

## International PhD project at the University of Strasbourg

The Bioelectrochemistry and Vibrational Spectroscopy Group in the Faculty for Chemistry and the UMR 7140 of the University of Strasbourg offers a PhD position, fully funded, to work on an exciting, multi-disciplinary project. The group has expertise in a variety of research areas including electrochemistry, infrared / THz and Raman spectroscopies and applied on biological molecules. The group has strong international collaborations with laboratories based in Europe and abroad.

We invite applications from highly motivated individuals who hold a master degree (or equivalent) and who are available to start in September 2022.

The thesis is a part of an ambitious research program that aims at the development of sensors based on surface enhanced vibrational spectroscopies and using gold and graphene for the study of the proteins and their inhibition. The project addresses today's urgent need for new sensing techniques, which will hopefully lead to new antimicrobial drugs that act with novel molecular and cellular mechanisms. Our ambition is to validate membrane proteins from membrane proteins, as privileged targets for future antibacterial drugs. The project provides an unique opportunity for the successful candidate to engage in inter-disciplinary research using a variety of experimental techniques at the interface between physical chemistry and biophysics. A background in biophysics or physical chemistry with a strong interest in biochemistry is desirable. Knowledge in spectroscopy and plasmonics is a plus. Applicants should have excellent communication skills and sufficient command of English.

The laboratory (<http://complex-matter.unistra.fr/>) is located close to the center of Strasbourg (France) and the university of Strasbourg (<http://www.unistra.fr/>) is located in the upper Rhine area, that includes a number of excellent universities (<https://www.eucor-uni.org/en/>).

For application and further information, please send a cover letter along with a CV, the results of your master (bachelor), a short description of your motivation and other research activities and including the contact details of two references to [hellwig@unistra.fr](mailto:hellwig@unistra.fr) latest the 20 of July. The documents sent should not exceed 5 MB. Please note that incomplete applications will not be considered.