

Postdoc Position in Data Analysis and Ecological Modelling at University of São Paulo-Brazil

Activities and context

The postdoctoral fellow will be responsible for analyzing empirical and remote sensing data and for developing an adaptive Dynamic Global Vegetation Model (aDGVM) to assess current and future fire risks and impacts in the Cerrado.

Responsibilities

- analyze/ integrate remote sensing and existing empirical datasets
- contribute to building a conceptual model of fire dynamics in savannas
- parameterize an aDGVM for the Cerrado and integrate it with a predictive fire model
- co-supervise students and technicians
- prepare scientific papers, policy briefs, other materials
- assist organizing workshops

Mandatory requirements

Experience/expertise in:

- data analysis and statistics (R and/or Python)
- remote sensing
- programming (preferably C++)
- process-based ecological models (ideally DGVMs)
- high-performance or cloud computing
- basic savannah ecology

Residence in the city of São Paulo

Fluency in English

Research experience, with relevant publications

Available for internship at the Senckenberg Biodiversity and Climate Research Centre, Frankfurt, Germany

PhD completed no more than 7 years ago

Desirable requirements

- proficiency in Portuguese
- ability to work effectively in an interdisciplinary team

How to apply

Send an email to <vrpivel@usp.br> with the subject line “PD SCHOLARSHIP – SÍNTESE PROJECT”, including: a) a cover letter (up to 500 words), b) a CV (up to 3 pages), c) three references (names, job titles and email addresses).

Duration of the scholarship: 24 months.