

POSTDOCTORAL POSITION IN ORGANIC SYNTHESIS

Institut des Sciences Moléculaires de Marseille ([iSm2](#)) is looking for a Postdoctoral candidate to join the [STEREO team](#), under the guidance of Prof. Thierry Constantieux and Dr. Muriel Amatore, to develop a project in the field of atroposelective organocatalysis. The general strategy is based on the use of chiral activated dienolates as a polyvalent synthetic platform for the rapid and highly stereocontrolled preparation of underexplored atropisomer families featuring multiple stereogenicities. These chiral intermediates will be involved in formal (4 + 2) and (2 + 3) cyclizations, as dienolate or enolate partners, respectively, to access original atropisomers featuring up to two five-membered rings connected by a C–N axis, or more challenging N–N axis.

Job description

In interaction with two PhD students involved in this project, the activities of the recruited person will consist of defining and optimizing synthetic protocols, carry out the characterization of the products, write reports, participate to draft manuscripts, and to give oral presentations in group seminars and scientific events.

Knowledge and skills required

- Strong background in organic synthesis.
- Strong motivation and creative mind.
- Ability to work effectively both independently and as part of a team.
- Excellent oral and written communication skills.
- Good level of scientific English (read, spoken and written).
- Scientific rigor and ethics.

Profile of the candidate

- PhD in organic chemistry.
- Good knowledge of classical synthetic chemistry techniques and spectroscopic analysis (NMR, HRMS, HPLC).
- Experience in multi-step synthesis.
- Previous experience in homogeneous enantioselective catalysis will be an asset, but not mandatory.

Location, duration and salary

- Duration: Experimental work will be done over 12 months, starting from June, 1st.
- Location: Aix-Marseille University, Saint Jérôme campus, Marseille.
- Salary: 2300-3500 euros gross salary depending on the experience after the PhD.
- Funding: ANR (DINATROP project 2024-2027)

Application

Applicants are invited to submit a CV including 2/3 reference contacts, a letter of motivation, and a short research summary. Recommendation letters are also welcome.

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