European Commission | Horizon 2020 European Union funding for Research & Innovation

NSC-Reconstruct

Karolinska Institutet

Computational biologist / Data manager

to work on "Single cell analysis of neural development, disease and regeneration"

We invite applications for a data manager position in the laboratory of Professor Ernest Arenas Lab: http://ernestarenaslab.org/. The positions will be placed in the Division of Molecular Neurobiology, a cluster of 7 research groups forming a vibrant, dynamic, collaborative and international research environment within the MBB department. Our lab is located in Stockholm, in one of the most modern research centers in Northern Europe, Biomedicum, within a world leading University, the Karolinska Institute. Our lab offers an exciting, interactive, inclusive and collaborative research work environment, where you can develop your career and do science that can make a difference.

Your mission

We look for motivated computational biologists interested in managing, organizing and mining the single cell datasets generated by the **NSC-Reconstruct Network** (Novel Strategies for Cell-based Neural Reconstruction) funded by the European Union Horizon 2020 research funding framework program.

The selected candidate will also work to analyze single cell RNA-seq data from the consortium investigating the developing human brain, adult brains from controls and patients suffering neurological disorders, neural differentiation of human pluripotent stem cells in monolayer or organoids, astrocyte-to-neuron reprogramming, or cell replacement strategies in animal models of disease.

The NSC-Reconstruct project represents a joint European effort of leading teams and will involve collaboration and interaction with research teams across Europe.

The successful candidate will interact with other computational biologists in the network and in our laboratory, and with researchers performing the experiments. The selected candidate will participate in seminars, as well as in networks and scientific meetings at national and international level.

Your profile

You are a master, PhD or Postdoc or Researcher with a solid training in systems or computational biology, and you have experience in one or more of the following: scripting (e.g. Python, R, Perl), analysis of single cell transcriptomics data, transcriptional networks, machine learning or neural networks. You manage your own bioinformatics pipelines, you like to interact with other computational biologists and wet-science researchers, and you have a good command of written and spoken English.

You have some knowledge of Neuroscience, Neurology, Genetics, Genomics, Molecular or developmental biology. You want to learn about the molecular mechanisms controlling brain neural development, disease and regeneration and you would like to contribute to the development of future cell replacement therapies.

What do we offer?
We offer a two-year position, with possibility of extension.
Karolinska Institutet offers several benefits to its employees such as extended holiday, generous occupational pension, free access to a modern gym and reimbursements for medical care.
Most importantly, you will have the opportunity to address challenging research questions, to think independently and to develop high impact research. The post will provide a unique opportunity enjoy a creative, interactive, interdisciplinary and international academic environment who seek personal development.
Karolinska Institutet is one of the world's leading medical universities and home of the Nobel Prize in Medicine or Physiology. We conduct cutting edge medical research and hold the largest range of medical education in Sweden. Our mission is to gain biomedical knowledge and improve human health.

Application
An employment application must contain the following documents in English:

1. A complete curriculum vitae, including date of the thesis defence, title of the thesis, previous academic positions, academic title, current position, academic distinctions, and committee work
2. A complete list of publications.
3. A letter of motivation describing current/previous work and research interests (no more than one page).
4. Verification of master or PhD thesis defence or the equivalent (only if the thesis defence is scheduled within three months after the application deadline).

In assessing candidates we will place our emphasis on the personal trajectory, motivation, education, personal and technical skills, CV, merits and previous experience.

For more information please contact: Ernest Arenas / Professor ernest.arenas@ki.se