PhD student in Molecular Life Science

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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 45,000 students, more than 7,000 employees and a turnover of around SEK 7 billion.

The Department of Cell and Molecular Biology is one of the most international, broad, and distinguished molecular bioscience departments in Europe. The department comprises six research programs with about 130 employees. Please read more at [http://www.icm.uu.se](http://www.icm.uu.se).

The position is within the research group of Johan Elf at the program of Molecular Systems Biology. The Elf group works across the borders of conventional research disciplines to investigate life at the molecular level. We build physical models of central biological processes and develop different methods to test these models in living cells. Please see [http://elflab.icm.uu.se/](http://elflab.icm.uu.se/) for more information about our activities.

**Project description:** The Ph.D. project is part of a large effort funded by the Swedish Research Council and the Knut and Alice Wallenberg foundation, to investigate the search kinetics of DNA interacting proteins. In this project, we try to understand how a DNA binding molecule can find one specific DNA sequence within minutes among the vast pool of similar sequences that make up the genome. This specific Ph.D. project will investigate how a DNA-binding protein interacts with different DNA sequences by large-scale microscopy screening.
**Work duties:** The Ph.D. student shall primarily focus on postgraduate studies. Duties related to teaching and administrative work may be included in the work description, but should not exceed 20% of the work hours. Information about doctoral education, eligibility requirements, and admission rules can be found at the faculty website, [http://www.teknat.uu.se/utbildning/utbildning-pa-forskarniva/](http://www.teknat.uu.se/utbildning/utbildning-pa-forskarniva/).

**Requirements:** The applicant must have a master's degree in Biotechnology/Biophysics or within another subject which the employer considers equivalent. He or she should have experience with molecular biology, microscopy, programming (e.g., MATLAB and Python), and image analysis. The applicant must have a good ability to work independently as well as in a group. Good written and oral knowledge of English is a prerequisite, as the work is conducted in an international environment.

**Additional qualifications:** Experience with molecular cloning and/or microfluidic techniques is desirable but not required to be considered for the position.

**The application:** Your application must include

- A cover letter where you describe yourself, your research interest, your experiences and why you are interested in the position (max. 2 pages).

- A CV containing your education, list of publications and other qualifications, and copies of diplomas.

- Please provide contact information to reference persons and/or recommendation letters from prior research supervisors.

Rules governing PhD students are set out in the Higher Education Ordinance chapter 5, §§ 1-7 and in Uppsala University's rules and guidelines [http://regler.uu.se/?languageId=1](http://regler.uu.se/?languageId=1).

**Salary:** According to local agreement for PhD students.

**Starting date:** As soon as possible or as otherwise agreed.
**Type of employment:** Temporary position according to the Higher Education Ordinance chapter 5 § 7.

**Scope of employment:** 100 %.

**For further information about the position please contact:** Johan Elf, johan.elf@icm.uu.se or Irmeli Barkefors irmeli.barkefors@icm.uu.se.

**Please submit your application by February 18, 2021, UFV-PA 2021/385.**

Are you considering moving to Sweden to work at Uppsala University? If so, you will find a lot of information about working and living in Sweden at [www.uu.se/joinus](http://www.uu.se/joinus). You are also welcome to contact International Faculty and Staff Services at ifss@uadm.uu.se.

Please do not send offers of recruitment or advertising services.

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

Placement: Department of Cell and Molecular Biology  
Type of employment: Full time, Temporary position longer than 6 months  
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 saco@uadm.uu.se  
Number of reference: UFV-PA 2021/385  
Last application date: 2021-02-18

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