



UPPSALA  
UNIVERSITET

# PhD student in molecular biology

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**Uppsala University is a comprehensive research-intensive university with a strong international standing. Our ultimate goal is to conduct education and research of the highest quality and relevance to make a long-term difference in society. Our most important assets are all the individuals whose curiosity and dedication make Uppsala University one of Sweden's most exciting workplaces. Uppsala University has over 54,000 students, more than 7,500 employees and a turnover of around SEK 8 billion.**

**The Department of Immunology, Genetics and Pathology** at Uppsala University has a broad research profile with strong research groups focused on cancer, autoimmune and genetic diseases. A fundamental idea at the department is to stimulate translational research and thereby closer interactions between medical research and health care. Research is presently conducted in the following areas: medical and clinical genetics, clinical immunology, pathology, neuro biology, neuro-oncology, vascular biology, radiation science and molecular tools. Department activities are also integrated with the units for Oncology, Clinical Genetics, Clinical Immunology, Clinical Pathology, and Hospital Physics at Akademiska sjukhuset, Uppsala. The department has teaching assignments in several education programmes, including Master Programmes, at the Faculty of Medicine, and at the Disciplinary Domain of Science and Technology. The department has a yearly turnover of around SEK 500 million, out of which more than half is made up of external funding. The staff amounts to approximately 345 employees, out of which 100 are PhD-students, and there are in total more than 700 affiliated people. Feel free to read more about the department's activities here: [www.igp.uu.se](http://www.igp.uu.se)

[Read more about our benefits and what it is like to work at Uppsala University](#)

## Duties

Our thoughts and memories are formed by circuits of neurons transmitting information from one to another. However, we have a limited understanding of how long-term symbolic information transfer is achieved in the face of molecular turnover at the synapse. In this project, the Ph.D. student will explore new ways in which symbolic information can be stored and transferred both between cells and over time. The project is a sub-project in a larger ongoing project in the group. The sub-project consists of developing and validating methods for creating sequencing libraries to tag individual molecules and follow their life cycle. Promising candidates will then be studied more closely to tease apart the exact mechanisms. The work is not limited to a certain type of tissue, cells, or organisms, but the candidate should be flexible in their approach and not afraid to learn new things.

## **Requirements**

To meet the entry requirements for doctoral studies, you must

- hold a degree in molecular biology, biotechnology, biomedicine or related discipline.
- have completed at least 240 credits in higher education, with at least 60 credits at Master's level including an independent project worth at least 15 credits, or
- have acquired substantially equivalent knowledge in some other way.

Language requirements: fluent Swedish.

Experience working in macOS, Linux or Unix. Programming in Python. The candidate should have used the following molecular biology techniques: PLA, PEA, qPCR, Illumina NGS, basic cell culture.

## **Additional qualifications**

Experience with high-throughput workloads. Including pipetting robots, fluidics and multiplexing.

Rules governing PhD students are set out in the Higher Education Ordinance chapter 5, §§ 1-7 and in [Uppsala University's rules and guidelines](#).

## **About the employment**

The employment is a temporary position according to the Higher Education

Ordinance chapter 5 § 7. Scope of employment 100 %. Starting date as agreed.  
Placement: Uppsala

**For further information about the position, please contact:** Daniel Fürth,  
0768639542, furth@scilifelab.uu.se

**Please submit your application by May 2 2023, UFV-PA 2023-1440**

Are you considering moving to Sweden to work at Uppsala University? [Find out more about what it's like to work and live in Sweden.](#)

Please do not send offers of recruitment or advertising services.

**Submit your application through Uppsala University's recruitment system.**

**Placement:** Department of Immunology, Genetics and Pathology

**Type of employment:** Full time , Temporary position

**Pay:** Fixed salary

**Number of positions:** 1

**Working hours:** 100 %

**Town:** Uppsala

**County:** Uppsala län

**Country:** Sweden

**Union representative:** ST/TCO tco@fackorg.uu.se

Seko Universitetsklubben seko@uadm.uu.se

Saco-rådet sacco@uadm.uu.se

**Number of reference:** UFV-PA 2023/1440

**Last application date:** 2023-05-02

**[Apply for position](#)**