

ENGINEER POSITION IN CARDIAC IMAGING



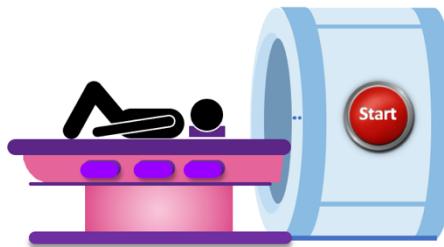
Position factsheet

THE INSTITUTION

IHU LIRYC – Electrophysiology and Heart Modeling Institute – is a unique institute based in Bordeaux distinguished for its expertise in heart rhythm disorders with a medley of world-renowned experts working in various fields (clinical, imaging, modeling, artificial intelligence, computer science, ...). The research performed over the years at LIRYC has created a dynamic and unique intellectual atmosphere where scientists can conduct cutting-edge research with the sole goal of improving cardiac patients care.

POSITION DURATION

The position is available immediately and for the expected duration of 12 months. With the possibility of prolongation. The research project will be in strong collaboration with the Centre Hospitalier Universitaire (CHU) of Bordeaux and industrial partners, including Siemens



REQUIREMENTS

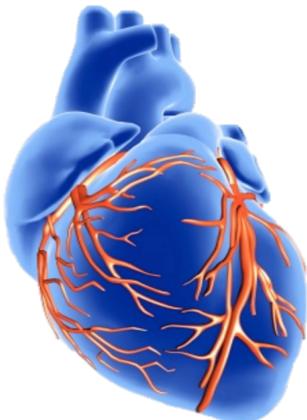
Candidates must fulfil the following:

- Must have completed a Master or PhD degree in the fields of medical imaging, computer science, or engineering.
- Computer programming skills are a requirement (Matlab, C/C++, Python).
- Experience in MR programming (IDEA, ICE, Fire, or Gadgetron) would be beneficial but is not a prerequisite.
- Highly motivated, well-organised, and eager to learn in a multidisciplinary and innovation-driven environment.

Project Description

The imaging team at IHU-LIRYC has recently developed a new technology enabling the first-ever coloured representation of myocardial scarring using cardiac magnetic resonance imaging. To push its clinical acceptance, our existing reconstruction framework will need to be implemented, optimized, and validated on our clinical MRI scanners. This will require the use of C/C++ libraries (e.g., ITK, MKL), reconstruction framework (Gadgetron, Fire) and artificial intelligence-based tools (TensorFlow, Pytorch, Spyder).

To apply: Should you be interested, please submit a CV to Prof. Aurelien Bustin (aurelien.bustin@ihu-liryc.fr)
This position is part of the ANR JCJC HEARTFACT – AAPG 2021.



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