

Non tenured lecturer/ATER in Chemistry and Inorganic Materials/Crystallised Materials/Hybrid Materials (F/H)

LOCATION 10 RUE VAUQUELIN 75005 PARIS

ÉTABLISSEMENT ESPCI Paris - PSL

WORKING ENVIRONMENT AND CONTEXT

The École Supérieure de Physique et de Chimie Industrielles de la Ville de Paris - PSL (ESPCI Paris - PSL) is both a Grande École of Engineering and a research institute (17 laboratories) of international renown with a strong culture of scientific excellence (6 Nobel Prizes). Teaching and research are at the crossroads of knowledge and know-how in physics, chemistry and biology.

Notre établissement fait partie de l'Université PSL. Située au cœur de Paris, celle-ci fait dialoguer tous les domaines du savoir, de l'innovation et de la création. Classée parmi les 50 premières universités mondiales, elle forme au plus près de la recherche des chercheurs, artistes, ingénieurs, entrepreneurs ou dirigeants conscients de leur responsabilité sociale, individuelle et collective.

RESEARCH MISSION

LABORATOIRE CHIMIE MOLÉCULAIRE, MACROMOLÉCULAIRE, MATÉRIAUX (C3M)

The research will be carried out in the Molecular Chemistry, Macromolecular, Materials (C3M) laboratory (formerly Soft Matter and Chemistry ; www.mmc.espci.fr) at ESPCI Paris-PSL.

This laboratory conducts fundamental research inspired by, and oriented towards, industrial applications. The research themes cross macromolecular synthesis, organic Chemistry, and the physics and physico-chemistry of soft matter. Researchers design and synthesize functional molecules and innovative polymer and colloid materials, that are characterized by different techniques and modeled.

The research project of the successful applicant will deal with hybrid polymer-nanoparticle systems at the interface between synthetic chemistry, sol-gel chemistry and physico-chemistry of polymer and composite materials. He/she will synthesize and/or functionalize different types of inorganic or polymer nanoparticles, will characterize them and inserting them into polymer matrices, films or gels. The objective of this research is two-fold : understand particles interactions in concentrated suspensions, polymer matrices and at interfaces, develop innovative solutions in applications such as the gluing of biological tissues or the formulation of rheological control additives. To achieve these objectives, the applicant will collaborate with several researchers on different themes.

Cloitre Michel michel.cloitre@espci.psl.eu

SKILLS

The candidate must have theoretical and practical knowledge in inorganic chemistry and chemistry of materials. Knowledge of polymer chemistry and physical chemistry, as well as prior teaching experience, will be highly appreciated.

PhD thesis.

NON DISCRIMINATION, OUVERTURE ET TRANSPARENCE

Notre établissement, comme l'ensemble de l'Université PSL, s'engage à soutenir et promouvoir l'égalité, la diversité et l'inclusion au sein de ses communautés. Nous encourageons les candidatures issues de profils variés, que nous veillerons à sélectionner via un processus de recrutement ouvert et transparent.

APPLICATION PROCESS

Application files must include :

- A resume
- A summary of scientific and teaching activities with the contact details of two referents
- A cover letter indicating motivations
- A copy of the PhD thesis diploma

The files must be sent by email in a single attached document, in PDF format only, to the email address : recrutement@espci.fr with copy to :

Dean of studies : nicolas.lequeux@espci.psl.eu

Persons responsible for teaching : corinne.soulie@espci.psl.eu ; sophie.norvez@espci.psl.eu ; sandrine.ithurria@espci.psl.eu

Research directors : michel.cloitre@espci.psl.eu ; corinne.soulie@espci.psl.eu ; sophie.norvez@espci.psl.eu

CONTACT

recrutement@espci.fr

ACCESS

Métro ligne 7 (Place Monge/Censier Daubenton) - RER B (Luxembourg) - Bus 21, 24, 27 & 47

OTHER INFORMATION

Recherche principal : **Chimie**

Université PSL (Paris Sciences & Lettres)

