DATA ANALYST / DEVELOPER

Full time employee position
We are looking for an ambitious individual, who really wants to have an impact: on a start-up, on its teams, on a novel science generating massive and complex sets of data, and who likes team-playing with a flagship project in the field of life sciences. Come and join the One Biosciences team to take up new challenges, originate precision therapies and have an impact on the lives of people suffering from difficult-to-treat diseases.

The Company: One Biosciences is a start up in the field of life sciences, that aims to become a leader in precision therapies for difficult-to-treat diseases, leveraging the power of single-cell technologies. The Company is an integrated 'discovery engine' composed of multidisciplinary teams, gathering data scientists, clinicians and biologists. The teams will focus on understanding the causes of selected diseases by grasping the heterogeneity of complex biological systems, revealing rare cell populations, and enabling the cellular mapping of such diseases. One Biosciences aims to discover transcriptomic biomarkers and new actionable targets.

The Company was co-founded by Dr. Céline Vallot, Head of the Dynamics of Epigenetic Plasticity Team at Institut Curie. Dr. Vallot is an expert in multi-omics data analysis and epigenetic regulation. Her lab investigates epigenetic mechanisms in breast cancer combining cancer biology with single-cell technologies and data science. Dr. Vallot has co-founded the single-cell facility of Institut Curie and is the author of multiple scientific publications using single-cell technologies combined with data science algorithms to elucidate biological mechanisms in development and cancer.

One Biosciences was granted a worldwide license on key technologies and know-how from Institut Curie, CNRS and Sorbonne Université, in addition to an exclusive license on dedicated single-cell computational softwares, in order to generate unique insights with cutting edge single-cell approaches.

The Company is managed by Home Biosciences' team which leads and oversees its operations. Home Biosciences is Europe's first biotech venture builder, aims to identify and accelerate the development of transformative technologies and treatments addressing unmet medical needs, by leveraging strong operational guidance and drug development expertise, as well as funding resources under one roof. One Biosciences is its first venture.
Magali Richard, co-founder of Home Biosciences, will act as CEO of One Biosciences during the first year of operations, managing an agile project team of data scientists, in close collaboration with the teams at Institut Curie.

In the coming months, One Biosciences will be focusing first on setting up a small team with required computational and data science skills. **Computational analyses are at the core of the discovery engine, essential to generate biological insights from massive and complex sets of data generated by single-cell and sequencing technologies.**

Co-founded by Institut Curie and Home Biosciences, One Biosciences will work in close collaboration with its scientific co-founder Dr Céline Vallot. It is a unique opportunity to work on a cutting edge technology, with world-class partners, in a fun, stable and stimulating environment.

Package will be competitive and will depend on experience and seniority and will include bonus and equity

Missions:
We are looking for a genuine team player, who is an accomplished data scientist, willing to work on a variety of genomics projects.

You have to be excited by multi-disciplinary environments, where learning new science and complexities is a stimulating challenge for you.
You will work on multiple internal and external datasets, composed primarily of single-cell RNAseq data. Critical components of the job will be to develop and implement new algorithms and innovative analysis strategies to generate focused hypotheses for the identification of new therapeutic targets.

Responsabilities:
You will join a dynamic and growing team of scientists using cutting edge genomics techniques and single-cell sequencing for the discovery of new targets. You will work closely with biologists and clinicians from diverse research institutes on each project in a pure team-spirit environment. Primary responsibilities include, but will not be limited to:

- Apply or develop new tools, algorithms, or data-mining techniques for the integrative analysis and visualization of large genomics data-sets
- Integrate tools & algorithms into an RShiny application
- Perform exploratory data analysis of very large datasets, create statistical models to identify markers predictive of phenotypes or clinical outcomes
- Participate in the development of a platform for genomics-based target discovery
- Contribute to the generation of meaningful biological hypothesis from genomics data

Required skills:

  Technical expertise:
  - Proficiency with R and RShiny
  - Strong experience with data mining methods
  - Experience with cloud computing (e.g.AWS)
  - A background in biology and/or single cell genomics is a plus
  - Experience in machine learning algorithms is a plus

  Other:
  - Driven by the purpose of data analyses, the iteration with biologists or physicians to, together, extract the full value from the data and related analysis
  - Ability to innovate, apply and develop new tools for integrative analysis and visualization of multi-dimensional genomics datasets
  - Ability to adapt to increasing scope and work complexity as a consequence of growth and change, and to help others manage through change
  - Strong written and oral communication skills
  - Some knowledge of industry trends and ability to utilize that knowledge to determine the most efficient ways to meet business needs

Expected training / experience:
- A Ph.D. in Data Science, Computer Science, or equivalent scientific discipline (M2 will be also considered)
- Candidates from engineering schools such as ENSMP, Ecole Centrale, EPITA, UTC , INSA Toulouse or other equivalent cursus are encouraged to apply

- Previous experience in computational biology or data science is a plus
  - Proven scripting skills through personal projects / previous work experience (Github) will be carefully reviewed

Contact:
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