

Barcelona, February 6, 2020

## Software engineer / Full stack developer

### The Company

STALICLA is a patient-centric biotech company on a unique mission to identify, develop and bring precision medicine to patients with neurodevelopmental disorders, with a first application in autism spectrum disorder.

STALICLA has assembled a world-class team of experienced drug developers, clinicians and computational systems biologists.

DEPI, the company's unique drug discovery platform, characterizes biologically similar subgroups of patients within highly variable populations of patients with neurodevelopmental disorders, and further identifies tailored treatments.

To support its drug discovery platform and pipeline development, STALICLA has established strong networks within top tier research and clinical centers.

STALICLA's platform has already proven successful in expediting and de-risking a first pipeline, STP1, tailored to a subgroup of patients with autism spectrum disorder which will be entering clinical trials this year. In addition, STALICLA's R&D unit is currently advancing new precision medicine pipelines for two additional groups of patients with ASD.

### Background

STALICLA is expanding on its R&D computational systems biology unit in Barcelona. The research and development unit of STALICLA in Spain focuses on the identification of subgroups of patients based on genetic, phenotypic and clinical factors, integrating multiple levels of medical data. This data is then leveraged to identify treatments candidates tailored to individual subgroup of patients with NDDs. The fundamental elements of STALICLA's research platform include the computational analysis of omics data (proteomics, genomics, transcriptomics, metabolomics, etc.), clinical text mining and personalized systems medicine. Analysis involves statistical modeling and machine learning centered on the biology of diseases, comorbidities and pharmacology.

### Position

Title: Software engineer / Full stack developer

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 software engineer / full stack developer will work closely with the other members of the unit and contribute to the design, implementation and maintenance of the data warehouse and web-based analysis platform. The platform provides an interface to the clinical and genetic data underlying computational models as well as to the clinically actionable information across individuals obtained using algorithmic systems biology-based analyses. The candidate will play a key role in contributing to the development of a clinically highly relevant software platform towards the characterization of “targetable” molecular, genetic and clinical features in neurodevelopmental disorders. S/he will participate in the integration of biomedical data analysis pipelines within the context of ongoing computational systems biology projects such as clustering patients with ASD and comorbid neurodevelopmental disorders and automation of in-house next-generation sequencing and clinical data mining pipelines on the cloud. Candidates with previous experience on building web-based frameworks, mining of clinical annotations and biomedical scientific text, workflow development, and cloud computing, or who are open to learning these skills, are preferred. The ideal candidate will have a master’s degree in Computer Science, Computer Engineering, Information Technology, or a related field (or equivalent – through a combination of education and work experience).

## Work environment

The STALICLA R&D 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

- Proficient coding in Python and/or Java
- Web programming and RESTful APIs (jQuery / Django / Flask / Pyramid / Bootstrap / React / Angular / NodeJS or equivalent)
- MySQL, PostgreSQL, Neo4j, MongoDB or equivalent
- Git(Lab), Docker, Kubernetes, Jenkins, Travis
- Cloud computing (AWS preferred) and big data analytics (Hadoop / Spark)
- Linux, shell scripting, R, Makefile, Nextflow (plus)
- Experience with NLP toolkits / biomedical text mining (plus)
- Good communication skills in English
- A passionate, energetic and enthusiastic personality

## Desired capabilities

- Demonstrable knowledge of OOP, clean coding, TDD and CI/CD
- Previous experience with web programming, RESTful APIs and frameworks
- Build and optimize STALICLA R&D’s web-based analysis platform integrating computational pipelines that summarize and visualize large scale interconnected biomedical and clinical data

- Deploy existing computational pipelines on the cloud to enhance scalability, as well as data security, by using advanced security features
- Contribute to the strategical planning and development of the automated clinical annotation, biomedical text mining and data-driven systems biology frameworks

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
- Ability to work in a multidisciplinary and international environment

### Application procedure

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