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Ph.D. position in brain tumor research

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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 Immunology, Genetics and Pathology at Uppsala University (www.igp.uu.se) has a broad research profile with strong research groups focused on cancer, autoimmune and genetic diseases. A fundamental idea at the department is to stimulate translational research and thereby closer interactions between medical research and health care. Research is presently conducted in the following areas: medical and clinical genetics, clinical immunology, pathology, neuro-oncology, vascular biology, radiation science and molecular tools. Department activities are also integrated with the units for Oncology, Clinical Genetics, Clinical Immunology, Clinical Pathology, and Hospital Physics at Akademiska sjukhuset, Uppsala. The department has teaching assignments in several education programmes, including Master Programmes, at the Faculty of Medicine, and in a number of educations at the Disciplinary Domain of Science and Technology. The department has a yearly turnover of around SEK 420 million, out of which more than half is made up of external funding. The staff amounts to approximately 345 employees, out of which 100 are PhD-students, and there are in total more than 700 affiliated people. For more information see the department homepage <http://www.igp.uu.se>.

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Duties/Project description

A Ph.D. position is available for a highly motivated student with an interest in cross-disciplinary brain tumor research in the research group led by Professor Sven Nelander at Uppsala University, Department of Immunology, Genetics and Pathology. Our research group uses cross-disciplinary methods to understand how cancer arises, progresses and can be treated. We specifically focus on cancer of the nervous system, a group of diseases where the need for new treatments is urgent. The group's work is characterized by an interdisciplinary approach that brings together researchers with computational and experimental focus. The group (nelanderlab.org) has around 15 members and is located at the Rudbeck Laboratory and SciLifeLab, two leading centers in medical research.

More information about the research group; nelanderlab.org

The goal of the doctoral project is to use a groundbreaking CRISPR-based method, in which large-scale gene knockout is combined with single-cell profiling to map the mechanisms underlying the invasion of brain tumors. We will develop the results using innovative patient-specific in vivo models, aiming at uncovering new patient-specific treatments for tumor invasion. The project is supervised by prof Sven Nelander (main supervisor) and Dr Cecilia Krona (co-supervisor).

The successful candidate will devote most of the time towards his/her research level education. Other service activities within the department, e.g. education and administrative work can be included within the framework of the employment (maximum 20%). The position will be extended with the time devoted to teaching to allow four years of full-time graduate studies. The student is expected to take part in courses and other activities of the graduate school.

Requirements

To be admitted to the PhD position, a master's degree is required (http://www2.medfarm.uu.se/utbildning/forskarniva/vill_du_borja/), and for the advertised position it is required that your degree is in molecular biology, biotechnology, biomedicine, medicine, or a related subject. Hands-on experience in cell- and molecular biological research is required for the position, as well as basal knowledge of statistical methodology. Good knowledge of oral and written English is required.

Additional qualifications

Experience in neuro-oncology research or other experience of cancer research is a merit for the position. Other merits that are considered are experience in key methods used in the project, such as molecular cloning, gene editing, sequencing, immunohistochemistry or xenotransplantation models in zebrafish or mouse. Documented experience in working in a cross-disciplinary team is a merit.

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 as agreed. Placement: Uppsala.

For further information about the position, please contact: Sven Nelander, sven.nelander@igp.uu.se, +46 76 1380123.

Please submit your application by 29 April, 2022, UFV-PA 2022/866.

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 Immunology, Genetics and Pathology

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 2022/866

Last application date: 2022-04-29

Apply for position