



PhD position in Chemical Biology Starting October 2024

3-year fixed-term contract – €2 075-2 335 (gross monthly)

The BioFunctional Chemistry team (UMR 7199), located at the Faculty of Pharmacy of Strasbourg, has an available PhD position for a motivated student eager to work on the chemical conjugation of oligonucleotides and proteins.

In the context of a highly collaborative project with mass spectrometry experts and molecular biologists, this PhD project aims at developing new chemical cross-linking reagents, able to bind both proteins and nucleic acids. These new families of reagents will be used to stabilize elusive protein-nucleic acid interactions in order to analyze the structures of these complexes, and to develop new families of antibody-oligonucleotides conjugates for therapeutic purposes.

The recruited student will be in charge of all the chemistry aspect of this collaboration, interacting regularly with scientists from other domains. As a closely related project has just started in our laboratory, the newly recruited student will also have to work closely with another PhD student, thus requiring a strong team spirit. The BFC team will support applications of the recruited student to any teaching/demonstrating opportunity, as well as any popularization activities aimed at the general public in connection with the research project.

Missions:

- Produce new protein-oligonucleotide cross-linking reagents.
- Conduct bioconjugation experiments and in-vitro studies if need be.
- Write experimental protocols and report the results regularly.
- Participate in the life and organization of the laboratory.
- Apply health and safety principles and rules.

Required knowledge and skills:

- Good knowledge of synthetic chemistry and chemistry of biomolecules.
- Previous experience in chemical biology would be beneficial.
- Mastery of common IT tools (Microsoft Excel, MestreNova/Topspin, ChemDraw).
- A good command of English would be a plus.
- Ability to work in team.
- Rigor and attention to details.

Start date:

1st October 2024.

To apply, please send a CV, a cover letter, and contact information of two references before 1st July 2024 to Dr. Guilhem CHAUBET at chaubet@unistra.fr



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