



# PhD student molecular systems biology

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Uppsala University is a comprehensive research-intensive university with a strong international standing. Our mission is to pursue top-quality research and education and to interact constructively with 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 44.000 students, 7.100 employees and a turnover of 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 seven research programs with about 130 employees. Please read more at (<http://www.icm.uu.se>). This PhD position will be in the Molecular Systems Biology program, in the research group of Associate Professor Sebastian Deindl (see <http://deindl-lab.com>).

The Deindl group studies how the structural architectures and dynamics of proteins and protein complexes together enable their function in the regulation of gene expression. One major focus are nucleic-acid interacting enzymes whose aberrant function or dysregulation is often associated with severe disease states such as cancer. In order to understand the function and regulation of these enzymes at a molecular level, we develop and apply single-molecule fluorescence methodologies and combine them with a range of structural approaches, biochemistry and computer simulations.

## **General description**

The student will apply single-molecule FRET imaging methodologies, alongside biochemical and structural approaches to characterize the activity and function of a nucleosome-associated enzyme.

Mechanistic insights gained from these research activities can be complemented with collaborative cell-based functional studies.

## **Duties**

The Ph.D. student shall primarily focus on postgraduate studies, but other duties related to teaching and administrative work may be involved, up to a maximum of 20 % of the time. 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/>.

## **Requirements**

The applicant must have a master's degree in biochemistry or within another subject which the employer considers to be equivalent. The applicant should have an academic background in cell and molecular biology or biophysics. Fluency in spoken and written English is a prerequisite for the position. Great emphasis will also be placed on personal skills such as communication and collaboration skills, ability to work independently and in the group, as well as scientific maturity and creativity.

## **Merits**

Previous experience in wet-lab biochemistry, in particular assembly and purification of nucleosomes, and experience with the purification of proteins, optical microscopy, molecular biology, and mammalian cell culture is considered an advantage.

**The application** Your application must be written in English and include:

- A personal 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 and other qualifications and a copy of your diplomas and list of publications.
- Please provide contact information to at least one reference person.

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>.

Uppsala University strives to be an inclusive workplace that promotes equal opportunities and attracts qualified candidates who can contribute to the University's excellence and diversity. We welcome applications from all sections of the community and from people of all backgrounds.

**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:**

Martha Schattenhofer ([martha.schattenhofer@icm.uu.se](mailto:martha.schattenhofer@icm.uu.se)), for administrative questions contact Hr-generalist Frida Österdahl, tel. +46(0) 18471 4416, e-mail [frida.nilsson@icm.uu.se](mailto:frida.nilsson@icm.uu.se)

**Please submit your application by May 13th 2019, UFV-PA 2019/1434.**

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](mailto:ifss@uadm.uu.se).

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: Seko Universitetsklubben [seko@uadm.uu.se](mailto:seko@uadm.uu.se)  
ST/TCO [tco@fackorg.uu.se](mailto:tco@fackorg.uu.se)  
Saco-rådet [saco@uadm.uu.se](mailto:saco@uadm.uu.se)  
Number of reference: UFV-PA 2019/1434  
Last application date: 2019-05-13

**Login and apply**