



PhD student in Molecular Biosciences

Ref. No. SU FV-0022-22

at the [Department of Molecular Biosciences, The Wenner-Gren Institute](#). Closing date: 4 February 2022.

Research at [MBW](#) experimentally addresses fundamental problems in molecular cell biology, integrative biology, and infection and immunobiology. State-of-the art and advanced methodologies are applied in a professional research environment characterized by its well-established international profile.

The [Science for Life Laboratory](#) (SciLifeLab) is a collaboration between four universities in Stockholm and Uppsala: Stockholm University, the Karolinska Institute, the Royal Institute of Technology, and Uppsala University. The SciLifeLab is a national centre for large-scale biosciences with a focus on health and environmental research. The centre combines advanced technical know-how and cutting-edge equipment with a broad knowledge in translational medicine and molecular biosciences.

Project description

This PhD student position is available in the group headed by Associate Professor Marc Friedländer - part of the MBW Institute and located at the SciLifeLab. The group seeks to answer fundamental questions in RNA biology through quantitative approaches such as single-cell omics and new screening methods in combination with computational biology. Read more about Group Friedländer [here](#).

The purpose of the project is to discover novel microRNAs that are cancer-specific and not found in healthy tissues - by applying advanced computational methods to massively pooled next-generation sequencing data from cohorts of healthy and diseased tissues. In addition, the student will apply various multi-omics approaches to further characterize novel cancer-specific microRNAs. The student will work in close collaboration with wet-lab biologists and will be actively engaged in multiple levels of the projects.

Qualification requirements

In order to meet the *general entry requirements*, the applicant must have completed a second-cycle degree, completed courses equivalent to at least 240 higher education credits, of which 60 credits must be in the second cycle, or have otherwise acquired equivalent knowledge in Sweden or elsewhere.

In order to meet the *specific entry requirements*, the general syllabus for doctoral studies in the field of Molecular Biosciences stipulates that applicants must have obtained at least 120 credits in molecular biology, biology, chemistry or the equivalent at the undergraduate level and at least 60 credits at an advanced level in molecular biosciences or the equivalent, of which at least 30 credits must consist of an independent thesis project.

The qualification requirements must be met by the deadline for applications.

Selection

The selection among the eligible candidates will be based on their capacity to benefit from the training. The following criteria will be used to assess this capacity: the candidates' documented knowledge in a relevant field of research, written and oral proficiency in English, the capacity for analytical thinking, the ability to collaborate, as well as creativity, initiative, and independence. The assessment will be based on previous experience and grades, the quality of the degree project, references, relevant experience, interviews, and the candidate's written motivation for seeking the position.

Admission Regulations for Doctoral Studies at Stockholm University are available at: [www.su.se/rules and regulations](http://www.su.se/rules-and-regulations).

Terms of employment

Only a person who will be or has already been admitted to a third-cycle programme may be appointed to a doctoral studentship.

The term of the initial contract may not exceed one year. The employment may be extended for a maximum of two years at a time. However, the total period of employment may not exceed the equivalent of four years of full-time study.

Doctoral students should primarily devote themselves to their own education, but may engage in teaching, research, and administration corresponding to a maximum of 20 % of a full-time position.

Please note that admission decisions cannot be appealed.

Stockholm University strives to be a workplace free from discrimination and with equal opportunities for all.

Contact

For more information, please contact Associate Professor Marc Friedländer, telephone: +46 737 12 15 58, marc.friedlander@scilifelab.se.

Union representatives

Ingrid Lander (Saco-S), telephone: +46 708 16 26 64, saco@saco.su.se, Alejandra Pizarro Carrasco (Fackförbundet ST/Lärarförbundet), telephone: +46 8 16 34 89, alejandra@st.su.se, seko@seko.su.se (SEKO), and PhD student representative, doktorandombud@sus.su.se.

Application

Apply for the PhD student position at Stockholm University's recruitment system. It is the responsibility of the applicant to ensure that the application is complete in accordance with the instructions in the advertisement, and that it is submitted before the deadline.

Please include the following information with your application

- Your contact details and personal data
- Your highest degree
- Your language skills
- Contact details for 2–3 references

and, in addition, please include the following documents

- Cover letter
- CV – degrees and other completed courses, work experience and a list of degree projects/theses
- Project proposal/Research proposal describing:
 - why you are interested in the field/project described in the advertisement
 - why and how you wish to complete the project
 - what makes you suitable for the project in question
- Degree certificates and grades confirming that you meet the general and specific entry requirements (no more than 6 files)
- Letters of recommendation (no more than 6 files)
- Degree projects/theses (no more than 6 files).

The instructions for applicants are available at: [How to apply for a position](#).

You are welcome to apply!

Stockholm University contributes to the development of sustainable democratic society through knowledge, enlightenment and the pursuit of truth.

Closing date: 04/02/2022

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