

Contacts:

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Reference: DATASCI

Start date: 1st trimester 2021

Place of work: Lyon (69008)

Contract type: Fixed-term 3 years (CDI de mission) with 4 month of probation time (not renewable).

Company presentation

Signia Therapeutics is an innovative French start-up proposing a breakthrough strategy to identify and repurpose rapidly, efficiently and at low cost already marketed drugs or to recycle unused drugs for new antiviral indication against several human respiratory viruses.

The repurposing strategy is based on the comparison of transcriptomic signatures of clinical samples from infected patients or relevant *ex vivo* model of infections against a proprietary data bank drug specific signature on the same relevant model for thousands of drugs.

Signia Therapeutic's drug discovery platform has already demonstrated its significant potential with proofs-of-concept already established for several market-approved drugs that were validated for new anti-influenza and anti-MERS-CoV indications. Signia Therapeutics's most advanced product is under a Phase II multicentric clinical evaluation (FLUNEXT trial) for the evaluation of one very promising antiviral candidate, with final results expected in 2021.

Job description:

As a data scientist, you will be attached to the R&D bioinformatics team.

Your main missions will be the following:

- Implement statistical modelling approaches within our analysis pipelines
- Implement data visualization tools to explore our proprietary database
- Perform data mining from scientific literature and IP with NLP-processing tools
- Implement deep learning approaches within our analysis pipelines
- Support and guidance on statistics to the other members of the R&D team

Profile description:

You have an engineer degree or a doctorate in applied mathematics or informatics with a specialization in data science or bioinformatics or biostatistics with a preliminary experience (internship, PhD or employee) in statistical analysis of experimental data from high-throughput technologies such as genomics or transcriptomics

Required skills:

- Programming language: Python (PyTorch or TensorFlow), D3
- IT environnement : Linux
- Knowledge: Theoretical knowledge and practical skills in applied mathematics and statistics (optimization and classification methods, machine learning techniques, ...)

Bonus skills:

- IT environnement : Docker, Gitlab
- Data visualization: R (shiny)
- Knowledge: Front-end web dev, Network computing

How-to Apply:

Email us (julien.fouret@signiatherapeutics.com) with the object "[DATASCI] LAST_NAME First_name" with

- a 1-page CV with eventually an annex with achievements (publication, software, conference and so on).
- A message with ideally ~250 words but feel free to express yourself
- **Optional:** a document you produced, and you are proud of (publication, report, master or PhD thesis or some code)
- **Optional:** a list of referees (at least one would be great)