

For the Innovation Center Computer Assisted Surgery we are searching for a

## Research Group Leader (f/m – reference number 3897)

SONORAY-Tumor therapy combined by MR/ PET MR-guided focused ultrasound and radiation therapy



ICCAS was founded in Leipzig in 2005 at the second-oldest medical faculty and university in Germany as one of six ZIK Centres for Innovation Competence. It has since become successfully established as an internationally acclaimed interdisciplinary research institution.

### The challenges:

- The two ZIK Centers for Innovation Competence ICCAS in Leipzig and OncoRay in Dresden have joined forces to start a new multidisciplinary research project: SONO-RAY - Tumor therapy combining MR-guided focused ultrasound and radiation therapy under the leadership of Prof. Dr. Andreas Melzer.
- FUS-RT stands for combined treatment comprising focused ultrasound (FUS) and radiotherapy (RT). This approach is to be used to combine MR guided Focused Ultrasound (MRgFUS) and percutaneous radiotherapy. The aim of FUS-RT is to harness the synergistic effect of heat and the mechanical effects of both sound and ionizing radiation to improve the results of the radiooncological treatment of malignant solid tumors and metastases.
- The group at ICCAS will focus on cell and phantom experiments. The key issues are to develop the cell biological principles, conduct computer-assisted modeling, and evaluate the potential of the possible future clinical use of FUS-RT combination therapy.
- The group leader will be responsible for setting up and managing an interdisciplinary research group concentrating on focused ultrasound in Leipzig.

### Reasons that speak for you:

- Applicants should have an in-depth knowledge of ultrasound imaging, therapeutic focused ultrasound, magnetic resonance imaging, and simulation methods. Knowledge of biomedical engineering, computer science and medical robotics would be an advantage.
- Experience in managing a research program as well as proven expertise in MR and ultrasound are expected. Particular importance is attached to the ability to develop and lead an interdisciplinary team. In addition, experience in working closely with clinical users would be very useful.
- The Research Group leader will head his/her own research group consisting of three scientists. The research group will benefit from an above average budget and excellent infrastructure, and be supported by ICCAS's administrative and scientific staff. In addition, the successful candidate will be expected to play a teaching role in the existing academic and student environment.

Your contact person: Prof. Dr. Thomas Neumuth, telephone: +49 341 97-12001, E-Mail: [thomas.neumuth@iccas.de](mailto:thomas.neumuth@iccas.de)

If we have piqued your interest, we look forward to your application. Women are explicitly prompted to apply. Severely disabled candidates will be considered preferably in case of equal qualifications. We ask to not use application kits and to submit copies only, as your records privacy just destroyed upon completion of the application process.

Please send your usual documents until **April 30th, 2017** to the project leader:

Universität Leipzig  
Medizinische Fakultät/ ICCAS  
Prof. Dr. Andreas Melzer  
Simmelweisstraße 14  
04103 Leipzig  
[bewerbung@iccas.de](mailto:bewerbung@iccas.de)

For more information, please go to:  
<http://www.unternehmen-region.de/de/73.php>  
<http://www.iccas.de>

