

## ENGINEER POSITION – Biochemical analysis of T-type calcium channel proteome in pain neuronal networks

**BOURINET Lab** (Calcium channel dynamics & nociception)

**Institut de Génomique Fonctionnelle, Montpellier, FRANCE**

### Job description

An engineer position (IE level) in biochemistry is immediately available in the group of E Bourinet, funded by the Agence Nationale pour la Recherche. The appointment will be made for 20 months, starting as soon as possible. The engineer will use biochemical approaches to immunoprecipitate the GFP tagged Cav3.2 calcium channel from spinal cord and brain of Cav3.2-GFP KI mouse generated in the team. The approach will use a panel of anti GFP nanobodies that will need to be produced. The engineer will team up with a postdoc and researchers in the lab to identify Cav3.2 partners in neuronal networks implicated in chronic pain in relation with the main project of the team aimed at understanding Cav3.2 impact to pain pathophysiology.

*Francois et al (2015) Cell Rep.10(3) 370-382; Garcia-Caballero et al. (2014) Neuron 83(5):1144-1158 ; Marger et al. (2011) Proc Natl Acad Sci U S A 108(27):11268-11273. Bourinet et al. (2005) Embo J 24(2):315-324. ; Reynders et al. (2015) Cell Rep 10(6):1007-1019. ; Francois et al. (2013) Pain 154(2):283-293.*

### Qualification

We are seeking highly motivated and skilled candidates (level ingénieur d'étude) with a solid expertise in biochemistry (immunoprecipitation, co immunoprecipitation, proteomic, protein production in bacteria, molecular biology) and in rodent manipulation (injections, perfusion, dissections) to succeed in identifying Cav3.2 partners within the channel signaling complexes in neurons involved in pain perception. The applicant will work in a team environment as well as with the IGF proteomic platform to advance scientific programs funded by the ANR and the Fondation pour la Recherche Médicale.

### Salary

Funding for 20 months (10 months renewable).

Monthly salary of 2004 to 2260€ depending on experience (1614 to 1840 € net)

### To apply

Send a letter of intent, a full CV, and contacts of 2 reference to

[emmanuel.bourinet@igf.cnrs.fr](mailto:emmanuel.bourinet@igf.cnrs.fr)