Bioinformatics Scientist

Spend your day enhancing life at Cellenion, a SCIENION company based in Lyon (France). Cellenion developed cellenONE®, a breakthrough platform allowing rapid and automated isolation and dispensing of single cells, with a wide range of applications, from cancer to environmental research. With a thriving international customer portfolio, Cellenion is now committed to the development of single-cell (sc) next-generation sequencing (NGS) solutions, from scNGS library generation to data analysis and interpretation.

You have extensive knowledge of genomics and epigenetics/epigenomics dataset handling, and you are eager to imagine valuable and straightforward bioinformatics solutions and to help end-users implementing those solutions? Join us now!

As a Bioinformatics scientist, you will work closely with a fast-growing team of engineers and molecular, cell and microbial biologists, managing scNGS data flow and analyses.

Tasks & Responsibilities:

- Create and maintain Cellenion data flow system for internal NGS experiments;
- Support biologists in designing bioinformatically workable scNGS experiments and analysing obtained data;
- Develop, test, deploy and maintain scNGS data analysis pipelines;
- Develop biologist-friendly, intelligible, yet customisable, applications for end-users, supporting scNGS data processing and interpretation, from out-of-sequencer data to graphical analysis and statistics;
- Track changes and trends in NGS data analysis practices and tools.

Required skills and qualifications:

- Extensive knowledge of Illumina dataset: formats, QC and metrics;
- Advanced computational skills, in several programming languages (C/C++, Python, Perl, Javascript);
- Proven experience in genomics (WGS, comparative genomics...) and epigenetics/epigenomics (RNA-seq, ATAC-seq, ChIP-seq...) NGS data analysis;
- Excellent knowledge/understanding of commonly used software for NGS and scNGS data exploration and analysis (e.g. Bowtie2, MACS 2, SAMtools, HOMER, Schnapps/Bioconductor/Seurat R packages, etc.);
- Taste for highly-collaborative and interdisciplinary team work,
- Ability to independently identify and prioritise requirements, research axes and challenges;
- Excellent oral and written communication for interactions with co-workers, collaborators and customers;
- Proficient in English.

Added-value skills:

- Experience/knowledge of single-cell -omics data analysis;
- Experience/knowledge of microbial genome assemblage/annotation;
- Experience/knowledge of (microbial) evolution reconstruction, (microbial) molecular phylogeny;
- Experience/knowledge of multi-omics approaches data analysis;
- Knowledge/experience of, and wish to implement, methodology and good practices in (software) development.

Application procedure:

Cellenion believes that everyone can make an impact, and we are proud to be an equal opportunity employer committed to providing a dynamic and enjoyable working environment.

If you’d like to join our team, please send your CV and cover letter to info@cellenion.com with in object the reference “BioinfoJan2020”.

Position: BioinfoJan2020