

We are seeking a highly motivated and talented postdoc for developing and applying a combined atomic force microscopy (AFM) – tip enhanced Raman spectroscopy (TERS) setup for the combined topographical and chemical analysis of bio-membranes.

## Postdoc Position

Scheuring Lab - Marseille, France

### AFM-TERS

(Atomic Force Microscopy – Tip Enhanced Raman Spectroscopy)

Candidates should have a strong background in Raman spectroscopy, ideally in combination with atomic force microscopy. The successful candidate can be trained in physics, chemistry, optics, biophysics or nanotechnology, but it is indispensable to show ability for assembling, troubleshooting and applying Tip Enhanced Raman Spectroscopy (TERS) associated to an atomic force microscope (AFM). Candidates are expected to be scientifically independent and socially active.

After fine-tuning the AFM-TERS setup, the candidate will analyze topography and chemistry of first model bio-membranes and second native bio-membranes. The candidate will establish and optimize AFM tip modification for TERS.

Our laboratory operates several AFM setups (high-resolution AFM, cellular AFM, high-speed AFM), optical microscopes, and features the necessary infrastructure and collaborations to perform surface and tip modifications, biochemistry and cell biology. Working language is English.

Applicants must have received their PhD within the last 2 years, but also candidates that are about to finish their thesis and anticipate their first postdoc are considered, if they can show independence. The candidate should have a solid publication record (at least one first author paper in TERS or a closely related field). Please send an updated CV, a project-dedicated letter of interest and the contact information of two scientists that may provide recommendations to Simon Scheuring and Sophie Gall ([simon.scheuring@inserm.fr](mailto:simon.scheuring@inserm.fr), [gall@tagc.univ-mrs.fr](mailto:gall@tagc.univ-mrs.fr)).

The duration of the position is two years with possibility of extension.