

## Postdoctoral Position (24 months)

### Topic: On-Surface Synthesis, Photochemistry, STM/AFM

FEMTO-ST is seeking a highly motivated postdoctoral researcher for a 2-year position starting from 2025, October, as part of a grant proposal currently under submission. The position will be funded upon successful acceptance of the project proposal, which focuses on interdisciplinary research in surface chemistry, photochemistry, and scanning probe microscopy.

### Project description

The successful candidate will investigate on-surface synthesis of molecular systems activated or transformed by light, with in-depth structural and electronic characterization using Scanning Tunneling Microscopy (STM) and Atomic Force Microscopy (AFM), under ultra-high vacuum (UHV) and/or low-temperature conditions.

The work will be carried out in close collaboration with national (IM2NP, Marseille) and international partners (Polytechnique, Montréal-Canada), and will involve both experimental design and data analysis.

### Candidate profile

- PhD in physics, surface science or nanosciences.
- Proven experience with STM and/or AFM, preferably in UHV conditions.
- Background in photochemistry, surface-confined organic reactions, or molecular self-assembly is a strong asset.
- Scientific rigor, autonomy, and enthusiasm for interdisciplinary research.
- Good command of English (written and spoken).

The candidate must have obtained their PhD from an institution **outside the Bourgogne-Franche-Comté region**, and **must not currently reside or be employed in Bourgogne-Franche-Comté**.

### Position details

- 24-month postdoctoral contract, renewable depending on funding and performance.
- Workplace: Montbéliard, France
- Salary: approximately €3000 gross/month, based on standard French postdoctoral salary scales and depending on experience

### **Application procedure**

Please send a detailed CV, a motivation letter, a list of publications, and contact information for at least two academic referees to: [frederic.cherioux@femto-st.fr](mailto:frederic.cherioux@femto-st.fr).

Application deadline: 2025, May, 30<sup>th</sup>.

Starting date: 2025, October