

## **Posdoctoral - FAPESP**

**Title:** Posdoctoral in Land Use Change in Amazonia

**FAPESP Process Nº:** 2008/58112-0

**Project title:** Land Use Change in Amazonia: Institutional Analysis and Modelling at Multiple Temporal and Spatial Scales (LUA/IAM)

**Principal Investigator:** Gilberto Câmara Neto

**Local:** Instituto Nacional de Pesquisas Espaciais (INPE)

**Posted:** August 18, 2010

**Expires:** September 01, 2010

### **Summary:**

The Research Project “Land Use Change in Amazonia: Institutional Analysis and Modelling at Multiple Temporal and Spatial Scales”, funded by FAPESP, offers one Pos-Doctoral degree scholarship, for one year period, at National Institute for Space Research (INPE), to develop the Sub-Project entitled “Detection and description of occupation patterns and trajectories in multitemporal satellite data”. This pos-doctoral project aims to develop new methodologies to identify and characterize the patterns and trajectories of occupation in Amazonia region using data mining techniques, landscape ecology and multitemporal data analysis. The result will be a framework that allows, in an easy and efficient manner, to analyze the deforestation patterns associated with different processes and stages of human occupation in the Amazon Forest.

The candidate must have graduate and doctoral degree (recent) in Computation Science, scientific articles (in English) published in indexed journals, experience in C++ and Java programming, detailed knowledge of digital image processing (segmentation) and graph theory. It is expected that the candidate be a self-motivated person with skill to organize research tasks with autonomy and write scientific articles and reports related to the project, in English.

Interested candidates should send the following documents by September 1, 2010: cover letter, noting the interest for this scholarship with a short report of previous experience, full resume and three letters of recommendation.

Further information could be provided by Dra. Leila Fonseca at [leila@dpi.inpe.br](mailto:leila@dpi.inpe.br).

### **Documents must be sent by September 1, 2010 to:**

Dra. Leila Fonseca

Divisão de Processamento de Imagens – DPI

Instituto Nacional de Pesquisas Espaciais

Av. dos Astronautas, 1758, Jardim da Granja

12227-010, São Jose dos Campos, SP