Ecole d'Ingénieurs

Assistant Professor (Enseignant-Chercheur)
at Sup'Biotech Lyon (France)

Pluripotent Stem Cells, Biofabrication, Tissue Engineering

The research project may be proposed with a particular focus on one or several of the following topics:
IPS cells, Organoids, Biofabrication, Bioprinting, Cell biology, Disease Modeling
CRISPR-Cas9, 3D Imaging, NGS, Neurodegenerative diseases, Microfluidics

Sup'Biotech Lyon inaugurated its campus in September 2020 to train engineers in the diverse fields of biotechnology. As part of our development, we are hiring an Assistant Prof (Enseignant-Chercheur) in life science. The position is to be filled on a full-time basis, and teaching will take place at Sup'Biotech Lyon's campus.

JOB TITLE	
Assistant Professor (*Enseignant-Chercheur*)	
Nature	Research and Teaching
Type	Full-time, long-term position, private higher education sector (*Contrat à durée indéterminée de droit privé, niveau cadre)*
EMPLOYER	
Engineering School	**Sup'Biotech** http://supbiotech.fr
Laboratory	**Based in Lyon, the candidate is encouraged to propose a host laboratory located in Lyon where his/her research could be performed in synergy with the CellTechs lab in Paris** https://recherche.supbiotech.fr/celltechs
MISSIONS AND JOB DESCRIPTION	
RESEARCH MISSION The research mission will be carried out in Lyon, in coordination with Sup'Biotech's Cell Engineering laboratory, CellTechs which is located in Fontenay-aux-Roses (France). CellTechs [1] works mainly on modeling neurodegenerative diseases with stem cells and tissue engineering (such as organoids) techniques and 3D imaging. CellTechs is aiming at conducting new collaborative projects developing	

innovative strategies to devise new applications in the field of IPS cell research. Taking advantage of the high level of the institutional environment of the Lyon metropolitan area, CellTechs is hiring its next Asst Prof. in coordination with Sup'Biotech Lyon. Candidates are encouraged to propose a project as well as a host laboratory in Lyon's academic environment with which a contractual partnership could be set up and which could host the candidate as an associate member.

Projects on tissue engineering and/or 3D biofabrication techniques using pluripotent stem cells (with applications such as cell therapy, ADME-Tox, Disease modeling, drug screening) are favored, but not limited to these applications. Possibilities of using NGS, single cell transcriptomic techniques, CRISPR-Cas9 GE, 3D imaging (light-sheet microscopy) and/or microfluidics could represent a plus.

The candidate must demonstrate excellent research skills, demonstratable by a publication track record and a capacity to obtain funding. 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. Sup'Biotech trains engineers who are recruited in the Biotech industry. For this reason, candidates with a previous post-doctoral experience in the private sector and knowledge of the industry is a plus.

Candidates should :

- Be able to **take the lead on a partnering project** between the host laboratory and the main CellTechs laboratory (Fontenay-aux-Roses, France)
- Ensure that **regular milestones** are met :
    - **Publish results in international peer-reviewed journals** (research articles and reviews, proficiency in scientific writing).
    - Apply to **research grants**, developing collaborative exchanges and/or industrial collaborations.

TEACHING MISSIONS

The candidate will accompany students towards the success of their engineering studies in biotechnology. To do so, he/she will be **in charge of several courses** in Sup'Biotech engineering students' curriculum. The subjects to be taught are mainly **Biology** and **Biochemistry** (courses, tutorials, practical work) as well as subjects related to these (ie. bacteriology, virology, biochemistry techniques..). The courses to be taught may vary from one year to the other, under the responsibility of Sup'Biotech Lyon's academic department. A detailed curriculum for the courses to be taught will be given to the candidate. The total number of hours per year will be limited to 192 hours (*Equivalent TD : excluding correction and preparation*). The courses are to be given in French for the preparatory cycle (Biotech 1 and Biotech 2, 1st and 2nd years) and in English for the engineering cycle (Biotech 3, 3rd year).

Administrative Activities and related Duties:

- Mid-internship evaluation meetings with students from all years (1 to 5)
- Participation to project and internship defense juries
- Tutoring biotechnology projects developed by groups of students.
- The hired teacher may also be involved in routine administrative activities under the direction of the Lyon campus director as well as in event activities (student fairs, open days

and Advance Jury exams…). These events may take place on weekends and/or outside the school and will then be subject to either equivalent time off or additional pay.

REQUIRED SKILLS/QUALIFICATIONS :

- Pedagogy, patience, listening, helping students succeed;
- Autonomy, organization and anticipation skills;
- Ability to work and coordinate mutually with Sup'Biotech Lyon (8 people) as well as with the larger national Sup'Biotech Paris department in order to ensure the synchronization of courses between the two sites;
- The ability to make proposals for the continuous improvement of the courses to be conducted;
- Fluency in English and in French (Courses are taught in both languages)

[1] CellTechs website https://recherche.supbiotech.fr/celltechs

PROFILE

Degree required :
The candidate must hold a PhD in biological science.

Language:
The candidate must be proficient in both French and English (courses given in both languages)

Experience :
Candidates with previous teaching experience at the Undergraduate (Licence or Master's degree) will be favoured. 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.

Location:
Research will be conducted at the host laboratory in the Lyon Metropolitan area. Teaching will be conducted at Sup'Biotech Lyon's campus (156 Rue Paul Bert, 69003 Lyon).

CONTRACT

Long-term contract
CDI de droit privé, temps plein, niveau cadre. Employer : 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: January, 2023

HOW TO APPLY

1. Submit your name on the following website : https://vu.fr/ECSBL22F

2. Send a letter of application, accompanied by a CV outlining research activities, teaching experience and possibly a letter of recommendation to :

frank.yates@supbiotech.fr and bruno.vailhe@supbiotech.fr

Interviews with research and teaching staff will be duly organized