

# Post-Doc position in Molecular Biology Droplet-based microfluidics and RNA expression CBI - ESPCI Paris LBC Team - Pr Andrew Griffiths (F/H)

POSTE À POURVOIR Starting date :February2021 LOCALISATION DU POSTE 10 RUE VAUQUELIN 75005 PARIS  
ÉTABLISSEMENT ESPCI Paris - PSL

## ENVIRONNEMENT ET CONTEXTE DE TRAVAIL

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.

### STRUCTURE D'ACCUEIL

#### ESPCI Paris - PSL

ESPCI Paris - PSL is a major institution of higher education (a French "Grande École d'ingénieurs"), an internationally renowned research center (6 Nobel Prizes), and a fertile ground of innovation for industry (3 start-ups created/year). ESPCI is a highly multidisciplinary environment with teaching and research in physics, chemistry and biology.

#### Prof. Andrew Griffiths' Lab

The research activities of the Laboratory of Biochemistry team at ESPCI Paris-PSL, directed by Prof. Andrew GRIFFITHS, are based around droplet-based microfluidics, a powerful new ultrahigh-throughput system in which reaction volumes can be miniaturized by up to a million-fold compared to conventional assays in microtitre plates. This opens up exciting prospects for the development of extremely innovative systems with many applications in the Life Sciences. The successful candidate will join a highly multidisciplinary team, with experience spanning biology, chemistry and physics.

## MISSION D'ENSEIGNEMENT

# MISSION DE RECHERCHE

**CBI - ESPCIPARIS-PSL LBC TEAM - PROF. ANDREW GRIFFITHS**

## **Project**

The dynamic nature of chromatin and transcriptional features are expected to participate to tumor evolution, particularly in the context of response to cancer treatment and acquisition of resistance. In triple-negative breast cancer (TNBC), we have recently revealed the heterogeneity of chromatin states in patient-derived xenografts models of acquired resistance to Capecitabine.

The Post-Doc will work on the development of droplet-based microfluidics approach for the simultaneous profiling of histone modifications and RNA expression on the very same cell.

# COMPÉTENCES ATTENDUES

## **Requirements**

We are seeking a highly motivated Post-Doc with strong experience in molecular biology (scChIP-seq and RNA-seq) or related field. Experience in microfluidics, cell biology and bioinformatics are very appreciated.

Flexibility, autonomy, the ability to work in a highly multidisciplinary team and good interpersonal skills are essential.

## **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.

# MODALITÉS DE CANDIDATURE

Address your applications(CV + cover letter) by email to:

Prof. Andrew GRIFFITHS

ESPCI Paris-LBC Team

10 Rue Vauquelin - 75005 Paris

[job-lbc@espci.fr](mailto:job-lbc@espci.fr)

## CONTACT

Andrew Prof. GRIFFITHS

[job-lbc@espci.fr](mailto:job-lbc@espci.fr)

## ACCÈS

ESPCI Paris-LBC Team

10 Rue Vauquelin - 75005 Paris

Metro line 7 station Censier daubenton, Bus 21,27

## AUTRES INFORMATIONS

Recherche principal : **Sciences biologiques** Recherche secondaire : **Autre**

Rémunération : **Salary : according to professional experience**

Durée du contrat: 1 year renewable

**Expérience souhaitée**  
**Niveau doctorant (R1) an**

**Référence**  
**13313**

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## L'Université PSL (Paris Sciences & Lettres)

