



**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.

The patrons and founders of IBEC are the Generalitat de Catalunya, the University of Barcelona (UB) and the Polytechnic University of Catalonia (UPC).

IBEC is located within the Barcelona Scientific Park, with premises of 2.500 square meters, 15 research groups and a team of researchers and support services of 250 people from 20 different countries.

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## Postdoctoral Research Position (Ref. PR-AR)

A joined postdoctoral position in the area of Biophysics is available to start in Spring 2012. This research will be based in two institutes: (1) The Institute for Bioengineering of Catalonia (IBEC) in Barcelona and (2) The Barts Cancer Institute at the Queen Mary University of London.

### The successful applicant will be involved in:

- Forefront *in vivo* and *in vitro* biophysical techniques to investigate the effect of mechanical forces in cells and molecules.
- Design and construction of a magnetic tweezers apparatus that will be used to apply controlled forces to single molecules and single cells.

### Essential requirements:

- PhD in physics, biology, chemistry, engineering, or other relevant areas.
- Demonstrated ability to communicate well and to perform experimental work.
- Capacity to bridge the work between the two teams.
- High level of English.

### Experience:

- It is highly desirable that the candidate has previously participated actively in an instrumentation project, either at the pre-doctoral or post-doctoral level.
- Experience in one or more of design, fabrication, assembly, alignment & testing and implementation of laboratory equipment is a plus.
- Experience in Labview programming (or similar software) will be highly valued.
- Experience in cell imaging microscopy and/or cellular biophysics is also very advantageous.

### We offer:

- 2 year contract with the possibility of extending for one more year.
- Benefit package and a research budget for travel and subsistence.

To **apply for the position**, please send your CV, full academic sheet and cover letter to: [jobs@ibecbarcelona.eu](mailto:jobs@ibecbarcelona.eu), **before 17/02/2012 (Reference: PR-AR)**.

For further **scientific details** please contact Prof. Pere Roca-Cusachs at: [rocacusachs@ub.edu](mailto:rocacusachs@ub.edu) ([www.ub.edu/biofisica/procacusachs.html](http://www.ub.edu/biofisica/procacusachs.html)).