



University of
Zurich ^{UZH}

INSA

INSTITUT NATIONAL
DES SCIENCES
APPLIQUÉES
ROUEN NORMANDIE



Laboratoire
Chimie organique,
Bioorganique,
Réactivité et Analyse.

PhD thesis – Organic chemistry

Project: A surge for the development of sustainable processes has recently raised in the current environmental context. As such, electrochemistry has experienced a renewed interest from the chemist's community. Yet, the electro-mediated synthesis of transition metal complexes remains scarce. Gold has fascinated humanity since the early days of humankind but was considered inert for centuries. Since three decades, gold catalysts have exhibited unique and powerful properties and the field of gold chemistry has thus attracted tremendous attention. This project aims at merging gold and electrochemistry with the main objective to develop novel synthetic approaches to access gold(III) complexes in an eco-efficient manner.

We offer: The PhD student will be part of a new collaboration between excellent internationally-recognized research laboratories. He/She will share his/her time between the COBRA laboratory within the team « Heterocycles » and the University of Zurich within the team of Prof. Nevado. The PhD will start in France for 18 months and continue in Switzerland for 18 months.

Requirements: We are looking for a highly motivated, dedicated and team-spirited candidate with excellent communication skills in English (both spoken and written form). The candidate should have a Master degree in organic chemistry. Good knowledge and practical experience are expected, as well as being familiar with techniques such as inert atmosphere, NMR, IR, MS, etc... A background in electrosynthesis and/or organometallic chemistry would be an asset (but not mandatory).

Details

- **Duration:** 36 months
- **Funding:** EUR-XL-CHEM (<https://www.eur-xl-chem.com/>) and UZH internal funding
- **Working place:** 50% Laboratory COBRA – UMR CNRS 6014 – INSA Rouen Normandie – Normandie Université (<https://www.lab-cobra.fr/equipes/heterocycles/>) and 50% University of Zurich (<https://www.nevadogroup.com/>)
- **Starting date:** From October 1st, 2024
- **Gross salaries:** ~2200 €/month in France and ~4500 CHF/month in Switzerland
- **Application deadline:** Evaluation as soon as applications will be received until the suitable candidate will be chosen.

Application: Applications should be sent by e-mail to Hélène Beucher (helene.beucher@insa-rouen.fr) and should include: • A detailed CV • A cover letter • A short research summary of past accomplishments • Transcript of records of the Master degree and copy of degree • One recommendation letter and the contact details of at least one more referee. *Applications that are not complete will not be considered.*

