

Postdoc at Biomimetic systems for cell engineering Research Group

Introduction to the vacant position:

The **Biomimetic systems for cell engineering** Group is looking for Postdoctoral Researcher to develop his/her project on the development of a physiological *in vitro* model of the intestinal epithelium from using organoid-derived cells.

The contract will be within the framework of the project “Engineering complex models of intestinal epithelium”, whose objective is the development of tissue-like models of intestinal tissue that can be used in basic research, disease modelling, host-pathogen interaction studies, and regenerative medicine.

Main tasks and responsibilities / The successful candidate will develop research involving:

- Cell culture and characterization of intestinal organoids
- Microfabrication of 3D hydrogel scaffolds with the villi architecture of the small intestinal tissue. Cell culture and characterization on the scaffolds.
- Development of a microfluidic device allocating the 3D scaffolds for cell culture and characterization under specialized light-sheet microscopy set up

Requirements for candidates:

- BSc on Molecular Biology, Biology, Pharmacy and PhD on Biomedicine (or equivalent).
- Experience in cell culture of organoids, microfabrication and microfluidics is desirable.
- High motivation and ability to be involved in an international multidisciplinary team
- Competencies and skills: Communication, Teamwork, Proactivity, Commitment, Collegiality, Integrity, Critical and Analytical thinking
- High level of English

We Offer:

- Number of available positions: 1
- Starting date: January 1st, 2019
- Working conditions:
 - Full time temporal contract. Very competitive salary.
 - Measures to reconcile work and family life (maternity and paternity leave, flexible schedule working hours, teleworking, 23 working days of paid holidays, 9 leave days for personal matters, among others).
- Professional development opportunities: IBEC has a Training catalogue in technical and transferable skills and organises seminars and PhD discussions. Mobility grants are offered. Mentoring programme for Postdoctoral researchers.
- Induction programme to facilitate incorporation at IBEC and additional support is provided for foreigners to obtain Visa-working permit and to install in Barcelona.

How to apply:

Interested applicants should send their CV, cover letter and the contact of two referees to: jobs@ibecbarcelona.eu before 10/12/2018 (Reference: PD-EM).

Principles of the selection process:

IBEC is committed to the principles of the Code of Conduct for the Recruitment of Researchers of the European Commission and the Open, Transparent and Merit based Recruitment principles. Thus, there are no restrictions of citizenship or gender and candidates with disabilities are strongly encouraged to apply.

Who we are?

The Institute for Bioengineering of Catalonia, IBEC is an interdisciplinary research center focused on Bioengineering and Nanomedicine based in Barcelona. IBEC is one of the top research institutions named as a Severo Ochoa Research Centre by Ministry of Economy and Competitiveness (in charge of research and innovation policy in Spain), which recognizes excellence at the highest international level in terms of research, training, human resources, outreach and technology transfer.

IBEC's mission is to develop international high-quality interdisciplinary research that, while creating knowledge, contributes to making a better quality of life, improving health and creating wealth. A close link with key universities, reference hospitals and corporations, are assets that facilitate achieving the mission.

IBEC was established in 2005 by the Generalitat de Catalunya (Autonomous Government of Catalonia), the University of Barcelona (UB) and the Technical University of Catalonia (UPC).

IBEC is located within the Barcelona Science Park and is managing 3.800 square meters facilities, 21 research groups and a team of researchers and support services of 300 people from 30 different countries. www.ibecbarcelona.eu

