

## Position description

### 1. Position identification

**Title of post :** Postdoctoral position in Organic Chemistry/Chemical Biology

**Type of contract :** Fixed-term contract

**Category (A,B or C) :** A

**Contract/project period :** 1 Year

**Expected date of employment :** January 2025

**Proportion of work :** 100%

**Workplace :** CNRS UMR7199, Unistra, faculté de pharmacie, Illkirch, France

**Desired level of education :** PhD

**Experience required :** Completed PhD (at least 2-years experience).

**Contact(s) for information on the position (identity, position, e-mail address, telephone) :** Dr. Mayeul Collot, DR CNRS, responsable de l'équipe Chimie des Systèmes Photoresponsifs, [mayeul.collot@unistra.fr](mailto:mayeul.collot@unistra.fr), (+33) 3 68 85 41 49

**Date of publication :** 25/07/2024

**Closing date for the receipt of applications :** 1<sup>er</sup> décembre 2024.

### 2. Research project or operation

**DirEctEd Photooxidation (DEEP), a Universal Approach to Develop Fluorescent Phototransformable Materials.** The project aims at developing new photomodulable fluorescent probes based on our recently established « directed photooxidation » mechanism.

### 3. Activities

➤ **Description of the research activities :**

Multistep organic synthesis, spectroscopic analysis, cellular imaging using fluorescence microscopy.

➤ **Related activities :**

Participation in the communal life of the laboratory, presentations. Reports, assistance with drafting publications.

## 4. Skills

➤ **Qualifications/knowledge :**

Strong motivation for multistep organic synthesis, ability to manage different syntheses in parallel. Knowledge of phenomena associated with molecular fluorescence. Experience in cellular imaging is a plus.

➤ **Operational skills/expertise :**

multistep organic synthesis, usual characterizations ( $^1\text{H}$  and  $^{13}\text{C}$  NMR, mass spectrometry) required for publishing in peer reviewed journals.

➤ **Personal qualities :**

We are looking for a motivated, dedicated, and serious candidate who can integrate into a research team while maintaining a positive attitude.

## 5. Environment and context of work

➤ **Presentation of the laboratory/unity :**

The research unit is located within the Faculty of Pharmacy on the Illkirch campus near Strasbourg. The CNRS research unit UMR7199 Synthetic and Therapeutic Chemo-Biology (CBST) comprises four complementary research teams specializing in chemical biology and its research tools. The unit is fully equipped to carry out this project and benefits from a suitable environment thanks to the on-site presence of analysis platforms (400 and 500 MHz NMR, mass spectrometry, *etc.*), spectroscopy (spectrophotometer, fluorimeter, laser spectroscopy, *etc.*), and imaging (confocal microscopy, super-resolution, *etc.*). The host team is the "Chemistry of Photoresponsive Systems" team, led by Dr. Mayeul Collot (CNRS Research Director).

➤ **Hierarchical relationship :**

The candidate will be supervised by the head of the "Chemistry of Photoresponsive Systems" team and will be expected to supervise Master's and/or Ph.D. students.

➤ **Special conditions of practice (notice attached):**

**To apply, please send your CV, cover letter and diploma to:**

**Dr. Mayeul Collot**  
**mayeul.collot@unistra.fr**