



The complex matter research unit (UMR 7140) and the chemistry faculty of the university of Strasbourg in France invites applications for a five-year junior professorship (tenured) in automated chemical synthesis – robotics and related fields including sensing.

Research fields :

The junior chair must develop a research activity at the interface between chemistry and artificial intelligence from techniques that use robotic equipment to perform the synthesis of chemical compounds, the formulation of substances and the processing of materials in an automated manner. The suggested research may involve microfluidic, electrochemical or any innovative approach. This emerging field in academic research and in industry could be developed either at the interface of pharmaceutical companies, which rely on digitally assisted chemistry for the development of new drugs, or for fundamental research. The chair must fit into the framework of UMR 7140, which will provide the chair with a scientific environment and the experiences in Artificial Intelligence and characterization techniques essential to the realization of ambitious projects in organic chemistry and green chemistry.

Job profile :

The recruited person will be an independent group leader within the UMR 7140. He or she will take part in teaching organic chemistry within the Faculty of Chemistry of the University of Strasbourg. The junior professor recruited as part of this project will bring his scientific expertise to expand the teaching offer, particularly within the framework of the master's programs and more particularly in the "Molecular, green and supramolecular chemistry" and "Chemoinformatics" courses. », the Erasmus Mundus ChEMoinformatics plus - Artificial Intelligence in Chemistry and the graduate school "EUR Chemistry of Complex Systems" (EUR-CSC). He/she will be able to teach chemical synthesis at the frontier with artificial intelligence and robotics. These courses will also be open to engineering students from ECPM who have chosen the "molecular chemistry" or "artificial intelligence and chemistry" majors. They will also participate in various educational activities including supervision, monitoring and evaluation of tutored projects and master's internships around these themes.

In the development and implementation of lessons, the teacher will have the following mission: the design and animation of lessons in support of research; regular updating of its teaching practices; assessment of learning outcomes (knowledge, skills), with regard to expectations and audiences.

We seek outstanding candidates with at least one post-doctoral experience abroad, a strong publication record and experience in grant applications. Teaching experience is a must.

For more information, also concerning the application procedure, please contact Prof. Petra Hellwig (hellwig@unistra.fr).