



Computational Biology Lab

Postdoctoral Researcher

The Computational Biology Group at CIC bioGUNE seeks two highly skilled and motivated postdoctoral researchers to work on an exciting project that aims at the development of computational approaches for designing neuronal cell conversion protocols. In particular, the selected candidates will employ multiOMICs data for developing computational models of gene regulation to predict conversion factors that induce desired cell subtypes with high efficiency and fidelity. The effectiveness of the conversion will be demonstrated in disease models of Alzheimer's Disease, Stroke and Epilepsy. The project is carried out in close collaboration with an international consortium of renowned experts in neurological disorders, who will also conduct the experimental validation of the computational predictions.

The Computational Biology Group aims at establishing a solid infrastructure to develop theoretical frameworks for computational modeling of biomedical problems, especially in the area of network biology. The group closely collaborates with leading national and international experimental labs with a particular interest in stem cell research and regenerative medicine.

<https://www.cicbiogune.es/people/adelsol>

Essential skills and qualities

- Ph.D. degree in computational biology, bioinformatics, biology, computer science, physics or a related discipline.
- Strong computational skills in at least one programming language (e.g. R or Python).
- A strong publication record in related fields.
- Excellent communication and working knowledge in English.

Ideal skills

- Prior experience in computational systems biology
- Prior knowledge about transcriptional regulation and the prediction of cellular conversion factors
- Experience in working in a multi-disciplinary research environment

We offer

- Opportunity to do highly interdisciplinary research to solve complex biomedical problems within a dynamic research institution (CIC bioGUNE) and in collaboration with internationally recognized partner
- An exciting international environment

Application deadline: 01 December, 2023

Application procedure

Candidates should submit a full CV and a cover letter using the following [form](#) and indicating [42191](#) as reference.