



## **PhD in Computational RNA Biology : Stockholm, Sweden**

**Stockholm University announces two graduate student positions in Computational RNA Biology (Ref nr: SU FV-0924-18) at the Department of Molecular Biosciences, The Wenner-Gren Institute (MBW). Application deadline April 24th, 2018**

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 institute has 30 research groups with a research staff of 170, of which 60 are PhD students.

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.

### **Research project**

The graduate student positions are available in the group headed by assistant professor Marc Friedländer, part of MBW and located at the SciLifeLab. Funded by an ERC starting grant and the Swedish Research Council, the group seeks to address fundamental questions in RNA biology, by applying quantitative approaches such as single-cell RNA sequencing, single-molecule FISH, various screening methods and bioinformatics. The biogenesis and function of regulatory miRNAs are of particular interest. The computational biology graduate students will mine sequence and image data using existing tools, but will also develop novel source as part of the analyses. The students will work in close collaboration with wet-lab biologists and will be actively engaged in multiple levels of the projects. Lab **website:** [www.friedlanderlab.org](http://www.friedlanderlab.org)

### **Eligibility**

Graduate studies in molecular biosciences requires a completed university degree at master's level or corresponding in a field related to biology or computation. The successful applicants will have a good understanding of molecular biology and genetics and will be familiar with scripting/programming. Experience with next-generation sequencing data is an advantage, but is not required.

### **Selection criteria**

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 biology and computational biology, 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.

### **Terms of Employment**

The employment is set up for a fully funded four year PhD project. In practice, newly appointed graduate students are initially financed for up to one year. Subsequently, 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.

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**

Further information can be provided by assistant professor Marc Friedländer, [marc.friedlander@scilifelab.se](mailto:marc.friedlander@scilifelab.se).

### **Union representatives**

Ingrid Lander (Saco-S), telephone: +46 708 16 26 64, [saco@saco.su.se](mailto:saco@saco.su.se), Lisbeth Häggberg (Fackförbundet ST and Lärarförbundet), telephone: +46 8 16 20 00 (operator), [seko@seko.su.se](mailto:seko@seko.su.se) (SEKO), and PhD student representative, [doktorandombud@sus.su.se](mailto:doktorandombud@sus.su.se).

### **Application**

Applications should be submitted using the Stockholm University web-based application system at: [www.su.se/english/about/working-at-su/phd](http://www.su.se/english/about/working-at-su/phd)

Click on the position "PhD student in Molecular biosciences ( C )" and click the "Apply" button on this page.

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.

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 describing why you are interested in the field/project described in the advertisement and what makes you suitable for the project in question
- CV – degrees and other completed courses, work experience and a list of degree projects/theses
- 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:

<https://www.su.se/english/about/working-at-su/instructions-applicants...>