PhD-student in Molecular Microbiology

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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 seven research programs with about 130 employees. Please read more at (http://www.icm.uu.se).

This PhD position will be placed in Erik Holmqvist’s research group at the Microbiology and Immunology program. The position is partly funded by the Uppsala Antibiotic Center (UAC), and the recruited PhD student will be part of UAC’s graduate research school. UAC is a center for research, education, innovation & awareness founded in 2015 to bring together, stimulate and support important research on antibiotic resistance from all three disciplinary domains at Uppsala University: Medicine and Pharmacy, Science and Technology, and Humanities and Social Sciences. The doctoral student positions and graduate school are central parts of UAC with the goal of educating a new generation of researchers with broad knowledge and willingness to contribute to combating the problem of antibiotic resistance. For more information about UAC: www.uac.uu.se.

**General description:** The PhD project deals with how bacteria deploy so-called toxin-antitoxin systems to survive in stressful environments, for instance in the presence of antibiotics. The project will specifically investigate the molecular
mechanisms governing the regulation of toxin production, the environmental factors that trigger toxin expression, and how toxins affect bacterial survival in the presence of antibiotics. The studies will primarily be carried out using the pathogen Salmonella Typhimurium as a model.

**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/](http://www.teknat.uu.se/utbildning/utbildning-pa-forskarniva/).

**Requirements:** The applicant must have a master's degree in microbiology, molecular biology, biotechnology, or within another subject which the employer considers to be equivalent. The applicant must have a good ability to work independently as well as in a group. A prerequisite is good written and oral knowledge of English, as the work takes place in an international environment.

**The application:** Your application is preferably written in English and must 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 reference persons and 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.

**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:

Erik Holmqvist, erik.holmqvist@icm.uu.se, tel. 018-471 4073, for administrative questions contract Hr-generalist Frida Österdahl, tel. +46(0) 18471 4416, e-mail frida.osterdahl@icm.uu.se

Please submit your application by May 31st 2021, UFV-PA 2021/1704.

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 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 2021/1704
Last application date: 2021-05-31

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