



Job Title: Data Steward (Research Engineer)

Location: PSL University (Paris)

Constituent College: Ecole Nationale Supérieure de Chimie de Paris

Duration of the Contract: The position is a 5-year contract, with continuation contingent upon successful evaluations at the end of the first and third years of employment.

Job Summary: Within the framework of the recently funded ChemAI major research program, PSL University is seeking a data steward, with a background in chemistry and computer science, to develop and manage the data management infrastructure necessary for the digital transition of its chemistry/chemical engineering departments. The successful candidate will spearhead efforts to establish best practices, develop user-friendly tools, and provide training to facilitate the use of databases, machine learning techniques and other digital resources across the chemistry community of the university. Interactions with other academic institutions across the wider Paris region are also foreseen, e.g., through the Paris Artificial Intelligence Research Institute (PR[AI]RIE) and the DIM MaTerRe research program of the Ile-de-France region.

Key Responsibilities:

- Develop and maintain the necessary infrastructure, including databases and hardware, to support the digital transition of the chemistry/chemical engineering departments.
- Create and implement user-friendly tools for interacting with and querying these databases.
- Conduct research to establish best practices and optimal workflows and formats.
- Lead the development of a repository of user-friendly scripts and Jupyter notebooks for the integration of machine learning techniques into the research workflows of the various groups affiliated with these departments.
- Provide training and technical support to the chemistry community on the use of the developed tools.
- Collaborate with an internal expert team and theoreticians from various institutions to tailor and modify tools for specific applications.
- Promote awareness about, and the use of, digital tools within the wider PSL chemistry community (both experimentalists and theoreticians).

Preferred Qualifications:

- Ph.D. in Chemistry, Computer Science, or a related field.
- Experience in academic or research environments.
- Proficiency in programming and developing scripts (e.g., Python) and using tools such as Jupyter notebooks.
- Proven experience in developing and managing computer infrastructure and databases.
- Profound understanding of best practices in data management and digital workflows.
- Excellent communication and training skills.
- Ability to work collaboratively with a diverse team of experts and theoreticians.

Application Process: Interested candidates should send a resume, cover letter, and contact information for three professional references to thijs.stuyver@chimieparistech.psl.eu before December 1st 2024.