

Barcelona, May 24th, 2021

Data Engineer Associate

The Company

STALICLA SA is a Swiss clinical stage biopharmaceutical company leading omics-based precision medicine drug development for patients with neurodevelopmental disorders (NDDs), with a first application in Autism Spectrum Disorder (ASD).

STALICLA is on a unique mission to identify clinically actionable patient subgroups and develop tailored treatments for those most impaired by their symptoms.

Its DEPI technology is the first platform specifically developed to enable precision medicine in complex NDDs. The platform integrates comprehensive metabolomics, whole-genome sequencing, RNA sequencing and its advanced HC match module to pair patient biological signatures with drug candidates. DEPI has reached clinical proof of concept with its first pipeline candidate, STP1, currently in clinical trials in the US.

In 4 years, STALICLA has validated its platform model and proven its potential to significantly accelerate the time to clinic developing STP1 as a first in class precision treatment for a biological subgroup of patients with ASD (this group ASD-Phen1 is estimated to represent 1.5 - 2M people in the EU and North America). STP1 entered clinical trials (Phase 1b), in the US, in December 2020.

Position

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 data engineer associate 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 large scale biomedical and

clinical data within the context of ongoing computational systems biology projects, ranging from implementing and running Python ETL pipelines for the standardization of heterogenous health data and optimizing complex database queries and structures in PostgreSQL, to manual and automated curation of bibliographic data. In that context, s/he will be in charge of monitoring analysis and ensuring the reproducibility of the pipelines results. Previous experience in NLP including text classification and topic modeling (preferably on clinical and biomedical text) is an asset. Candidates with a fair background in molecular biology and human genetics are also preferred.

Work environment

The STALICLA DDS office at the World Trade Center 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

Must have

- Comfortable working with **Linux** environment, experience in **shell** scripting
- Proficient in **Python** programming
- **PostgreSQL**, MySQL, MongoDB or equivalent
- **Git**/Gitlab

Nice to have

- Experience in design and implementation of **ETL** data ingestion pipelines using relational databases and **Rest APIs**
- Demonstrable experience in **NLP** including text classification and topic modeling (preferably on clinical and biomedical text)
- Basic knowledge on molecular **biology** and human **genetics**
- Knowledge on **medical ontologies** and vocabularies
- **R**, Docker, Makefile, Nextflow, Jenkins
- Previous experience in **web development** using Python or JS
- Experience with cluster and/or **cloud computing** (AWS preferred)
- Experience in the analysis of **NGS** (RNA-seq and/or DNA-seq)

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 verbal and written communication skills in English
- A passionate, energetic and enthusiastic personality that will ensure commitment to the company and its vision
- Knowledge or interest in NDDs or related therapeutic areas is an asset.

STALICLA promotes diversity, equal opportunity and inclusion. Female, minority and candidates with disabilities are strongly encouraged to apply.

Please submit your application to: hr@stalicla.com