

## Post-doctoral position in medical image processing

ICube, University of Strasbourg, France

<http://icube.unistra.fr>

**Duration:** 12 months

**Starting date:** as soon as possible in 2016

**Context:** This position is funded by the ANR project VIVABRAIN (virtual angiography simulation from 3D and 3D+t brain vascular model; <http://vivabrain.fr>). The VIVABRAIN project aims to develop a full methodological and software pipeline for Magnetic Resonance Angiography (MRA) simulation from real 3D acquisitions. These research works, initiated in 2013, are based on a pluri- and interdisciplinary collaboration between French research labs in Computer Science, Mathematics, Physics and Medicine. They also involve Kitware, the world leader of open-source software for medical imaging.

**Topic:** The purpose of this position is to develop innovative methods and tools for tackling the following issues:

- 3D angiographic image registration;
- vascular atlas generation design;
- semi-automated 3D vascular model generation.

These works will be carried out in interaction with other PhD students, researchers and developers involved in the project.

**Required background:** The recruited candidate must have a PhD in Computer Science (or, alternatively, in Image or Signal Processing). From a methodological point of view, he/she should have a strong expertise in image processing and optimization, especially in medical imaging. He/she should also have high skills in software development, especially in Python, C++ and ITK.

**Gross salary:** 2900 euros

**Application:** Send by email a Curriculum Vitae, a motivation letter and a link toward homepage and PhD document (English or French) to Benoît Naegel ([b.naegel@unistra.fr](mailto:b.naegel@unistra.fr)) and Vincent Noblet ([vincent.noblet@unistra.fr](mailto:vincent.noblet@unistra.fr)).

