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UNIVERSITET

PhD student in Molecular Pharmaceutics

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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 Pharmacy offers an interdisciplinary environment at the center of the pharmaceutical arena. With frontline research, first-rate education and extensive collaborations we constitute an important driving force in the development of our academic field. In this inspiring environment our rich diversity of research groups, several of international prominence, develop and conduct work of great scientific importance. Among our core competences are in vitro ADME models, enabling formulations, advanced in vivo methods, computational modelling and simulations, as well as patient and societal aspects, from optimizing the use of drugs in individuals to societal pharmaceutical policies. Together, we form a unique cluster of academic competences within pharmaceutical science, playing a key role in shaping the future of pharmacy in both Sweden and globally.

Our scientific focus areas in selection: Molecular Pharmaceutics • Drug Delivery • Pharmaceutical nanotechnology • Pharmacokinetics • Pharmacodynamics • Pharmacometrics • Clinical Pharmacy • Pharmacoeconomics • Pharmacoepidemiology • Pharmacotherapy • Social Pharmacy.

More information at [Farmaci](#)

SciLifeLab ([Scilifelab](#)) is a Swedish national center for molecular biosciences with focus on health and environmental research. The center combines frontline technical expertise with advanced knowledge of translational medicine and molecular bioscience. SciLifeLab is hosted by four Swedish universities (Uppsala University, Karolinska Institutet, KTH Royal Institute of Technology and Stockholm University) and collaborates with several other universities.

The research group

The PhD student will be linked to the research group **Molecular Pharmaceutics**. The group takes a multidisciplinary approach and combines computational chemistry and bioinformatics with cell- and molecular biology, biopharmaceutics, pharmaceutics and physical chemistry to find new ways to predict and define rate-limiting barriers to the absorption and organ distribution of different types of drugs. We anticipate that our research will provide insights into new mechanisms for drug absorption, disposition and delivery, which will support development of new therapeutic strategies for efficient oral drug delivery. More information at [Bergström](#). The position is placed in the research group of Alexandra Teleki ([Teleki](#)) who is associated with SciLifeLab. The overall goal of the Teleki research group is to transform innovative nanomedical approaches to clinically relevant, patient-compliant diagnosis and treatment.

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

The project

The PhD student will work in the area of vaginal drug delivery systems with the aim to develop a long-acting, mucus-penetrating drug delivery device for local application in the vagina to provide simple and efficacious treatment women's diseases, such as vaginal infections or endometriosis. The drug delivery system will be based on emulsions and liposomes. These formulations will be loaded into the tip of microneedles or as drug depots in intravaginal rings. The project will use relevant *in vitro* and *ex vivo* vaginal models to study the mucus-penetrating properties of the microneedles and the drug release.

Focus areas of the position: Drug delivery systems • Microneedles • Vaginal drug delivery.

Qualifications

Applications from highly motivated candidates are welcome. The successful candidate should have a Master of Science in Pharmaceutics, Drug Discovery and Development, Chemical/biochemical engineering, Biomedicine, Biotechnology or similarly relevant field, and have good communication skills in oral and written English. Previous experience of any of the core subjects are meritorious.

How to apply

The application, preferably written in English, is submitted through the application portal of Uppsala University and should contain

- a letter in which the applicant describes her- or himself, motivates why she/he has applied for the position and states relevant qualifications.
- a CV including at least two references (phone number and email), and
- copies of relevant certificates, degrees and grades.

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 *1 March 2023* or as agreed. Placement: Uppsala.

For further information about the position, please contact: *Associate Professor Alexandra Teleki, tel 018-471 4745, e-post alexandra.teleki@scilifelab.uu.se.*

Please submit your application by 9 February 2023, UFV-PA 2023/169.

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 Pharmacy

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 sacco@uadm.uu.se

Number of reference: UFV-PA 2023/169

Last application date: 2023-02-09

[Apply for position](#)