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# PhD student in experimental brain tumor research

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**The Department of Immunology, Genetics and Pathology** at Uppsala University 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 biology, 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 at the Disciplinary Domain of Science and Technology. The department has a yearly turnover of around SEK 500 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. Feel free to read more about the department's activities here: [www.igp.uu.se](http://www.igp.uu.se)

## Duties

The overarching goal is to develop a new innovative therapy for the incurable brain cancer glioblastoma (GB) by investigating and targeting the locally invasive GB edge cells. GB is the most frequent and aggressive primary malignant brain tumor and most patients die within one year of diagnosis of a tumor relapse that occurs in close proximity to the resection cavity of the primary tumor. While GB bulk cells have been frequently studied there is little knowledge of the peritumoral GB edge cells. The project aims are to collect, culture and perform functional, molecular and bioinformatic investigations of GB edge cells to map their intra- and intertumor

heterogeneity, biology and vulnerabilities. Based on this information we will develop therapeutic strategies to target GB edge cells.

## **Requirements**

To meet the entry requirements for doctoral studies, you must

- hold a Master's (second-cycle) degree in biomedicine or similar relevant subject, or
- have completed at least 240 credits in higher education, with at least 60 credits at Master's level including an independent project worth at least 15 credits, or
- have acquired substantially equivalent knowledge in some other way.

## **Additional qualifications**

- Experience of establishing and analyzing patient-derived cell cultures.
- LAS certificate and experience of working with mouse models of cancer.
- Experience of R programming, large-scale sequence analysis and bioinformatics.
- Practical knowledge of confocal microscopy and image analysis.
- Excellent organization and documentation skills.
- Excellent knowledge in English, both spoken and in writing.

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:** Lene Uhrbom, phone: 018-4715063, email: [lene.uhrbom@igp.uu.se](mailto:lene.uhrbom@igp.uu.se)

**Please submit your application by 28 September 2023, UFV-PA 2023/3184.**

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.](#)

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Read more about our benefits and what it is like to work at Uppsala University <https://uu.se/om-uu/jobba-hos-oss/>

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

**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](mailto:tco@fackorg.uu.se)

Seko Universitetsklubben [seko@uadm.uu.se](mailto:seko@uadm.uu.se)

Saco-rådet [saco@uadm.uu.se](mailto:saco@uadm.uu.se)

**Number of reference:** UFV-PA 2023/3184

**Last application date:** 2023-09-28

**[Apply for position](#)**