



Marseille
Medical
Genetics



Postdoctoral position in Computational Biology / Network Biology / Bioinformatics

Keywords: Networks, Systems Biology, Computational Biology, Mathematical modeling

The *Networks and Systems Biology for Diseases* group in the Marseille Medical Genetics Unit (MMG, Inserm – La Timone Medical faculty – Aix*Marseille University) has an opening position for a Postdoctoral fellow.

Project

The goal of the proposed project is to better understand the genotype-phenotype relationships of rare monogenic diseases thanks to modeling strategies. The applicant will establish and analyze mathematical models of regulatory networks focusing on the genes and pathways involved in rare monogenic diseases of interest. She/He will further develop strategies to integrate -omics data, in particular exomes and transcriptomes, in the modeling process.

The successful applicant will work in an interdisciplinary team of computational biologists, bioinformaticians and systems biologists, involved in the development of network approaches for human diseases. The project will be developed in close collaboration with biologists and clinicians experts of the diseases of interest in the MMG unit. Our group also has strong theoretical roots, and the applicant will have the opportunity to collaborate closely with members of the MABIOS group from the Marseille Mathematics Institute.

Qualifications

PhD in Computational Biology, Bioinformatics, Computer Science, Applied Mathematics, Systems Biology or related fields. Experience in the design and implementation of algorithms applied to the analysis of a variety of biological data, as well as strong analytical programming (R, Python...), and communication skills are essential.

Please make sure your application includes a letter of motivation, a list of publications, a detailed CV and the contact information of 2 references (including email addresses and phone numbers).

Offer

Fully-funded position for 2 years in Marseille, a vibrant city from the south of France. The starting date is expected in February/March 2019. The salary will be based on experience. The MMG Unit is located in the La Timone faculty of Medicine campus, close to the hospital, and is leader in the field of rare genetic diseases.

Application can be sent directly to “[anais.baudot – at – univ-amu.fr](mailto:anais.baudot@univ-amu.fr)”
<https://www.marseille-medical-genetics.org/a-baudot/>