

Position available:

**Experienced Postdoc or Invited Professor position
opening in Grenoble, France**

This job position is supported by the LABEX CAMI, <http://www.cami-labex.fr/>

Position location: TIMC-IMAG Laboratory, Grenoble.

TIMC-IMAG (Techniques for biomedical engineering and complexity management – informatics, mathematics and applications – Grenoble)

Contact: Sandrine Voros, Sandrine.Voros@imag.fr

Duration of Contract: At least 2 years of contract

Salary Range: Depending on the expertise of the candidate (from post-doctoral level to senior expertise)

Reference: CAMI/IP/2015

Deadline for application: 06/30/2015

1. The CAMI context

Medical Interventions (surgery, interventional radiology, radiotherapy) can provide a significant boost for progress in terms of patient-specific optimal planning and performance. To fulfill patient's demand for Quality, Senior Operators demand to see beyond the immediately visible, to be assisted in their real-time vital decisions and to accede to enhanced dexterity, while junior operators request to "learn to fly" before being left alone, and Public Health Authorities and companies require demonstration of the Medical Benefit of innovations.

The Computer Assisted Medical Interventions LABEX (CAMI LABEX) strategic vision is that an integrated approach of medical interventions will result in a breakthrough in terms of quality of medical interventions, demonstrated in terms of medical benefits and degree of penetration of CAMI technology in routine clinical practice.

In the frame of Labex CAMI, TIMC-IMAG / CAMI team (www-timc.imag.fr, www-timc.imag.fr/cami) invites qualified senior applicants (experienced postdoctoral fellow or professor) to submit their curriculum vitae for a Researcher position in the field of Computer Assisted Medical Interventions (CAMI) in Grenoble, France.

2. Required profile

We are seeking a highly motivated candidate with a strong background in Computer Vision, Image Processing and Software/Hardware Integration, with a focus on intra-operative multimodal imaging. A previous multidisciplinary postdoctoral experience of at least two years is required, and applications from senior researchers are welcome. A background in robotics will be considered favorably.

The Researcher will carry out multidisciplinary research around:

- the innovative fusion of multimodal data obtained by novel or classical sensors,
- the assistance to real-time decision-making through high-level planning and monitoring of the intervention related to the activities of the CAMI team.

He/she will work in collaboration with other French laboratories in the CAMI field within the CAMI Labex (<http://cami-labex.fr/>).

In this context, the researcher will be specifically in charge of designing and developing new systems for laparoscopic surgery, based on the fusion of endoscopic images and innovative per-operative modalities (e.g. but not exclusively Ultrasound, Fluorescence, OCT...), possibly including robotic systems. He/she will collaborate closely with clinicians and may be implicated in pre-clinical evaluations and preparation of first clinical trials of the developed systems.

The researcher will be expected to publish his/her research in leading international journals and conferences in the field, participate in the supervision of PhD students and postdocs, contribute to the collaborative projects within the Lab and the Labex CAMI. He/she will potentially be involved in teaching activities. In the longer term, this position could lead to a tenure position in the University of Grenoble.

3. Required background

PhD in the CAMI field, postdoctoral experience (>2 years in academia or industry), Computer Vision & Image analysis, C++ programming (with experience in QT, ITK/VTK, OpenCV, OpenGL), a background in Robotics is a plus.

Job offer: at least two years contract, salary & benefits in line with the international standards, depending on the expertise of the candidate (from post-doctoral level to senior expertise)

4. Application Process

- A detailed Curriculum Vitae with 5 publications and a research statement (3-5 pages) should be submitted in pdf format to Sandrine.Voros@imag.fr, with the reference of the offer in the title of the email.

- Applicants should request 3 recommendation letters from international experts with whom they collaborated, who should send them directly to Sandrine.Voros@imag.fr, with the reference of the offer in the title of the email.