Thesis supervision & research project offer (m/w)

SurgicEye GmbH

Who we are

SurgicEye is an engineering driven and growing enterprise, founded as a spin-off from an interdisciplinary engineering and medical team at Technische Universität München (TUM), which focuses the work on radio-guided applications in cancer diagnosis and treatment. Besides solutions in radio-guided surgery, we are developing a novel method for monitoring activity and doses for SIRT, a type of internal radiotherapy for liver cancer.

Our new system focuses on providing novel real-time dosimetry during the application of the therapeutic radioisotope. The aim is to guide the interventional radiologist by providing a spatial distribution and quantification of the injected radiopharmaceutical.

What we offer

- Simulation of radiological and nuclear medicine scenarios using a Monte-Carlo framework and experimental validation at our partner clinics
- Development and clinical integration of novel algorithms in image processing and computer assisted interventions
- Young, dynamic, interdisciplinary and international team
- Possibility to contribute to a cutting edge application for cancer diagnosis and therapy

What we are looking for

- Highly motivated bachelor and master students (physics, medicine, informatics, engineering as well as combined topics)
- Ready to take the extra mile and think outside the box
- Experienced in medical physics and physical processes involved in medical imaging
- Preferably knowledge of programming languages (Python, C/C++) and use of Monte-Carlo frameworks
- At least 3 months of time, ideally with plans to follow up the work

Want to join our team?

If the challenging assignment is of your interest we would be happy to arrange a meeting with you in our office at Friedenstr. 18A (Ostbahnhof).

Please send your application with CV and motivational letter by email to Dr. Joerg Traub at career@surgiceye.com.

For more information about SurgicEye GmbH please see www.surgiceye.com.

New Standards in tumor treatment Seeing hidden structures with 3D imaging for better diagnosis and guided therapy.

We care about the cure of cancer

