



RESEARCH AND DEVELOPMENT ENGINEER

We are looking for a research and development engineer, for a one year position (extension of additional 6 months possible) at the **Lausanne University Hospital**, together with the **Radiology and the Psychiatric Departments**.

Activities:

- Research and development of **diffusion and resting state functional MRI analysis**, including **Connectome** studies
- Study the effect of a pharmaceutical intervention on **brain connectivity**.
- Applying rigorous **group-wise analysis** on large dataset and ensuring thorough problem tracking and resolution.

Profile:

- **At least 2 years of experience in research in the field of diffusion and functional resting state MRI, ideally in connectomics.**
- MSc with at least 2 years of research and development experiences or PhD degree.
- BSc or MSc completed in **computer neuroscience; electrical engineering or math/physics**.
- Strong background in image processing methods.
- Strong programming skills, good knowledge of C++, ITK, and neuroimaging software will be a plus.
- Experience of development under Matlab.
- Good writing skills in English.
- Rigorous work habits, a curious and critical mind, and a good sense of initiative.
- A high-level perseverance and a strong personal commitment are expected.

We offer:

- a multidisciplinary project between cutting-edge brain imaging and advanced image processing, clinical context, and fundamental neurobiology;
- an extremely stimulating field of research within a highly specialized and qualified scientific environment.

If you recognize yourself in this profile and want to take up a new challenge, address your complete application (CV, list of publications and 2 references) **before September 4th 2017** to: patric.hagmann@chuv.ch and Meritxell.BachCuadra@unil.ch .