



POST DOC POSITION IN MASS SPECTROMETRY SOFTWARE DEVELOPMENT

- Recruitment grade: young researcher (i.e. with PhD)
- Location: Pau, France
- Duration: 12 months, starting late October 2020
- Deadline: 30 July 2020
- Gross Salary Range: 2999 euros / month

Context and aims

Ultra-high resolution mass spectrometry (FT-ICR and Orbitrap) now facilitate direct analysis of complex mixtures at the level of elemental composition assignment for thousands of individual species. They also enable online LC-MS analyses that increase sensitivity, dynamic range, and compositional coverage in complex systems. However, the increased compositional information challenges most commercial data processing platforms which are mostly designed for biological applications.

E2S-UPPA seeks a post-doctoral researcher to assist in data acquisition, data processing, and software development efforts in environmental and energy applications. The ideal candidate for the position will be a scientist in the field of mass spectrometry / analytical chemistry with a record of significant scholarly activity and at least two (2) years' experience in software development, mass spectrometry, and/or chemometrics.

Tasks and proposed methodology

The post-doctoral researcher will work with iC2MC permanent staff and collaborators to implement and promote improvements in existing and/or novel software platforms to expand the joint lab's capabilities and ensure that they remain state of the art. The candidate should have experience in complex mixture analysis and be familiar with high resolution mass spectrometry. The candidate will be expected to support existing software and develop new software to support high-impact applications. The candidate will collaborate with staff, graduate students and other postdoctoral fellows. Candidates are expected to have a Ph.D. and training in mass spectrometry software development.

Funding

This post doc position is funded by the project E2S-UPPA (Energy Environment Solutions) whom core

scientific domain focuses on Environment and Energy to meet challenges related to the energy transition, geo-resources, aquatic habitats and the environmental effects of natural and anthropogenic changes (<https://e2s-uppa.eu/en/index.html>).

Supervision and Contact

Supervisory team : Ryan RODGERS (Florida State University / E2S UPPA), Brice BOUYSSIERE (UPPA) and Pierre GIUSTI (TOTAL)

For additional information and proposal, please contact: brice.bouyssiere@univ-pau.fr

Young Researcher skills required

Knowledge in Software development (Python, R, Java, C++, C#, and/or MATLAB, ect.) and Mass Spectrometry/Chemistry

Salary

The salary of the successful candidate will be based on level chart for teaching and research personnel in the salary system of French universities. The salary will be 2999 euros/month (gross salary), including allowance for 64 hours teaching per year.

Applications and deadline

Please submit your application by email to brice.bouyssiere@univ-pau.fr

Please attach the following documents as a single pdf file: CV and motivation letter

The deadline for submitting the application is 30/07/2020