



## Research engineer position in network biology

### Systems genetics of cardiac aging in Drosophila

Archi-Old-Heart is a project of systems genetics, recently funded by the A\*MIDEX foundation of Aix-Marseille Université. The project aims to decipher the natural variations associated with cardiac ageing in Drosophila using an interdisciplinary approach associating genetics, biostatistics, machine learning and network bioinformatics. The project involves the TAGC laboratory in Marseille, France (Laurent Perrin and Christine Brun teams) and the Sanford Burnham Prebys Medical Discovery Institute in La Jolla, California, USA (Rolf Bodmer and Karen Occor team).

### Engineer Activities:

- Use available Genome Wide Association Studies (natural variants associated to cardiac phenotypes) results for characterizing molecular networks associated to cardiac aging, including gene regulatory networks.
- Perform validation assays, including quantitative PCR and heart performances measurements.

### Searched Profile:

PhD in one of the following fields: genomics, genetics, network biology, systems biology

### Job-related skills:

- Data analysis and statistics (R)
- Network analysis (Cytoscape)
- Knowledge of drosophila genetics and/or of Genome Wide Associations analyses is an asset.
- Curiosity, taste for interdisciplinary work.

### Behavioral skills:

- Good team player, strong motivation, rigor, autonomy and resourcefulness.

Duration : 2 years, starting in November 2019.

Location : TAGC, U1090 Inserm, Aix-Marseille Université, Marseille France

Salary complies with university rules.

Please email your CV + cover letter by June 15, 2019 to [laurent.perrin@univ-amu.fr](mailto:laurent.perrin@univ-amu.fr) and to [christine-g.brun@inserm.fr](mailto:christine-g.brun@inserm.fr)