Health Data Architect Associate

The Company

STALICLA is a patient-centric clinical-stage company on a unique mission to identify, develop and bring precision medicine to patients with neurodevelopmental disorders (NDD). Overall, neurodevelopmental disorders are disabilities in the functioning of the brain that affect a child's behavior, memory or ability to learn e.g. intellectual disability, dyslexia, attention deficit hyperactivity disorder (ADHD), learning deficits and autism. NDDs affect 1 in 6 children worldwide.

STALICLA's first focus of development has been Autism Spectrum Disorder (ASD). Today, patients diagnosed with ASD account for 1-1.5% of the world population. The condition remains a high unmet medical need.

STALICLA has assembled a world-class team of experienced drug developers, clinicians and computational systems biologists, geneticists and software engineers, developing a first in class precision medicine platform using systems biology, machine learning & statistical modeling to accelerate drug development for patients with NDDs. 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 DDS (Discovery and Data Science) unit in Barcelona is currently advancing new precision medicine pipelines for two additional groups of patients with ASD.

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 health data architect 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 ETL and clinical data mining pipelines for heterogenous data, to optimizing complex database queries and structures. 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 in NLP including text classification and topic modeling (preferably on clinical and biomedical text), as well as cloud computing.

Work environment

The STALICLA DDS office at the World Trade Center is located at the 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
- **MySQL, PostgreSQL, MongoDB** or equivalent
- Demonstrable experience in **NLP** including text classification and topic modeling (preferably on clinical and biomedical text)
- Experience in design and implementation of **ETL** data ingestion pipelines using relational databases and **Rest APIs**

Good to have

- Git/Gitlab, Makefile, Nextflow (or equivalent), Docker, Jenkins, R
- Experience with cluster and/or cloud computing (AWS preferred)
- Previous experience with big data analysis using Hadoop, Hive or Spark
- Experience in the analysis of NGS (RNA-seq and/or DNA-seq)
- Knowledge on medical ontologies and vocabularies
- Prior experience in the field of Neurodevelopmental disorders or CNS genetics

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
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Knowledge or interest in NDD 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 application to: hr@stalicla.com