



# Bioinformatician in Mass Spectrometry-based Proteogenomics

## — ABOUT US —

Mnemo Therapeutics is a biotechnology company focused on developing powerful cell therapies that create accessible cures for solid tumors and blood cancers. Its EnfiniT platform, a groundbreaking drug discovery engine, leverages a new class of antigens with greater tumor specificity and a suite of technologies to significantly improve T cell memory, persistence, and sensitivity. The result is dramatic improvement in the body's immune response to overcome disease. Mnemo is built by a transatlantic team of scientists and biotech leaders united in their mission to create the most powerful immune therapies to deliver accessible cures for all patients in need.

We are seeking a bright and proactive team member with strong bioinformatics/biostatistics in mass spectrometry-based proteomics, to be part of Mnemo's neoantigen discovery platform in Paris. The candidate will work in a dynamic and fast-growing environment where he/she will be responsible for high-impact research projects at the interface of computational biology, bioinformatics, mass spectrometry proteomics-proteogenomics and drug discovery.

## — WHAT YOU'LL DO —

- Analyze and interpret large scale mass spectrometry-based data, form conclusions and deliver technical reports;
- Perform integrative analyses combining RNA-based with protein-based data, multi-omics studies using proteogenomic approaches;
- Research and development of novel algorithms and techniques for analysis and visualization of proteomics/proteogenomics data;
- Participate in interdisciplinary projects, working closely with wet lab scientists of different backgrounds as well as other bioinformaticians, to assist on experimental design, pipeline optimization and data interpretation;
- Provide ideas and perform research to identify and validate new candidate tumor antigens;
- Ensure reproducibility and robustness of the results;
- Stay current on scientific literature and implement this knowledge to new experiments and methodologies;
- Report findings internally in English

We seek candidates who are excited to tackle the ambitious challenges of diving into large heterogenous datasets for biological insights underpinning tumor immunity and antigen recognition.

Within the E-antigen discovery team, you will be part of the mass spectrometry and bioinformatics group and will work hand in hand with other team members from very diverse backgrounds (immunology, molecular biology, data science,...).



## — ABOUT YOU —

### Education:

PhD or M.Sc. degree with 3+ years of experience in bioinformatics, biostatistics, computer science, computational biology or related field, with application to mass spectrometry-based proteomics data preferentially in a biopharmaceutical setting.

### Skills:

- Proficiency in mass spectrometry-derived data analysis (total proteomics, cell surface proteomics, immunopeptidomics)
- Autonomous for processing proteomics datasets, being familiar with the complexity of mass spectrometry-based data structure at the peptide and protein levels, both at the identification and quantification levels
- Expert in working with DDA-derived data, using different quantitative approaches such as label-free, TMT or SILAC
- Experience in proteogenomics and/or immunopeptidomics analyses will be a plus
- Ability to conduct end-to-end data analysis (QC, processing, normalization, visualization, interpretation, etc)
- Proficiency in common programming tools (R, Python) and collaborative tools like Github or similar
- Understanding and ease with output data from common MS tools (Proteome Discover, MaxQuant, Comet ...)
- Experience in cancer immunology, immuno-genomics or related field is a plus
- Previous experience with target identification approaches in oncology is a plus

### Soft Skills:

- Strong team player with excellent interpersonal skills with the ability to interact effectively with people, internally and externally
- Ability to prioritize, manage time efficiently, and implement creative solutions to meet program needs and deadlines without compromising quality and accuracy
- Ability to work independently and collaboratively on multiple projects in parallel
- Proactive, intellectually curious and showing initiative to develop novel approaches to scientific problems

## — WHY JOIN US —

- To be part of a cutting-edge scientific environment in constant development
- To participate in projects with impact on patient health
- To be part of a company that takes human values at heart

\*We are an equal opportunity employer. We value diversity and are committed to creating an inclusive work culture for all employees. All qualified applicants will be considered for employment and we do not discriminate on the basis of race, religion, color, national origin, gender, sexual orientation, age, marital status, veteran status, or disability status. To apply for this position, please email a cover letter and resume to [MnemoHR@Mnemo-tx.com](mailto:MnemoHR@Mnemo-tx.com)

Attachment: **Job description / mission** depending on the type of contract (mandatory)