## Tech/Engineer position in the brain and spinal cord institute (ICM), Paris.

**Type of contract:** 12 month contract, renewable long term. Compensation based on previous experience.

**Description of the work:** Work will be performed in the laboratory of Claire Wyart, focusing on the optogenetic dissection of the spinal circuits underlying locomotion. The new recruit will ideally provide technical assistance towards a gene expression screen we recently performed, applying CRISPR-mediated gene-editing and *in situ* hybridization to zebrafish embryos and larvae.

The technician / engineer will focus on the generation and molecular characterization of zebrafish mutants using CRISPR technology, including:

- Injection of DNA, RNA, and protein into zebrafish embryos,
- Screening by fluorescent marker expression and by PCR-based genotyping of transgenics and mutants in collaboration with the genotyping core facility,
- Basic molecular biology (DNA extraction, plasmid purification, RNA synthesis, RT-PCR, cloning, etc.),
- Fluorescent in situ hybridization (FISH) in whole mount or in slices,
- Fluorescent immunohistochemistry,
- Confocal imaging on live embryos, larvae, and fixed tissue.

Expertise required:

- strong training in molecular biology,
- zebrafish experience highly appreciated.

## Start date:

Flexible between June and September 2016.

## Please send your CV, motivation letter, and contacts of 3 references to: claire.wyart@icm-institute.org

## Key publications:

- (1) Wyart, Del Bene, et al., Nature 2009.
- (2) Del Bene, Wyart, et al., Science 2010.
- (3) Mirat et al., Frontiers in Neural Circuits 2013.
- (4) Djenoune et al., Frontiers in Neuroanatomy 2014.
- (5) Fidelin et al., Current Biology 2015.
- (6) Bohm, Prendergast et al., Nature Communications 2016.