

Engineer and Post-doc position - 3D avatar for Image Registration

The Inselspital, University Hospital Bern (www.insel.ch) is starting a KTI funded project with the University of Geneva (www.miralab.ch) and Nhumi Technologies GmbH (www.nhumi.com) as business partner to design a new system for navigating healthcare data using a 3D model of the human anatomy. The purpose is to enable patients and clinicians to see on a 3D avatar where images (e.g. X-rays, MRI's) have been taken and therefore to request a relevant image in a single click.

For this project, the Inselspital is looking for an experienced engineer or a post-doc with strong software development skills who would have the responsibility to design, implement and test innovative techniques to align or register a set of real medical images with artificially generated images from a standard model of the human anatomy. The candidate will be integrated in the team of the Inselspital and will also work closely with the development lab of Nhumi Technologies and should be at ease with both academic and industrial environment.

The candidate will be offered a competitive salary for two years and will have the opportunity to put his ideas at work in a challenging environment. As a member of a dynamic team, she/he will be asked to work independently and to communicate regularly about her/his activities.

Required skills:

- English speaking (German a plus)
- Literate in Java and strong programming skills. Knowledge of web services and javascript.
- Mathematical background or experience in Computational Geometry algorithms or 3D Graphics programming.
- Master of Science or PhD degree in Computer Science, Mathematics, Computer Graphics or related fields.
- Experience in image registration and medical informatics a plus.

Job location:

- Inselspital, Bern
- Nhumi Technologies, Zurich

Job duration:

2 years minimum

For more information, please do not hesitate to contact

Dr. med Michael A. Patak, Oberarzt
Institut für Diagnostische, Interventionelle und Pädiatrische Radiologie
Inselspital, Universitätsspital Bern
Freiburgstrasse
3010 Bern

michael.patak@insel.ch