

Lecturer Position (ATER) at ESPCI PSL

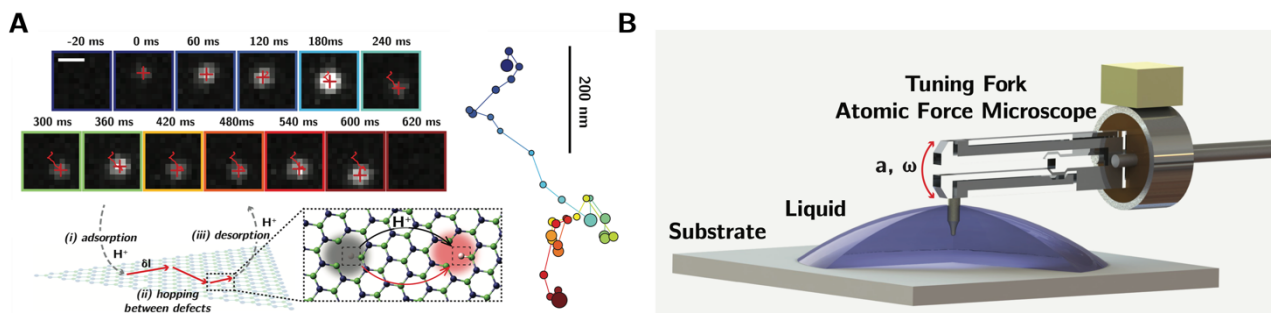
Soft Matter and Interfaces at Nanometric and Molecular Scales

We have an opening for a one-year lecturer position at ESPCI, Paris, France (possibility for extension). The position is at a post-doctoral level and involves research as well as teaching at the undergraduate level (135 hours per year). A basic knowledge of French to communicate with students is necessary.

Research. The candidate will integrate within the Soft Matter Science and Engineering (SIMM) lab at ESPCI PSL and work under the supervision of Jean Comtet (<https://blog.espci.fr/jcomtet/>). The research project will focus on the dynamics of complex interfaces in soft matter probed at nanometric and molecular scales. Possible research directions include:

- Single charge dynamics at solid/liquid interfaces with single-molecule and super-resolution fluorescence microscopy techniques (Fig. A; [12])
- Dynamics of confined liquids and confined electrolytes using dynamic Atomic Force Microscopy techniques (Fig. B; [3,4])

The exact project is open and to be defined according to the interests and skills of the candidate.



Teaching. Teaching will involve 135 hours of tutorial classes and practical works in statistical physics and soft matter physics (phase transitions, soft interfaces) for the 1st and 2nd year ESPCI engineering students; teaching starts in January 2023.

Profile. We are looking for a candidate with a PhD in physics, and with a strong taste for experimental work. The teaching is in French. A basic knowledge of French to communicate with students is necessary.

Applications. Please contact Jean Comtet (jean.comtet@espci.fr) by email with CV, short motivation statement and contact information of few references.

Starting date. From September to December 2022.

References.

[1] Science Advances (2021), 7(40), eabg8568. (<https://doi.org/10.1126/sciadv.abg8568>)
 [2] Nature Nanotechnology (2020), 15(7), 598-604. (<https://doi.org/10.1038/s41565-020-0695-4>)
 [3] Nature (2019), 569 (7756), 393-397. (<https://doi.org/10.1038/s41586-019-1178-3>)
 [4] Nature Materials (2016), 16, 634–639. (<http://doi.org/10.1038/nmat4880>)