Doctoral student in Medical Science - Molecular hematology

Ref PAR 2020/1364

The University of Gothenburg tackles society’s challenges with diverse knowledge. 49 000 students and 6 400 employees make the university a large and inspiring place to work and study. Strong research and attractive study programmes attract scientists and students from around the world. With new knowledge and new perspectives, the University contributes to a better future.

Project title: mRNA translation as a target in leukemia

Job assignments

The PhD education in Medical Science comprises carrying out a scientific project and completing at least 30 credits of courses at third-cycle level. The doctoral student must also write a scientific compilation thesis or monograph corresponding to at least 120 credits. For more information about third-cycle studies at Sahlgrenska Academy, see https://www.gu.se/en/sahlgrenska-akademin/doctoral-studies

Project: Acute myeloid leukemia (AML) is an aggressive hematological malignancy that is only curable in approximately 20 % of patients. There is therefore an unmet clinical need for more effective and generalized therapies for AML.

Mutations in oncogenic signaling pathways that regulate mRNA translation represent a common genetic denominator in AML. Therapeutic strategies that target the protein synthesis machinery may therefore overcome genetic heterogeneity in AML. Our laboratory has generated a novel transgenic mouse strain that, for the first time, permits inducible and graded regulation of mRNA translation through the control of ribosome assembly in the cytoplasm. The PhD project will combine this mouse strain with retroviral AML model systems to address the cellular and molecular consequences of defective ribosome assembly on leukemia development. The PhD project may lead to identification of novel mechanism-based strategies to treat AML.

Third-cycle studies are equivalent to four year full-time and lead to a Degree of Doctor. Those appointed to doctoral studentships shall primarily devote themselves to their studies. Those appointed to doctoral studentships may, however, work to a limited extent with educational tasks, research and administration (departmental duties). Before a PhD degree has been awarded, duties of this kind may not comprise more than 20 per cent of a full-time post.

Eligibility

To be eligible for third-cycle studies, the applicant must meet both the general and specific entry requirements.

A person meets the general entry requirements for third-cycle studies if he or she:
1. has been awarded a second-cycle qualification
2. has satisfied the requirements for courses comprising at least 240 credits of which at least 60
A person meets the specific entry requirements for third-cycle studies in Medical Science if he or she has successfully completed the English B/6 course or is considered to have acquired equivalent knowledge through previous studies.

**Assessment**

In selecting between applicants who meet the general and specific entry requirements, their ability to benefit from third-cycle studies shall be taken into account. The assessment shall attach particular importance to documented qualifications for:

- specific knowledge and skills within the subject area and related research fields
- experience of scientific theory and relevant research methodology
- scientific analysis and presentation verified through thesis, degree project, scientific journals or the like.

Documented experience in mouse handling and characterization of murine hematopoiesis, flow cytometry, CRISPR/Cas9 gene editing and cell culture, is an advantage. Great emphasis will be placed on personal qualities.

**Employment**

After admission to third-cycle studies you will be appointed to doctoral studentship. Regulations for employment of doctoral students are given in SFS 1993:100. The initial appointment may apply for no longer than one year. An appointment may be renewed for no more than two years at a time. A person may be appointed to a doctoral studentship for a total of eight years. The total employment period may, however, not exceed the time corresponding to full-time third-cycle study for four years.

Location: Sahlgrenska Academy, Institute of Biomedicine, Department of Microbiology and Immunology. Extent: 100%. First day of employment: as agreed.

Salaries for doctoral students are regulated in a local agreement at the University.

**For further information regarding the position**

For more information about the project please contact the principal supervisor, Pekka Jaako, Institute of Biomedicine, e-mail: pekka.jaako@gu.se

**Unions**

Union representatives at the University of Gothenburg:

**Information for International Applicants**

Choosing a career in a foreign country is a big step. Thus, to give you a general idea of what we and Gothenburg have to offer in terms of benefits and life in general for you and your family/spouse/partner please visit:


[https://www.movetogothenburg.com/](https://www.movetogothenburg.com/)
How to apply

In order to apply for a position at the University of Gothenburg, you have to register an account in our online recruitment system. It is the responsibility of the applicant to ensure that the application is complete in accordance with the instructions in the job advertisement, and that it is submitted before the deadline.

You must include the following, in pdf format

- Personal letter
- CV
- Diploma and transcripts showing that you meet with the general entry requirement
- Proof of completion of English 6 course or the acquired equivalent knowledge through previous studies

If your degree is from a university outside of Sweden, make sure that you attach a diploma and full transcripts that makes assessing your degree easier.

If your degree has not been verified by a Swedish authority you need to provide contact details to the issuing university, registrar or similar, that can verify the degree at our request.

For information on what you need to submit in order to fulfill the English language requirement see https://www.universityadmissions.se/en/entry-requirements/english-language-requirements/

Closing date: 2020-12-28

The University of Gothenburg promotes equal opportunities, equality and diversity.

Applications will be destroyed or returned (upon request) two years after the decision of employment has become final. Applications from the employed and from those who appeal the decision will not be returned.

In connection to this recruitment, we have already decided which recruitment channels we should use. We therefore decline further contact with vendors, recruitment and staffing companies.

Apply