COMPUTATIONAL BIOLOGY PHD STUDENT

Company Description

CIC bioGUNE is a non-profit biomedical research organization founded in 2002. Since then, CIC bioGUNE has been playing a strong role in advancing biomedical research and technological innovation in the Basque Country. To support the research activities of The Center's scientists and students CIC bioGUNE initially made an investment of more than 35 millions in state-of-the-art research infrastructure - in genomics, proteomics, metabolomics, NMR, electron microscopy, X-ray diffraction, and computer and animal facilities, among others. Our missions cover different aspects: the development of high-level Science, including fundamental research, industrial research and experimental development, high-quality training, institutional cooperation, internationalization, and dissemination.

Information

Deadline: 2025-02-19
Category: Academia
Province: Bizkaia
Country: Basque Country
City: Bilbao

Company

CIC bioGUNE

Main functions, requisites & benefits

Main functions

The Computational Biology Group at CIC bioGUNE seeks a highly skilled and motivated PhD student to work on an exciting project that aims at developing a computational framework to design protocols for the generation of committed progenitors that are relevant for cell therapies in spinal cord injury. In particular, the successful candidate will develop single-cell RNA-seq based computational methods and statistical models for cellular conversion that will be applied to design novel regenerative medicine strategies in the context of spinal cord injuries. In this regard, the successful candidate will maintain the CBGs long-standing collaboration track with experimental biologists to validate the proposed strategies.

Requisites

Msc Degree in Bioinformatics, Biology, Computational Biology, Computer Science, or a related discipline. First experience in NGS-based analyses of transcriptomics data. Good command of at least one of the following programming languages: R, Python. Prior experience in mathematical modelling of biological networks is an asset. Excellent working knowledge in English.

Benefits

Opportunity to do research into biomedical problems within a highly dynamic research institution (CIC bioGUNE) and in collaboration with an internationally recognized partner. An exciting international environment. A fully-funded PhD position.