

Engineer position in Computational Biology/Cancer Genomics - CRCI²NA, Nantes

The ICAGEN team (Integrated CAncer GENomics) is seeking a highly motivated research engineer to conduct multi-omics and single-cell analyses in multiple myeloma.

The CRCI²NA (<https://crci2na.univ-nantes.fr>) is one of the biggest French institutions for cancer research, located in the beautiful city of Nantes. This is an exciting place to work in a multi-disciplinary environment, with multiple platforms including state-of-the-art single-cell and sequencing facilities.

The ICAGEN team (<https://crci2na.univ-nantes.fr/en/research/team-8>) uses cutting-edge (epi)genomic technologies to explore the molecular mechanisms of disease progression and drug resistance in multiple myeloma (MM). In close collaboration with the Hematology department of CHU Nantes, we analyze patients enrolled in clinical trials evaluating innovative treatments, with a particular focus on immunotherapies.

The successful candidate will be involved in several research projects aiming at characterizing the molecular landscape (genomic, transcriptomic and epigenomic) of multiple myeloma in relation to treatment response. S/He will be in charge of developing, organizing and applying innovative computational pipelines to analyze multiple types of (epi)genomic data, including single-cell.

Responsibilities

- Test, improve and deploy computational tools for various (epi)genomic analyses
- Develop innovative pipelines for multi-omic data integration
- Perform end-to-end data analysis (QC, processing, normalization, visualization) of various bulk and single-cell data sets
- Organize the analysis and storage of large in-house and public data sets
- Maintain and organize analysis pipelines and packages developed in the lab

Experience / Skills

- Training in bioinformatics, statistics, or data science with knowledge and interest in biology (or the reverse!)
- Experience working in a Unix environment and statistical analysis using R
- Experience with genomic / single-cell data analysis would be a significant asset
- Conceptual background in cancer genomics would be an asset.

Contract start date: flexible, as soon as we find the right person.

Contract duration: The salary will be provided for 3 years (starting 1 year and renewable).

Applicants should send (1) a cover letter, (2) CV, and (3) contact information of two referees to eric.letouze@inserm.fr.