UNIVERSITAT POMPEU FABRA

Job offer: Biomedical Engineer (background in electronics)

Research/Engineering position within the Department of Information and Communication Technologies (DTIC) at UPF (Barcelona)

(announcement of October 1st, 2010)

You will participate in a number of biomedical engineering projects focused on clinical applications and within the framework of bioelectrical engineering. More specifically, you will do research on tissue irreversible electroporation, diathermia and electrochemical methods for oncology.

You will conceive, design and implement electronic devices and systems and you will use them *in vitro*, *in vivo* and clinically in close collaboration with life sciences researchers. You will also perform numerical simulations related to the phenomena under study.

You will participate in international meetings and you will report your results in scientific journals. If interested, you will be able to do your PhD at the DTIC.

Your profile:

- You have a BSc or MSc in engineering or physics and you have a very solid background in electronics.
- You also have a MSc in Biomedical Engineering or some sort of background in biology and medicine.
- You are highly motivated in scientific research and in challenging engineering developments. You are an enthusiasm for learning and you are willing to develop skills as needed to complete challenging projects.
- You are able to communicate well and work closely with other team members. You are very fluent in English.
- You have strong analytical and problem solving skills, and independent decision-making abilities. Both independent and team-oriented work will be required.
- Key competences: analog electronics, instrumentation systems, microcontroller and FPGA programming, PCB design, LabVIEW, Matlab, numerical methods (COMSOL Multiphysics).

E-mail your CV and presentation letter to: (in Catalan, Spanish or English)

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