

## Postdoctoral researcher at the Bioengineering in Reproductive Health Open Lab

### Introduction to the vacant position:

The Bioengineering in Reproductive Health Group offers a postdoctoral position for a candidate with experience in cell biology, stem cell technology and 3D culture. The project involves creating 3D organoids that mimic the endometrium (uterus tissue) to model the process of embryonic implantation *in vitro*.

Our laboratory is a multidisciplinary environment where biologists, biophysicists, clinicians and business developers synergize to create a unique environment shaped by science and entrepreneurship. Due to the high translational component of our research, we have established collaboration contracts with the pharma industry, hospitals and venture capital to bring our technology to the clinics and the market.

In our lab we use bioengineering methods to create 3D environments that support embryonic development outside of the mother uterus. Our systems are accessible to imaging tools which allow us to interrogate the genetics, metabolomics and mechanics of the embryo in a high throughput manner. Using our systems we are capable to (i) improve embryo culture conditions and (ii) diagnose embryos with improved implantation potential.

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

- Isolation of cells from tissues and primary cell culture
- Stem cell culture
- Bioengineering methods for 3D cell culture
- Confocal imaging (advanced level).
- Image analysis and basic code writing

### Requirements for candidates:

- Proficient at cell culture
- Experience using confocal microscopes
- Multidisciplinary qualifications are encouraged to apply (Physics/Math's, Physics/Engineering, etc.) applied to a biology lab
- Basic routine molecular biology skills (PCR, cloning etc.)
- Code writing (not necessary but highly valuable).
- Competencies and skills: Communication, Teamwork, Proactivity, Commitment, Collegiality, Integrity, Critical and Analytical thinking
- Excellent level of English

### We Offer:

- Number of available positions: 1
- Starting date: April 2020
- Working conditions:

- Full time 2-year contract. Salary will be commensurate with academic level and experience.
- 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).
- IBEC ensures equality of access to professional development opportunities irrespective of employment status, length at IBEC or other factors. The IBEC's yearly training catalogue offers a wide range of training in technical and transferable skills. Mobility grants for first stage researchers, as well as a Mentoring programme for Postdoctoral researchers are offered
- 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](mailto:jobs@ibecbarcelona.eu) before 15/03/2020 (Reference: PD-SO).

### 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.

IBEC aims for a representative gender balance at all levels of staff, so we strongly encourage women to apply. At least 40% of shortlisted applicants invited to interview will be women.



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### Protection of personal data:

IBEC ensures that applicants' personal data are processed as required by EU General Data Protection Regulation (GDPR) and Spanish Law 3/2018 on Data Protection. Personal data shall thus be processed solely for the purpose of the selection procedure.

### 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](http://www.ibecbarcelona.eu)