

## Technical Support to Research at the Research Group Biomimetic Systems for Cell Engineering

### Introduction to the vacant position:

The Biomimetic Systems for Cell Engineering Group is looking for an Technical Support to Research to work on the optimization and customization of a 3D printing device to obtain 3D cell culture substrates.

The contract will be within the framework of the GUT3D-PLATE project; a Proof of Concept project granted by the European Research Council (ERC), whose objective is the fabrication of ready-to-commercialize 3D cell culture scaffolds mimicking the intestinal physiology.

### Main tasks and responsibilities:

- Design and generate models for printing
- Design customized parts and assemblies
- Operate DLP and FDM printers
- Collaborate on the optimization of the bioinks and bioprinting process

### Requirements for candidates:

Essential:

- Degree and/or Master on industrial design, industrial engineering, mechanical engineering, medical engineering, or Certificate of Higher Education (HNC) on mechanical fabrication, industrial design, advanced mechanical fabrication programming
- Proficiency in CAD design (SolidWorks, AutoCAD, FreeCAD,...)
- Programming and analytical skills are a plus
- Competencies and skills: Communication, Teamwork and collaboration, Commitment, Proactivity, Integrity, Critical and Analytical thinking
- High level of English

Advantageous:

- Previous experience in a research laboratory, knowledge of standard laboratory procedures
- Previous experience with 3D printing/bioprinting technologies desirable
- Experience with biomaterials, material science desirable

### We Offer:

- Number of available positions: 1
- Starting date: 1<sup>st</sup> December 2020
- Working conditions:
  - Full/Part time 6-months / 1-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.
- Stimulating, interdisciplinary research and high-quality international scientific environment.
- 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 31/10/2020 (Reference: LT-EM).

### Principles of the Selection Process:

Our Recruitment and Selection Policy is based on the OTM Strategy (Open, Transparent and Merit-based recruitment) [www.ibecbarcelona.eu/jobs/](http://www.ibecbarcelona.eu/jobs/) and accept applications without distinction on any grounds. Candidates with disabilities are strongly encouraged to apply. Our commitment to OTM-R principles can also be found in our Gender and Diversity plan.



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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)