



March 2, 2023

Department of Clinical Sciences Lund  
Scholarship coordinator

## Announcement of postdoc scholarship at the Department of Clinical Sciences Lund, division of Pediatrics

Lund University was founded in 1666 and is repeatedly ranked among the world's top 100 universities. The University has around 46 000 students and more than 8 400 staff based in Lund, Helsingborg and Malmö. We are united in our efforts to understand, explain and improve our world and the human condition. Lund University welcomes applicants with diverse backgrounds and experiences. We regard gender equality and diversity as a strength and an asset. The purpose of postdoctoral development is to promote internationalization and contribute to qualifications within research following the completion of a doctoral degree.

Lund University, Faculty of Medicine hereby invites applications for a postdoctoral scholarship:

**Reference number: V 2023/578**

**Placement:** Department of Clinical Sciences Lund, division of Pediatrics

**Scholarship period:** 2 years

**Preliminary start date:** 2023-05-01

**Last day for applying:** 2023-03-24

**Supervisor/contact person:** Sofie Mohlin, PI  
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### Human pluripotent stem cells to study childhood cancer

The purpose of this stipend is for the candidate to deepen their skills in the field of molecular physiology and provide a unique opportunity to learn new cutting-edge technologies using human pluripotent stem cells and chick embryos. The candidate will acquire theoretical knowledge within the areas of embryonic developmental, human pluripotent stem cells and childhood cancer biology. The postdoctoral scholar will learn how to work hands-on in the lab with the vertebrate chick embryo model (unique in the area), and learn a set of methodologies, including

culturing of human pluripotent stem cells, embryo implantations, immunocytochemistry, and confocal imaging.

Neuroblastoma is the most common cancer in infants and accounts for ~15% of all childhood cancer related deaths. We use chick embryos as a proxy for the embryonic environment during which neuroblastoma develops. In this project, the scholar will utilize human pluripotent stem cells to create a model of human progenitor cell development in an embryonic setting. Our aim is to gain mechanistic and genetic insight into the initiating events of childhood cancer.

There are great opportunities for the scholar to manage their time and practice according to interest and training. The scholarship is aimed to provide a driven and enthusiastic scholar an opportunity to establish their own research line for further academic training.

### **Qualifications:**

- To be eligible for a post doc scholarship at Lund University the recipient must hold a PhD degree within a relevant field.
- The PhD degree **must not be older than three years**.
- The applicant must not have been employed at Lund University in the past two years.
- Obtained PhD within cancer research, developmental biology or equivalent.
- Published papers in peer-reviewed journals
- Fluent in written and spoken English

The following qualifications are advantageous but not required:

- Experience in statistics
- Experience in analyzing omics data (RNAseq, mass spectrometry etc.)
- Experience of *in vivo* models (e.g., chick embryo, mice, rats, zebrafish)
- Experience of immunohistochemistry
- Experience in wet lab techniques
- Imaging experience

The applicant will be part of a team with common goals but at the same time needs to be independent enough to lead projects. The candidate should be fluent in English and have experience from oral and written scientific communication. Great emphasis will be placed on personal suitability. Start date is flexible.

**A written application, including reference number, is to be sent via e-mail to the supervisor and must include the following:**

- PhD diploma
- CV
- Personal letter, stating the reasons why the project suits the applicant (maximum one page)
- List of publications
- References (2)

### **Information regarding scholarships at Lund University**

- The scholarship follows the regulations established by the Vice-Chancellor of Lund University, Reg. No STYR 2020/1283.
- The scholarship is intended for the holder's own education/professional development and does not constitute remuneration for work or other service that has been carried out or will be carried out on behalf of the University.
- The host faculty/department and the scholarship holder shall draw up in writing an agreed plan for the project/development.
- The scholarship amount is paid out quarterly.
- The granted scholarship is reviewed every six months. Scholarship recipients are to complete their education/career development and be present in line with their project plan/professional development plan. In the event of misconduct, or if the recipient is not deemed able to complete their education/qualification due to illness or on other grounds, scholarship funds that have been granted but not yet paid may be withdrawn.
- Scholarships are tax-exempt. There may be a risk of the scholarship holder being taxed in his/her home country; the scholarship holder should investigate this before the period of the scholarship.
- The scholarship holder is not entitled to sickness benefit, parental allowance, holiday pay or pension.
- The scholarship holder is not entitled to subsistence allowance during travel.

- The scholarship holder is to be treated equally to students/researchers in the same situation regardless of the sources of funding and the scholarship holder should be ensured and contribute to a good working environment.