





Job offer: Full Professor Position in Organic/Organometallic Chemistry

University of Lorraine, Nancy, France

Starting date: September 2024

Context of the research.

The Lorraine Laboratory of Molecular Chemistry (L2CM, <u>http://www.l2cm.univ-lorraine.fr/l2cm/</u>) is a joint research unit of the CNRS and the University of Lorraine (UMR 7053), comprising approximately 70 members located across Nancy (Faculty of Science and Technology; Brabois Health Campus) and Metz (Institute of Chemistry, Physics, and Materials). L2CM is leading activities in the field of molecular chemistry, covering areas such as synthetic chemistry (organic, organometallic, and coordination), physico-chemistry of molecules and interfaces (self-assembly, adsorption, spectroscopy, photophysics), and their applications in (photo-, bio-)catalysis or (photo)biology.

The laboratory is structured into three teams:

(1) SO²R: Organic Synthesis, Organometallic, and Reactivity (headed by C. Comoy, including 4 Associate Professors with HDR, 1 Associate Professor, 1 Researcher and 1 tenure track junior professor);

(2) InCoMe: Engineering of Metallic Complexes (headed by P. Pierrat, including 1 Research Director, 1 Researcher, 2 Associate Professors with HDR, 1 Associate Professor); and

(3) SMO: Organized Molecular Systems (headed by A. Pasc, including 4 Professors, 1 Associate Professor with HDR, 4 Associate Professors and 1 Researcher).

The teams closely interact with the unit's platforms, all certified as STAR LUE (Infra+ program of the LUE i-site): SynBioN (synthesis for biology and nanomaterials), PhotoNS (optical spectroscopy and photophysics - Soft matter and mesoporous materials - photo-biology), and MassLor for mass spectrometry analysis (<u>http://www.l2cm.univ-lorraine.fr/l2cm/plateformes/</u>).

Profile of the candidate.

Candidates with demonstrated expertise in organic chemistry triggering the synthesis and the functionalization of heterocycles, from eco-compatible methodologies in organometallic chemistry to the synthesis of polyfunctional compounds.

Research. The future Professor will join the SO²R team, whose activities are focused on the synthesis of heterocycles. These activities range from designing new organometallic reagents for the synthesis and asymmetric functionalization of heterocycles, to their selective and controlled poly-functionalization, and finally to the multi-step synthesis of polyfunctional photoactive molecules of interest in imaging, therapy, or fluorescence-guided surgery. The recruited Professor should have proven expertise in organic chemistry and propose an ambitious research project related to the topics of the SO²R team. Those include organometallic chemistry (post-transition and block-s metals), ate complexes, chirality transfer, domino reactions, photo-induced synthesis and reactivity, and monomolecular photoactive structures. In addition to scientific excellence, the future Professor should be proactive in seeking competitive funding, building a research team, and enhancing collaborative networks at regional, national, and international levels with recognized research groups. Application submissions must include a research proposal (4 pages), as well as the name of at least 3 French or international references.

Contact: Andreea Pasc, Director of L2CM (andreea.pasc@univ-lorraine.fr)

Teaching. The recruited professor will join the Department of Chemistry at the Faculty of Science and Technology (FST) of the University of Lorraine (UL) and it will be required to actively participate in the department's activities. For teaching responsibilities, he/she will be in charge of organic chemistry courses in the Chemistry Bachelor's program, particularly focusing on the courses in L2 Chemistry and L3 Chemistry related to reactivity applied to organic molecules, analysis and understanding of mechanisms, their rationalization, and the influence of reaction environments. He/she will lead courses in polar organometallic chemistry. This will cover fundamental aspects such as the preparation of reactive species, analysis of their structures, and studies of their reactivity, as well as the reactivity of complex basic systems. The courses will extend to the study of coupling reactions and bond formation in transition metal organometallic chemistry, with applications in current examples.

Contact: Marc Hebrant, Director of the Chemistry Department (marc.hebrant@univ-lorraine.fr)

How to apply.

Application will be opened on Galaxie from February 22nd, 10 am to March 29th, 2024 at 4pm. <u>https://www.galaxie.enseignementsup-recherche.gouv.fr/ensup/candidats.html</u>

Specific requirements/Qualification. Assistant Professors with a permanent position are exempt from the qualification requirement (note that obtaining 'Habilitation à diriger des recherches' - HDR - remains mandatory). However, for all other candidates, qualification is mandatory.

<u>Exemptions from qualification</u>. International Recruitment: Candidates who are currently or have ceased to hold a position as a teacher-researcher, at a level equivalent to the position being applied for, in a higher education institution in a country other than France, are exempt from qualification listing, subject to providing supporting documentation.

For more information <u>https://www.univ-lorraine.fr/travailler-a-l-ul/wp-content/uploads/sites/</u>13/2023/03/Piece-a-joindre-au-dossier-de-candidature-1.pdf