

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



PhD Position in Nanomaterials for Drug Delivery (Ref. FPU-LA)

The [Nanoscopy for Nanomedicine](#) group at the **Institute for Bioengineering of Catalonia (IBEC)** is looking for **Pre-doctoral 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:

- To synthesize and characterize nanomaterials (e.g. nanoparticles and nanofibers).
- Study the performances of nanomaterials in cancer cells in culture.
- Use innovative microscopy techniques such as Super Resolution Microscopy to visualize nanomaterials interactions in living cells.

Requirements for candidates:

- BSc and/or MSc Degree in Biomedical Engineering, Nanoscience, Chemistry.
- Previous experience on biomaterials (e.g. nanoparticles) preparation and characterization.
- Additional skills on mammalian cell experiments and fluorescence microscopy would be an asset.
- High level of English and good communication skills.
- Self-critical, capacity to learn and bring knowledge.

Selected references:

- Science, (2014) **344** 491.
- Mol Pharm (2013) **10** 249.
- Angew Chem (2011) **50**:1-6.