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PhD student in the research group of Patrick Micke

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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 has a broad research profile with strong research groups focused on, among other things, cancer, autoimmune and genetic diseases. One of the basic ideas at the department is to stimulate translational research and thus a closer collaboration between medical research and healthcare. Research is conducted in medical and clinical genetics, clinical immunology, pathology, neurooncology, vascular biology, radiation science and molecular tools. Parts of the business are also integrated with the departments of oncology, clinical genetics, clinical immunology, clinical pathology and hospital physics at the University Hospital. The department has teaching assignments in a number of program programs and master's programs within the Faculty of Medicine as well as a number of programs in the field of technical-natural science. The department has a turnover of around SEK 450 million, of which just over half is external research grants. The number of employees is about 500, of which about 100 are doctoral students, and there are a total of over 700 active in the workforce. Please read more about the department's activities here: www.igp.uu.se.

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

Duties

A PhD student position is available for highly motivated individuals with interest in molecular tumorbiology and tumor pathology at the laboratory of Professor MD PhD Patrick Micke at Uppsala University, Department of Immunology, Genetics and Pathology. The doctoral student will perform analyses overall aiming to identify novel prognostic as well as predictive biomarker for NSCLC patients. The main focus will be on components of tumor-immune/tumor-stroma-signaling in the context of early NSCLC progression as well as the development of resistance to checkpoint inhibiting therapy. Analytical approaches will involve to a large extent advanced RNA sequencing analyses including TCR and BCR sequencing. The transcriptomic data will be complemented with spatial *in situ* techniques such as multiplexed immunofluorescence (Vectra Polaris system), RNA scope and in situ sequencing for a comprehensive signaling-profiling of the tumor-immune microenvironment. A central aspect of the doctoral studies will be to learn how to set and discuss the generated data in a broader context. Additional tasks will include digital image analysis.

The key duties of doctoral students are to devote themselves to their research projects and third cycle courses. Interest in acquiring and expanding of bioinformatics skills will be highly required for performance of the projects. Doctoral students are expected to actively involve themselves in the research aims of the group and to contribute to a well working lab environment including also laboratory duties and organization. Participation in all relevant activities organized by the research network will be strongly encouraged and supported.

More information on the research group can be found at https://igp.uu.se/research/clinical_experimental_pathology/patrick-micke/.

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.

Requirements

The applicant should have MSc degree or MD or similar in a relevant area (e.g. molecular biology, tumorbiology, tumorimmunology, pathology, bioinformatics). A

very strong merit would be experience in RNA sequencing analysis, programming and/or bioinformatics for digital image analysis. A strong merit would be prior experience in histological analyses particularly spatial *in situ* profiling techniques. Excellent skills in oral and written English are required. The applicant must be highly motivated, team oriented and open-minded.

Additional qualifications

An entrepreneurial mindset will be welcomed.

Information about education at the postgraduate level, admission requirements and admission decisions can be found at <https://mp.uu.se/web/info/forska/forskarutbildning/medicin-och-farmac/>.

Selection of applicants will be done by the future tutor for the selected student in consultation with the postgraduate study group of the Department. The Postgraduate Programmes Committee at the Disciplinary Domain of Medicine will formally approve the student's admission.

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 01-09-2022 or as agreed. Placement: Uppsala.

For further information about the position, please contact:

Carina Strell, Carina.strell@igp.uu.se.

Please submit your application by 18 July 2022, UFV-PA 2022/2634.

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 saco@uadm.uu.se

Number of reference: UFV-PA 2022/2634

Last application date: 2022-07-18

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