Engineer in Analytical Method and Mass Spectrometry
(60-month term)

Context and working environment
Funded in 2019 for a period of 5 years by the Programme Investissement d'Avenir - Recherche Hospitalo-Universitaire, our project lies in developing and then marketing an innovative mass spectrometry technology for diagnostic applications in human health. This "DeepTech" project, supported by the Hospices Civils de Lyon and the Institut des Sciences Analytiques de Lyon, brings together a multidisciplinary team of researchers, doctors, biologists and bioanalytical engineers.

With an engineering degree, master's degree or doctorate, you have significant experience in analytical method development and mass spectrometry. You will join the team that manages the development phase of targeted methods and their validation on biological samples from patients. In a second step, you will be required to implement these dosage methods in a hospital environment and to train personnel in the use of the diagnostic tool (methods and software).

Your missions
Within the Institute of Analytical Sciences (Lyon Villeurbanne), you will be in charge:
- the identification of candidate molecules to be integrated into analytical methods using bioinformatics tools and exchanges with hospital partners
- the development of targeted mass spectrometric analysis methods
- the validation of analytical methods on patient samples
- the post-processing of the analyses, the formatting of the results and their reports
- the evaluation and validation of new data acquisition and processing software
- the transfer of the diagnostic tool to the hospital (Lyon Croix Rousse,…), the training of technical staff and the monitoring of analytical performance

Profile and experience
You have a solid theoretical and practical background in the field of analytical sciences and, ideally, have significant experience in the quantitative analysis of biomolecules (peptides, proteins, metabolites....) by mass spectrometry.
You are autonomous while enjoying team dynamics. You are curious, creative and organized, persevering in achieving objectives and strong in proposing ways to improve processes and methods. You like to communicate orally, are pedagogical with non-experts and have very good writing skills to summarize reports, prepare reports and procedures.

Please send your resume and motivation letter to jerome.lemoine@univ-lyon1.fr