



UPPSALA
UNIVERSITET

PhD student in Biochemistry

Published: 2023-07-20

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 Chemistry – BMC conducts research and education in analytical chemistry, biochemistry and organic chemistry. More than 100 people, including around 45 PhD students, work at the department. New employees and students are recruited from all over the world and English is the main working language. The department is located at the Biomedical Centre in Uppsala, which facilitates collaborations with research groups in biology, pharmacy, medicine and SciLifeLab and gives access to advanced infrastructure for experimental and theoretical studies. The international environment and good opportunities for interdisciplinary collaborations enables PhD students at the department to participate in relevant research projects and prepare for an international research career.

[Read more about the research at The Department of Chemistry – BMC at our website.](#)

The position is one of eleven PhD positions in the Horizon Europe-funded Marie Skłodowska-Curie Action (MSCA) Doctoral Network IDPro, Intrinsically disordered proteins in health and disease: mechanisms, molecular context and opportunities for drug discovery.

IDPro is an exceptional network of nine beneficiaries (eight academic and one industrial) and five partner organizations (four industrial and three academic) from seven different countries, with excellent track records in protein research and supervision. Together, we will train eleven doctoral candidates, with distinct competencies of relevance for the field of intrinsically disordered proteins, to secure future scientific breakthroughs in a rapidly developing field. In particular, we will investigate how disordered proteins interact, how interaction is affected by disease-related mutations, and assess how disordered proteins cause aberrant cellular signaling in relevant human disease models. Furthermore, we will design ligands that can be further developed into molecular probes, which could represent lead structures for the development of drugs. The goal of IDPro is to strengthen an emerging field in biology and medicine with implications for both academia and industry in the European union.

In this project we will address fundamental questions related to how proteins such as kinases recognize binding sites in the intrinsically disordered regions of the proteome, and how these interactions are regulated and deregulated. The research will include heterologous expression and purification of proteins and identification and characterization of their interactions using a range of biophysical, biochemical and bioinformatics approaches.

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

Duties

The main duties of PhD students are to devote themselves to their research studies, which includes participating in research projects and third cycle courses. The work duties can also include teaching and other departmental duties (not more than 20 % of full time).

Requirements

- To be eligible for doctoral education, a basic higher education equivalent to at least 240 ECTS credits, including at least 60 ECTS credits at Master's level, including an independent project equivalent to at least 15 credits, or has acquired substantially equivalent knowledge in some other way. [More information about the general requirements can be found here.](#)

- A person has special eligibility for a doctoral program in biochemistry if he/she has passed examinations in courses in biochemistry (or other subjects relevant to biochemistry) comprising a total of at least 120 higher education credits or the equivalent. The courses shall comprise at least 90 credits in chemistry, including at least 45 credits in biochemistry of which at least 15 credits shall consist of a project in biochemistry. [More information about the subject specific requirements can be found here.](#)
- Very good English proficiency in speech and writing.
- This MSCA Doctoral Network grant aims to promote mobility within the EU. Applicants must not have resided or carried out their main activity (work, studies, etc.) in Sweden for more than 12 months in the 36 months immediately before their date of recruitment.

Great emphasis will be placed on personal qualities such as good collaborative skills, motivation and independence, as well as how the applicant through his/her experience and competence is judged to have the abilities necessary to develop within and acquire the doctoral education.

Additional qualifications

We are looking for a highly motivated person, with an ability to work independently and in collaboration with other groups. The candidate is expected to take initiative driving the project, but also to collaborate with the other members of the doctoral network.

The candidate should have a strong interest in pursuing a PhD degree in the field of protein science with a focus on intrinsically disordered proteins. The ideal candidate would be able to express and purify proteins in *E. coli* and perform basic characterization of the proteins.

Basic programming skills in Python and/or R are of added value.

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 11 November or as agreed. Placement: Uppsala

For further information about the position, please contact: Ylva Ivarsson, ylva.ivarsson@kemi.uu.se.

Please submit your application by 21 September 2023, UFV-PA 2023/2767.

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 Chemistry - BMC

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 saco@uadm.uu.se

Number of reference: UFV-PA 2023/2767

Last application date: 2023-09-21

[Apply for position](#)