

Barcelona, February 6, 2020

Software engineer / Full stack developer

The Company

STALICLA is a near clinical Company developing a first in class precision medicine platform to accelerate drug development for patients with Neurodevelopmental Disorders (NDDs). The company's First focus of development has been Autism Spectrum Disorder (ASD).

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 key player in the NDD space, using its DEPIv3 innovative systems biology AI platform. DEPIv3 integrates domain specific large-scale genetic, molecular, pharmacological and clinical data to define patient subgroups and to identify personalized treatments.

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 less than 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.

STALICLA's first therapeutic package - STP1 - addresses this first distinct subgroup of ASD patients estimated to 1.5 - 2M.

To support its platform and pipeline development, STALICLA has developed a network of top tier research and clinical partners in the US.

STALICLA is currently scaling up DEPIv3 to advance new pipelines for additional groups of patients with NDDs.

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