

## Computational Biologist - Job Description

### The Company

STALICLA is a biotech company developing a first in class precision medicine platform to accelerate drug development for patients with Neurodevelopmental Disorders (NDDs). First focus of development has been Autism Spectrum Disorder (ASD). Today, patients diagnosed with ASD account for 1-1.5% of the world population and the condition remains a high unmet medical need.

In its Geneva and Barcelona units, STALICLA has assembled a world class team of experienced drug developers and computational biologists. The company is recognized as a disruptive player, using its Systems Biology & statistical modelling platform to identify subgroups of patients with ASD and corresponding candidate drugs.

It is the first time that such technologies have been utilized within the field of neurodevelopment with the potential to change the direction of the specialty.

**In just over 3 years, the STALICLA platform has already proven successful in expediting and de-risking drug development for a first subgroup of patients with Autism and identifying two additional subgroups.**

### Background

STALICLA is expanding on its Discovery and Data Science (DDS) unit in Barcelona. The DDS unit of STALICLA in Spain focuses on the identification of subgroups of patients based on genetic, phenotypic and clinical factors, integrating molecular, anatomical and medical data via computational systems biology. Through biomedical big data analysis, the research unit leverages on existing molecular entities to bring tailored treatments to patients with NDDs. The fundamental elements of STALICLA research platform include the computational analysis of omics data (proteomics, genomics, transcriptomics, metabolomics, etc.), clinical text mining and personalized systems medicine. The main analyses involve bioinformatics, statistical modeling and machine learning centered on the biology of diseases, comorbidities and pharmacology.

### Position

Title: Computational Biologist

Location: World Trade Center, Barcelona

Duration: Permanent

Salary: Competitive - depending on experience and profile

*Candidates living Barcelona or EU and able to relocate rapidly would be preferable.*

### The role

The computational biologist will work closely with the other members of the unit and contribute to updating STALICLA's proprietary knowledge bases towards the characterization of "targetable" molecular, genetic and clinical features in neurodevelopmental disorders. S/he will participate in processing and analyzing large scale

biomedical data within the context of ongoing computational systems biology projects, ranging from the identification of biological pathways associated with ASD and comorbid neurodevelopmental disorders, to the improvement of our next generation sequencing (NGS) and clinical data mining pipelines. In that context, s/he will be in charge of monitoring analysis and producing high-quality reports and log files to ensure reproducibility. Candidates with previous experience on NGS (genomics and/or preferably transcriptomics) and microarray data analysis, as well as cloud computing, or who are open to learning these skills, are preferred.

### Work environment

The STALICLA DDS office is located by the sea, overlooking the port of Barcelona and it has easy access to the public transportation. Perks at the office include free coffee, tea and fresh fruits.

### Desired skills & software

#### *Needs to have*

- Linux, shell scripting
- R (+Bioconductor) and/or Python
- Demonstrable experience in the analysis of RNA-seq and/or microarray data
- Experience with cluster and/or cloud computing (AWS preferred)

#### *Nice to have*

- Experience with other NGS techniques (preferably genomics, i.e. WGS, WES)
- Experience with text mining and NLP (preferably on clinical and biomedical text)
- Background in the field of NDDs
- Git, Makefile, Nextflow (or equivalent), Docker
- MySQL, Neo4j, MongoDB or equivalent

In addition, the candidate is expected to have:

- A high comfort level working in a high paced start-up environment, where a pragmatic, resourceful, well organized and effective approach is required with limited resources
- A hands-on, decisive approach and a proven ability to work independently and as a team player
- Excellent communication skills in English
- A passionate, energetic and enthusiastic personality that will ensure commitment to the company and its vision

### Application procedure

Please send a copy of your CV along with the info on your availability to [info@stalicla.com](mailto:info@stalicla.com)