

## **Technicians, PhD Studentships and Postdoctoral Research Positions**

Experimental Virtual Environments for Neuroscience and Technology (EVENT) Lab

University of Barcelona, Spain

22<sup>nd</sup> January, 2010.

[www.event-lab.org](http://www.event-lab.org)

We are seeking applicants for several positions in our group that carries out research in virtual reality, with applications in aspects of neuroscience and psychology. There are postdoctoral research assistant positions and pre-doctoral positions suitable for potential PhD students. There are also technical and administrative posts available. These positions are available under a European ERC project TRAVERSE.

The working language of the group is English, and a good command of English is essential for all of the positions available – this includes both spoken and written English.

Applicants should have one of the following types of profile:

### **Computer Graphics and Virtual Reality**

The ideal applicant will have a strong background in computer graphics and/or virtual reality systems. The specific areas of research of interest are:

- real-time animation of characters in virtual reality including real-time facial animation and controlling the facial movements and behaviours of a character in a virtual reality environment.
- new forms of interaction in virtual environments including body centred interaction and Brain-Computer Interface control
- haptic feedback, including understanding human response to haptics

### **Cognitive Science and Computer Science**

Here we require applicants who have followed interdisciplinary path with some background in neuroscience or psychology and also computer science. The primary area of interest is in body consciousness, in particular the relationship between a person's real body and the body of a virtual character that might represent them in virtual reality.

### **Statistical Science, signal processing**

In most of our work we carry out experimental studies with subjects. We are looking for researchers who are able to design experiments and analyse the results. A lot of the data that we gather is physiological times series data, so a background in signal processing would also be advantageous.

**Virtual Reality Manager**

We are looking for someone who has experience in managing complex multimedia systems, in particular projector based visual display equipment. The appointed person will be managing a virtual reality CAVE system, and other associated equipment. The appointed person will have a degree in an engineering or computer science discipline, and have associated experience of managing such equipment.

**Technical/Administrative Assistant**

We are looking for someone to work on the administrative aspects of a large and growing laboratory, who may also be interested to become involved in and learn about and support some of the technical work of group. Applicants should have a good command of Catalan, Castellano and English. Any technical background in computing, engineering, communications or others would be considered.

**Facilities**

The group has access to a wide range of equipment. A 4-sided Cave system will be installed in the first half of 2010, there a wide field of view head-mounted display with more on order, associated tracking systems including a motion tracking system, physiological and EEG recording systems, and a haptics system.

Further information can be obtained from Mel Slater [melslater@ub.edu](mailto:melslater@ub.edu). CVs should be sent to Mel Slater by 19<sup>th</sup> February, 2008 at the latest. The CV should include previous experience, publications, and the names and contact details of two referees.

Contact: Mel Slater, [melslater@ub.edu](mailto:melslater@ub.edu).