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# PhD position in Genomics

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Published: 2023-09-13

The Department of Medical Biochemistry and Microbiology (IMBIM) at Uppsala University provides a broad international environment for research and teaching. Research at IMBIM broadly spans the areas of biochemistry, cell and molecular biology, tumour biology, comparative genetics, functional genomics, immunology, bacteriology, and virology. The research is essentially of fundamental nature, but with relevance and application in health and disease in both animals and humans. More info: <https://www.imbim.uu.se/research-areas/>.

Leif Andersson's research group at IMBIM is now seeking a motivated candidate with the ability to work independently and with a strong interest in pursuing a PhD degree in Genomics with specialization in evolutionary population genomics at Uppsala University. The research project will focus on exploring mechanisms underlying genetic adaptation in natural populations.

More information about the group: [https://www.imbim.uu.se/research-groups/genetics-and-genomics/Andersson\\_Leif/](https://www.imbim.uu.se/research-groups/genetics-and-genomics/Andersson_Leif/)

## **Project description and working tasks**

The aim of the project is to advance our understanding how species genetically adapt to the environment and identify specific genes and mutations that contribute to this evolutionary process. The aim is also to advance knowledge concerning the function of the genes that contribute to adaptation. We have generated whole genome sequencing data on Atlantic herring, Darwin's finches and several other species. In this PhD project, bioinformatics analysis will be used to explore how natural selection shapes genetic diversity and how that contributes to adaptation.

The successful candidate will engage in research and doctoral studies. Other duties at the department, i.e. administration and teaching, may be included in the employment up to a maximum level of 20 %.

### **Qualifications**

Candidates should hold a Master's degree or equivalent, with a focus on genetics, genomics and/or bioinformatics. Experience in population genetics, the analysis of whole genome sequence data, statistics and programming is required for the project. Good oral and written communication skills in English are required. Emphasis will also be given on personal qualities such as collaboration and communication skills as well as analytical capacity. The candidate is expected to take own initiatives as well as to collaborate with national and international colleagues both within and outside of the group.

### **The selection is based on the following criteria**

Completion of the above qualifications, grades in relevant courses, suitability of the courses to the research program, previous experience in working and/or performing research in the wider area that relates to the project described above. An integrated assessment of the applicant is generated in order to employ the best possible candidate that can succeed in the doctoral studies and contribute to a positive development of the research program.

To be employed as a PhD student, the applicant must be accepted in a doctoral program. Information concerning doctoral education, requirements and rules of admission can be found at [PhD studies - Disciplinary Domain of Medicine and Pharmacy - Uppsala University, Sweden \(uu.se\)](https://www.uu.se/en/education/doctoral-studies)

The length of the study period for full time employment is a maximum of four years. Terms for graduate studies can be found in Högskoleförordningen 5 kap 1-7 §§ and in: [Uppsala University's rules and guidelines](https://www.uu.se/en/education/graduate-studies).

**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 soon as possible or as agreed. Placement: Uppsala

**Application:** Please submit your application using the Uppsala University application portal, by including a CV, a letter describing your research interest and skills, publications or a copy of master thesis or equivalent, contact information of two referees (phone number and e-mail address).

**For further details, please contact:** Professor Leif Andersson, [leif.andersson@imbim.uu.se](mailto:leif.andersson@imbim.uu.se)

**You are welcome to submit your application no later than September 27, 2023, UFV-PA 2023/3368.**

Uppsala University is a broad research university with a strong international position. The ultimate goal is to conduct education and research of the highest quality and relevance to make a difference in society. Our most important asset is all of our 7,500 employees and 54,000 students who, with curiosity and commitment, make Uppsala University one of Sweden's most exciting workplaces.

Read more about our benefits and what it is like to work at Uppsala University <https://uu.se/om-uu/jobba-hos-oss/>

Please do not send offers of recruitment or advertising services.

Submit your application through Uppsala University's recruitment system.

**Placement:** Department of Medical Biochemistry and Microbiology

**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:** Saco-rådet [saco@uadm.uu.se](mailto:saco@uadm.uu.se)

ST/TCO [tco@fackorg.uu.se](mailto:tco@fackorg.uu.se)

Seko Universitetsklubben [seko@uadm.uu.se](mailto:seko@uadm.uu.se)

**Number of reference:** UFV-PA 2023/3368

**Last application date:** 2023-09-27

**Apply for position**