



FPI – PhD Position in Signal Processing (Ref. FPI-SM)

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.

www.ibecbarcelona.eu

The Artificial Olfaction group at the Institute for Bioengineering of Catalonia (IBEC) is looking for a **PhD candidate** to apply for the 2012 **FPI call** from the Ministerio de Economía y Competitividad.

Tasks and responsibilities:

- Development of algorithms for the navigation of a robot for the autonomous localisation of toxic leakages.
- Processing of Ion Mobility Spectra time-series.
- Programming for real time operation.
- Algorithms testing.

Requirements for candidates:

- Degree in telecommunications engineering, bioengineering or physics.
- Very good academic record.
- Academic CV should include courses in signal processing and/or intelligent computing (neural networks, Fuzzy systems) and statistics.
- Good level in MATLAB and C programming.
- A degree or master project in signal processing will be highly valued.
- High level of English.

Interested applicants should send their CV, cover letter and references to: jobs@ibecbarcelona.eu, **before 17/02/2012 (Reference: FPI-SM).**

