

Postdoctoral Position in Medical Imaging - January 2018 – 2 years

Plan Cancer-funded postdoctoral position in medical imaging with a focus on magnetic resonance imaging and malignant brain tumour growth modelling is available in the Toulouse NeuroImaging Centre, France.

The INSERM Unit 1214 ToNIC (Toulouse Neuro Imaging Center) DEVIN team (DEveloppement et Validation de biomarqueurs en IRM et médecine Nucléaire) in Toulouse; together with the INRIA Bordeaux Project team MONC (Modeling in ONCology) has one post-doctoral position in the project of the Plan Cancer 2014-2019: Tumor Heterogeneity and Ecosystem Program.

MoGlimaging (Modeling of Glioblastoma treatment-induced resistance and heterogeneity by multi-modal imaging) aims at modeling in vitro and in vivo the GBM heterogeneity to predict tumor pattern of resistance and treatment induced resistance mechanisms. An interdisciplinary consortium will study i) in vitro the treatment-induced plasticity, migration, cell/cell and microenvironment interactions via tunnelling nanotubes, ii) in vivo imaging of GBM heterogeneity via Magnetic Resonance histology, iii) will model GBM treatment-resistance defined by multi-modal MRI data.

Expected activities focus first on the in vivo multimodal MR imaging analysis from the STEMRI clinical trial (NCT01872221), and second on tumor heterogeneity and treatment-resistance modeling.

Image Processing Post-Doctoral Position

Mission

The Post-Doc is responsible of the multi-modal imaging index definition, the clustering of the acquired data and the extraction parameters from in vivo clinical imaging data for in-pu into the mathematical model. The Post-Doc will also interact with the different working groups by sharing the relevant imaging parameters to the consortium.

Eligibility

Applicants must have PhD degree in image processing, computer sciences, physics, signal processing, mathematics or a similar field

Profile

Candidate should fulfill the following requirements:

- Good programming skills (eg, matlab, etc.)
- Knowledge in signal and image processing
- Interest in medical image processing
- A high standard of English (though French is the working language of the project).

Position information

- 24-month working contract at the INSERM unit 1214 ToNIC DEVIN Team with several travels to Bordeaux in the MONC Team.
- Multi-disciplinary and competitive translational programme with possibility of short stays in partner labs (MONC, Bordeaux et Institut de Neurosciences, Grenoble)
- Preferred starting date: January 2018.

Application

Your application should include:

- Curriculum vitae
- Publications list, including talks, PhD thesis, master thesis, projects that are available on line, etc...
- A short personal statement within a cover letter for this position
- Names of supervisors that can be contacted for references

If you are interested in this post-doctoral position, please contact **Vincent Lubrano, MD, PhD** (vincent.lubrano@inserm.fr)

Applications will be considered until the position is fulfilled.