Announcement: Post doc fellow scholarship in Research of the Evolution of Multicellularity

Scholarship
Animal origins remains enigmatic, although it was one of the most successful evolutionary events in Earth history. Visible evidence of this event is a sudden appearance of animal fossil diversity in ~543 million years old rocks, of the so-called Cambrian explosion. The Cambrian explosion of animal diversity is often associated with an increase of free oxygen but was most likely also a result of preceding re-arrangements of biological capacities. The overall aim of this postdoc fellowship is to explore re-arrangements of biological capacities that could have occurred at this evolutionary transition when animals diversified.

The postdoc fellow will explore changes within hypoxic gene regulation, such as that of carbonic anhydrases, and differences in the capacities for tissue architecture in-between animals and between animals and fungi. Newly defined questions can be explored within cell- and molecular biology techniques (e.g. RNA-sequencing, cell culturing, immunohistochemistry), bioinformatics, and in vivo biological experiments. In addition, the explorations would involve broad literature studies, also of studies from the cancer field (tumor multicellularity) when relevant.

We seek a brave and ambitious postdoc willing to explore uncharted scientific terrain. Preferably a computational person with knowledge in biology and evolution, but any hybrid backgrounds are welcome.

Qualifications required

1. The applicant should have an interest in the evolution of life and broad experience in biology, developmental, or geobiological questions.
2. The applicant should hold a PhD degree (after 2017-04-15) in the biological sciences with experience in bioinformatics, transcription factor regulation, and/or wet lab experiments.
3. The applicant should be an expert in carbonic anhydrases, genetic evolution, cells stemness, or invertebrate animal physiology.
4. The applicant should be used to defining and exploring research questions independently.
5. The applicant should be an ambitious scholar and keen on learning.
6. The applicant should have good communication skills as well as able to interact efficiently in a team.
7. Excellent spoken and written English.

The applicant should *not* have been employed by Lund University within the last two years in order to be able to receive a scholarship. PhD degree should be ‘younger’ than three years at the last day of applying.

**Placement:** Translational Cancer Research at the Medical Faculty, LU  
**Ref No:** 2019/1607  
**Duration:** 24 months  
**Starting time:** 15th of April 2020  
**Last day for applying:** 23th of March 2020

**Application of or for further information:**  
Apply by mailing Emma Hammarlund directly with a cover letter stating the reference number **V 2019/1607**, CV, proof of dissertation, and a one-page free style essay on any topic (plus any other relevant documents), addressed to **emma.hammarlund@med.lu.se**.

For any further information, also contact  
Emma Hammarlund  
emma.hammarlund@med.lu.se

**Other**  
Lund University encourages both men and women to apply for the position.

**Information regarding post doc scholarships at Lund University**  
• The scholarship amounts to 26,000 SEK/month and is normally paid three months in advance.

• The scholarship is intended for the recipient’s own education and does not constitute compensation for work carried out for the University.

• The scholarship is a grant and therefore not subjected to tax deduction.

• The scholarship does not constitute a pensionable income, nor does it entitle the recipient to compensation in case of illness or during vacation.

• The scholarship does not include financial compensation for parental leave or entitle the recipient to allowance during travels in the line of duty.

• The scholarship awarded is to be reviewed by the head of department every six months and the supervisor is to inform the head of department before each review of any significant circumstances.
• Scholarships set up by Lund University for any individual may not run for a period of more than 24 months.

• The scholarship follows the regulations established by the Vice-Chancellor of Lund University (June 27th 2013; Reg. No PE 2013/356).

**About Lund University**
Lund University was founded in 1666 and is repeatedly ranked among the world's top 100 universities. The University has 40 000 students and 7 400 staff based in Lund, Helsingborg and Malmö. We are united in our efforts to understand, explain and improve our world and the human condition.

The Faculty of Medicine is a part of Lund University, and is responsible for education and research within medicine and healthcare. Our academic programs are closely linked with the healthcare system and are firmly anchored in the faculty's strong research tradition. Our research spans a broad field within experimental preclinical research, near-patient clinical research and health sciences research. The Faculty of Medicine, with its 1,800 employees and 2,700 students in Lund and Malmö, is a knowledge-intensive meeting place for students, teachers and researchers from all over the world.

The Department of Laboratory Medicine is one of six departments at Lund University's Faculty of Medicine. In addition to leading world-class research within cancer and genetics, we also utilize tumors as models to explore the success and evolution of multicellularity over Earth history. These explorations are conducted in collaboration with expertise at departments at the Faculty of Natural Sciences.