



ibec Institut de bioenginyeria
de Catalunya

PhD position in Bio-physics

The Institute for Bioengineering of Catalonia (IBEC) is a vertical institute aiming to develop multidisciplinary research of excellence, from basic research to medical applications, in the biomedical engineering field. IBEC focuses its activity on six research programmes related to cellular biotechnology; nanobioengineering; biomechanics and cellular biophysics; biomaterials, implants and tissue engineering; signals and medical instrumentation; and robotics and biomedical imaging.

The research environment in life sciences in Barcelona is excellent with international centres of excellence in biomedical research and powerful technological facilities. IBEC was established in 2005 by the Government of Catalonia, the University of Barcelona and the Technical University of Catalonia and is located at the Barcelona Science Park.

The BioNanoPhotonics group at IBEC focuses its research activities in the field of single (bio)molecule detection and analysis working at the intersection between Physics and Biology (<http://www.ibecbarcelona.eu/> under Nanobioengineering). The group is currently offering **one research position at PhD level**. The successful candidate will work on the development and application of micro and nano-patterned surfaces to study ligand-receptor interactions at the individual molecular level on living cells. Her/his work will combine state-of-the-art single molecule far- and near-field optical techniques with nanofabrication and optical characterization at the nm scale. The project will be performed in the framework of European partnerships and will offer opportunities for short/middle-term stays in partner's institutions.

The fellowships are offered for periods of one year, renewable for a total of four years to complete the PhD.

Requirements

The successful candidate should have a background in biochemistry, physical chemistry or biophysics. Priority will be given to candidates with experience in biophysics, single-molecule techniques and/or microfabrication techniques. A fluent level of English is compulsory. Candidates that fit into this environment are invited to apply.

Applicants should send a covering letter stating their suitability for and reasons of interest in the position, together with a full CV, academic record and contact details of 3 referees by email to Prof. M. F. Garcia-Parajo at mgarcia@pcb.ub.es

Administració
Baldri i Reixac, 13 | 08028 Barcelona
Tel.+34 93 403 97 06 | Fax +34 93 403 97 02
www.ibecbarcelona.eu