



Ecole d'Ingénieurs

**Assistant Professor (Enseignant-Chercheur)
in Pluripotent Stem Cell Biology
for Sup'Biotech Engineering School**

Keywords :

**IPS cells, Organoids, Neurodegenerative Disorders,
CRISPR-Cas9, 3D Imaging, Disease Modeling**

Sup'Biotech is a private engineering school located in Villejuif (Paris metropolitan area), created in 2003. Sup'Biotech delivers a curriculum specializing in the multiple sectors of Biotechnology, including Health, Pharmaceutical, Food, Environment, Cosmetics, Bioinformatics. Sup'Biotech is part of the [IONIS Institute of Technology](#) cluster. IONIS is France's leading private higher education group; its technology cluster includes EPITA and Epitech, schools specializing in computer sciences and information technology, as well as IPSA, an aeronautics engineering school. Sup'Biotech recognizes the importance of academic research in the training of engineers, and has developed over the past years an important program of collaborative research in the fields of stem cell technologies, food science, bioinformatics and social science.

JOB TITLE	
Assistant Professor (Enseignant-Chercheur)	
<i>Nature</i>	Research and Teaching
<i>Type</i>	Full-time, long-term position, private sector (Contrat à durée indéterminée de droit privé (association loi 1901), niveau cadre)
EMPLOYER	
<i>Engineering School</i>	Sup'Biotech http://supbiotech.fr
<i>Laboratory</i>	CellTechs Research Laboratory https://recherche.supbiotech.fr/celltechs
MISSIONS AND JOB DESCRIPTION	
Research Mission	
The candidate must demonstrate excellent research skills. The candidate should also have good communication, networking and adaptation skills. He/she must be able to work in a team and play a	

leading role in setting up and managing research projects.

The candidate's research activity will be integrated with those of the CellTechs laboratory, dedicated to neurodegenerative disease modeling using organoids.

The research mission will include, but not be limited to :

- Taking the lead on currently financed projects (2019-2022) [ie. generation and characterization of cerebral organoids from different IPS disease models]
- Developing new collaborations, and construct partnerships with the private industry.
- Ensuring that the research activity of the CellTechs laboratory is well represented in the scientific community:
 - o Participate to scientific meetings and congresses
 - o Publishing the results obtained in international peer-reviewed journals (research articles and reviews, proficiency in scientific writing)
 - o Taking part in national and international scientific societies and committees
- Participating to the funding of the laboratory, through applying to grants, collaborative exchanges and/or contract research service.
- Contributing to the laboratory management tasks with the other members of the laboratory.

To conduct these tasks, the CellTechs laboratory has a full-time research technician and can recruit students as interns or assistants at different academic levels (Academic Year 2 to 5).

The candidate is required to be experienced and have a publication record using the following techniques :

- Pluripotent stem cells (reprogramming, banking, quality control, banking)
- IPS cell differentiation methods
- Organoid and 3D culturing
- Genetic engineering (CRISPR, lentiviral)
- Imaging (Optical clearing, Light-Sheet 3D microscopy, Open-Source 3D imaging software)
- Biochemistry, Immunohistochemistry and Molecular biology (IHC, IF, WB, QPCR)

The candidate will ideally have complementary expertise in one of the following fields :

- o Microfluidics
- o Next Generation Sequencing
- o Bioinformatics

Teaching Mission

Teaching will be capped at 150 hours of teaching/year. Teaching will include :

- Providing teaching in the field of R&D in various pedagogical forms (full classes, workshops, practicals...)
- Participating in the development of programmes and courses (academic year 1 to 5), according to the profile and expertise of the candidate.
- Different pedagogical responsibilities will be expected to be conducted (internship

evaluation, program coordination, project tutoring...)

PROFILE

Degree required :

The candidate must hold a PhD in biological science.

Language:

- English : The candidate must be fluent in English (written and spoken, especially in teaching situations).
- French : The candidate should have at least an elementary level in French

The candidate should have experience in multiple professional settings, and have contributed actively to published research projects (first author). Experience in the industry or private sector is a plus.

Transportation

Research will be conducted at Fontenay-aux-Roses and teaching will be conducted on Sup'Biotech's main campus in Villejuif.

SALARY

Long-term contract

CDI de droit privé, temps plein, niveau cadre. Employeur : Association Sup'Biotech.

Gross salary : from 38 k€ to 42 k€ (according to experience) + additional company benefits

*Salaire annuel brut compris entre 38 k€ et 42 k€ selon expérience,
carte ticket restaurant, plan participation entreprises, comité d'entreprise.*

Start Date: September, 2020

HOW TO APPLY

Application deadline : July 10th, 2020

A letter of application, accompanied by a curriculum vitae outlining research activities, teaching experience and possibly a letter of recommendation should be sent to :

frank.yates@supbiotech.fr

Interviews with research and teaching staff will be organized during the month of July 2020