

Open PhD student position at the iCMR Center at the University Hospital Lausanne, Switzerland

In fall 2024, a fully equipped interventional CMR center has started its research activity at the University Hospital Lausanne (CHUV), Switzerland. For this project, a PhD student position is open to start in 2025. We are looking for candidates with a strong interest in developing tools to allow guiding catheters in the MR environment, to localize the target structure in space and time, and to control treatment effects with dedicated pulse sequences, all within the iCMR system. A key target is also the further development of the augmented virtual-reality-based iCMR simulator.



Experience in C++ & Matlab programming is a requirement while experience with IDEA/ICE programming is a distinct advantage. To move the project forward with a high pace, strong dedication to the project is a prerequisite as is good competence, self-initiative, and creativity. The iCMR center runs as a joint project between the CMR Center of the CHUV (Prof. Schwitter), the CIBM-CHUV-MR Center (Prof. Stuber), and the Cardiology and Radiology divisions of the CHUV. While the candidate would collaborate with a large team of engineers and physicists dedicated to MR research, s/he should also be motivated to work together with various basic science and clinical science oriented research groups and with industry to promote this interdisciplinary project.

The University Hospital Lausanne and CIBM-CHUV-MR offer an international and world-leading research setting with first class infrastructure including the full range of clinical and experimental MR systems as well as the new interventional cardiovascular MR Center.

For further information about the position and the group, please contact Prof. Dr. J. Schwitter, University Hospital Lausanne, Director Cardiac MR Center and iCMR Center (jurg.schwitter@chuv.ch) or Prof. M. Stuber (Matthias.Stuber@chuv.ch), University Hospital Lausanne, Director CIBM-CHUV Center

Please submit your application via email to J. Schwitter, MD, or M. Stuber, PhD, including a cover letter, a detailed CV, study subjects including grades and contact information of two referees.