Lund University is one of Europe's leading universities. Here, history and tradition lay the ground for the study and research environments of tomorrow. We offer education and research within engineering, science, law, social sciences, economics and management, humanities, theology, fine art, music and theatre. Through interaction with business and the community we ensure that knowledge and innovations benefit society. The University has 47,000 students and 7,200 staff from all over the world, based mainly in Lund, Malmö and Helsingborg. We work with 680 partner universities in more than 50 countries.

Lund University invites applications for the following position:

**Post-doctoral scholarship**

**Placement:** Department of Experimental Medical Science  
**Ref No:** V 2020/2343  
**Duration:** 6 months  
**Starting time:** 2021-04-01  
**Last day for applying:** 2021-02-14

**Description**

The purpose of this postdoctoral scholarship is to study the genetic regulation of Parkinson-like degeneration of dopaminergic neurons at the Translational Neurogenetics Unit under the supervision of Senior Lecturer Maria Swanberg. The studies are based on the Engrailed-1 hemizygous mouse model and range from *in vivo*-work to molecular biology techniques and bioinformatics.

As postdoc in the Translational Neurogenetics Unit, you will be part of MultiPark (Multidisciplinary research focused on Parkinson’s disease), a translational programme that ranges from experimental pre-clinical research to studies on the life situation of patients with neurodegenerative disorders.

The project includes studies with:
- *In vivo* mouse models of Parkinson’s disease
- Histology, Western blot and qPCR
- RNAseq data and transcriptome analysis
- Experimental, translational and human genetics
Desired start date is the 1 of April or according to agreement.

**Qualifications**

Eligible candidates must have obtained their PhD within the last three years. Moreover, eligible candidates must not have held positions at Lund University within the last two years.

The ability to develop and conduct high quality studies will be evaluated as part of the assessment criteria. The assessment of the applicants will primarily be based on their research qualifications and potential. Special emphasis will be put on personal qualities. The applicant must demonstrate critical thinking, an ability to communicate science and good collaboration skills with colleagues, technical staff and students.

The following criteria are **required** for the position:

- Ph.D. or postdoctoral work in an area relevant for the project.
- Very high proficiency in English, in speech and writing.
- Ability to work with *in vivo* models.
- Strong practical experience with genetics, programming and/or bioinformatics.
- Practical laboratory experience in the field of experimental neuroscience and/or genetics.
- A strong publication record with peer-reviewed articles published in international scientific journals.

The following are considered to be **a merit** for the position:

- Earlier experience of mouse models of neurodegenerative disorders, especially Parkinson’s disease.
- Good theoretical knowledge of the complex genetics of neurodegenerative disorders, especially Parkinson’s disease.
- Good practical skills in laboratory techniques including immunohistochemistry and microscopy, RNA-quantification by qPCR and RNA sequencing as well as protein quantification by Western Blot.
- Good practical skills in transcriptome analyses, RNA-seq data analyses and data mining.
- Good practical skills in programming, including R.
The application should contain:

- A personal letter (max 2 pages) describing how you fulfill the desired qualifications (including a short description of earlier independent projects and technical skills), your research interests and future career plans.
- CV – including names and contact information of two earlier supervisors.
- Complete publication list.
- Copy of PhD diploma.

Information:

Maria Swanberg, Senior Lecturer, Associate Professor in Translational Neuroscience
Tel: +46 46 222 06 12
E-mail: maria.swanberg@med.lu.se

Appointment procedure:

Applications with CV are to be sent to Maria Swanberg, Translational Neurogenetics Unit Group Leader
E-mail: maria.swanberg@med.lu.se

Dnr V 2020/2343 shall be indicated on the application.

Information regarding post doc scholarships at Lund University

- The scholarship amounts are paid quarterly.
- The scholarship follows the regulations laid down by the University Vice-Chancellor (LS 2010/68, A13).
- 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 scholarship does not give any entitlement to sickness benefit, parental allowance, holiday pay or pension.
- The host faculty/department and the scholarship holder shall draw up in writing an agreed plan for the studies/development.
• The Scholarship holder is to be informed about the length of the stay, assured social conditions, and continual review of the scholarship holder’s development.

• The Scholarship holder is to be informed about insurance covering the scholarship holder and the need to check his/her own insurance requirements.

• The scholarship holder is to be treated equally to students/researchers in the same situation but with different sources of funding.

• The scholarship holder is to be assured and to contribute to a good working environment.

• The Scholarship holder is to be informed about the risk of possible retrospective taxation in Sweden in cases where the scholarships are administered and paid out by LU and the scholarship holder gains employment at LU shortly after the period of the scholarship.

• 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.