PhD Position in Medical Imaging with a Focus on Cancer

The Department of Surgical Sciences – Radiology conducts research, distributed among several research groups, for the development and application of imaging and functional diagnostic methods. These methods are used in everything from experimental animal research to clinical trials on patients and large-scale epidemiological studies on volunteers. In the Radiological Image Analysis research group, we have specialized in advanced image analysis methods for improved diagnosis and follow-up of patients affected by various types of cancer. The members of the group have a multidisciplinary background and competence to produce cutting-edge technical research with high clinical relevance.

Duties
Image-generating methods such as computed tomography (CT) and positron emission tomography combined with CT (PET/CT) are routinely used in healthcare to detect, quantify, and monitor tumors and metastases in cancer patients. However, manual visual inspection and quantitative analysis of the extensive image information requires great accuracy and is therefore time-consuming. The PhD project aims to develop image analysis and visualization methods that support the physician in the inspection process, with the goal of increasing efficiency and precision. Techniques to be used include image registration, segmentation, and regression/classification using machine learning.

Requirements
To meet the entry requirements for doctoral studies, you must

- hold a Master’s (second-cycle) degree in in an area relevant to the PhD topic 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.

For this position an alternative is a medical degree. A strong background in medical image processing, image registration, 3D visualization, programming, and mathematics is meritorious.

Fluency in spoken and written English is a must.

You are expected to be able to teach in Swedish or in English.

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. The employment is for a maximum of five years and includes courses and at most 20% departmental duties. Scope of employment 100%. Starting date as soon as possible or as agreed. Placement: Uppsala

For further information about the position, please contact: Joel Kullberg (joel.kullberg@uu.se, +46-(0)73-9779386.). For administrative matters, contact human resource administrator Karin Johansson (karin.m.johansson@uu.se).

Please submit your application by 24 January 2024, UFV-PA 2023/4672.

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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Please do not send offers of recruitment or advertising services.

Submit your application through Uppsala University's recruitment system.

 Placement: Department of Surgical Sciences  
 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  
 Saco-rådet saco@uadm.uu.se  
 Seko Universitetsklubben seko@uadm.uu.se  
 Number of reference: UFV-PA 2023/4672  
 Last application date: 2024-01-24

Apply for position