PhD Position in Biomimetic systems for cell engineering (Ref. FPU-EM)

IBEC (Institute for Bioengineering of Catalonia) is an interdisciplinary research center focused on Bioengineering and Nanomedicine based in Barcelona. 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 founded in 2005 by the Generalitat de Catalunya, the University of Barcelona (UB) and the Polytechnic University of Catalonia (UPC).

IBEC is located within the **Barcelona Science Park**, with premises of 2.500 square meters, 16 research groups and a team of researchers and support services of 250 people from 20 different countries. www.ibecbarcelona.eu

The **Biomimetic systems for cell engineering** group at the **Institute for Bioengineering of Catalonia (IBEC)** is looking for **Pre-doctorate candidates** to apply for the **2015 call** of the *Formación de Profesorado Universitario Fellowships* **(FPU 2015)** from the *Ministerio de Educación, Cultura y Deporte (MECD).*

Tasks and responsibilities:

- Investigation on novel micro and Nano(bio)technological approaches to improve the efficiency of the diagnostic tools in the clinical fields.
- Fabrication of bio-hybrid materials for *in vitro* tissue maturation
- Study the mechanical and electrical stimulus on electro-responsive tissues and cells.

Requirements for candidates:

- BSc and/or MSc Degree in Chemistry.
- Previous experience on Organic chemistry.
- Abilities and skills required: Ability to work efficiently in a multidisciplinary team.
- High level of English and good communication skills.
- Self-critical, capacity to learn and bring knowledge.

Selected references:

- Ahadian, S., et al., Biomaterials Science, 2015. **3**(11): p. 1449-1458.
- Ramon-Azcon, J., et al., Advanced Materials, 2013. **25**(29): p. 4028-4034.
- Obregon, R., et al., Biosensors & Bioelectronics, 2013. **50**: p. 194-201.

HR EXCELLENCE IN RESEARCH

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