Postdoctoral scholarship in organic semiconductor catalysis (Reference number: Dnr ITN-2019-00025) 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](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](http://liu.se/loe) for detail.

**Background and duties:**
The postdoctoral scholar shall work with development of a novel devices for on-demand hydrogen peroxide generation via electrochemistry. Experimentally, photochemical and electrochemical techniques will be used, with the focus being hydrogen peroxide generation in the physiologically-relevant environment.

The goal is to be able to produce on-demand peroxide for altering the electrophysiological behavior of cells and tissues, while at higher concentration leading to cell death. This is envisioned to go in the direction of anticancer therapies.

The project involves multidisciplinary work in materials science and chemistry on one side, and electrophysiology and cellular biology on the other side.

**Qualifications and requirements to applicants:**
- Scholarship may be granted only to non-Swedish citizens with a PhD or equivalent acquired in another country than Sweden. The applicant must not have been employed by Linköping University previously.
- The applicant must have or be about to receive a doctoral degree in chemistry, chemical physics, or chemical/materials engineering. Problem solving ability and creativity are essential.
- The applicant must have a proven track record in scientific research, evidenced by peer-reviewed publications.
- Experience with electrophysiology and biology is considered of major advantage.
- Good communications skills and written and spoken English are required.
Starting date
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 here. 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 eric.glowacki@liu.se and a copy to registrar@itn.liu.se. Mark your application with reference number Dnr ITN-2019-00025 in the e-mail subject field.

Deadline for application is 26.02.2019.

Contact:
Eric Daniel Glowacki, Senior Lecturer, eric.glowacki@liu.se
Martina Klefbeck, HR partner, HR@itn.liu.se