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

SURGICeye®