



## Network bioinformatics of cardiac ageing 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).

We are proposing an **engineer position** to develop, evaluate and apply a new method to quantify network perturbations. For this, we look for a PhD in one of the following fields: Computer Science, Applied Mathematics, Applied Statistics and Probabilities, Network Biology, Data integration.

### Job-related skills

- Skills in graph theory and combinatorics
- Taste for methodological work and development/assessment of new methods
- Knowledge in genetics is an asset.
- Curiosity, taste for interdisciplinary work.
- Programming : Python, R.
- Fluent in english.

### Behavioral skills

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

Duration: 2 years, starting in November 2019.

Net salary: Between 1600 and 2700 € depending on experience.

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

Please email your CV + cover letter + recommendation letters by **June 15, 2019** to [christine-g.brun@inserm.fr](mailto:christine-g.brun@inserm.fr) and [lionel.spinelli@inserm.fr](mailto:lionel.spinelli@inserm.fr)