Problem-solving skills: A creative and critical thinker who can design experiments, interpret data, and adjust approaches as necessary to overcome research challenges.

Collaborative spirit: The ability to work effectively in a multidisciplinary team, as well as strong communication skills to share findings and collaborate across fields, is key to success in this role.

Great emphasis will be placed on personal qualities and suitability

Starting date

Starting date 13 January 2025, or by agreement.

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 SEK25000:-/month (tax-free) (~€2500/month). Economy class travel to/from Sweden for a scholarship holder will be covered. Funding can be available to participate in conferences.
- Essential information about healthcare, insurances etc. can be found <https://liu.se/en/organisation/liu/itn/essential-information-for-you-who-are-applying-for-a-post-doctoral-scholarship>
- Questions are welcome to HR@itn.liu.se

Application procedure:

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

- Cover letter (1- 2 pages describing your background and your interest in this position)
- Curriculum vitae, max 2 pages, including at least two references that we can contact
- List of publications
- Statement of Research Interests, max 2 pages
- Copy of PhD diploma

The application should be sent electronically to Xenofon Strakosas xenofon.strakosas@liu.se and a copy to registrator@itn.liu.se. Mark your application with reference number Dnr ITN-2024-00466 in the e-mail subject field.

Deadline for application is 26 November 2024.

Contact:

Xenofon Strakosas, Asst. Professor, xenofon.strakosas@liu.se
Martina Klefbeck, HR partner martina.klefbeck@liu.se