Two (2) Post-Doc positions in Molecular Biology Droplet-based microfluidics / barcoded DNA / antibody discovery (F/H)

POSTE À POURVOIR Starting date :January 2021 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 Écoled'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

Over the last decade, antibody-based therapies have made significant impacts on several diseases. Increasing efforts are being made by researchers and big pharma to find novel high-impact antibodies.

Twopost-docs will collaboratetogether and work on the characterization of millions of individual antibody secreting cells using a droplet-based microfluidic platform combined with DNA barcode and next generation sequencing.The project (CelliGO) is in collaboration with the company HiFiBiO,a spin off from ESPCI, Harvard University and the Broad Institute.

COMPÉTENCES ATTENDUES

Requirements

We are seeking two highly motivated Post-Docswith strong experience in molecular biology or related field. The Post-Docs should be interested in learning how to use microfluidic systems.

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 emailto:

Prof. Andrew GRIFFITHS

ESPCI Paris –LBC Team

10 Rue Vauquelin - 75005 Paris

job-lbc@espci.fr

CONTACT

Andrew Prof. GRIFFITHS
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 12 months

Expérience souhaitée
Niveau doctorant (R1) an

Référence
10315

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