

# Engineering Research Center Plant Health (Sugarcane)

São Paulo State University - Unesp  
Jaboticabal, SP, Brazil

## Post - Doctorate Selection Process in Mathematical Modeling and Data Sciences Applied to Plant Health

### BRIEF DESCRIPTION

The selected candidate will carry out research activities in the area of Mathematical Modeling and Data Sciences applied to Sugarcane Plant Health, with involvement in the following topics: spatiotemporal population dynamics modeling, arthropod pest forecasting models and pest management decision making, at the Engineering Research Center – Plant Health in Sugarcane (ERC-PHS). The selected candidate will also participate in educational activities and student advice within the Graduate Program in Agronomy (Agricultural Entomology) at FCAV-Unesp, Jaboticabal, SP, Brazil, as well as technical and scientific meetings. The selected candidate will be responsible for proposing and implementing a research project on sugarcane, defined as a priority and strategic for the ERC-PHS, in articulation with the research institutions associated with the Center and under the supervision of Dr. Odair Aparecido Fernandes, director of the ERC-PHS.

### I- Process characteristics

- ✓ Background of the candidate: Agronomic Engineering/Agronomy, Biomathematics, Biometrics, Biological Physics, Statistics and related areas with a focus on the area of Plant Health.
- ✓ Number of positions: 01
- ✓ Responsible Researcher: Dr. Odair Aparecido Fernandes
- ✓ Institution unit: Unesp/FCAV
- ✓ Location: Rod. Prof. Paulo Donato Castellane km 5, Unesp, Jaboticabal-SP, Brazil.
- ✓ Deadline: 12/03/2021
- ✓ Duration of the Fellowship: 12 months (can be renewed)
- ✓ Fellowship value: R\$ 88,477.20 a year (R\$ 7,373.10/month)
- ✓ Post-Doctorate Program: Feb/2022 – Jan/2023

## **2- Candidate requirements**

The candidate must have a Ph.D. degree developed in a topic related to the area of Mathematics, Statistics and related domains. The candidate must demonstrate training and interest in the area described, as well as predisposition for interdisciplinary research. It is considered relevant, but not mandatory, that the candidate presents knowledge and experience in studies applied to sugarcane and publications in indexed scientific journals.

The candidate must have earned the Ph.D. less than seven years ago upon the application. He/She must have exclusive dedication to the Post-Doctoral program. Candidates with international research experience (short and long internships, participation in collaborations) are strongly desired.

The candidate must have availability of residence in the city of Jaboticabal, SP.

## **3- Documents required for enrollment**

### **✓ Resume**

Brazilian or foreign candidates must send an updated curriculum vitae (CV), being allowed to send the curriculum of Plataforma Lattes – CNPq. Curriculum Vitae must be sent as a "pdf" file. If the candidate is selected, the supporting documents related to education, professional and academic experiences will be requested to complete the process and grant the fellowship. If the candidate does not present the documents when requested, he or she will be eliminated from the process.

### **✓ Cover letter**

The candidate must prepare an objective cover letter (up to two pages) stating his/her motivations and expectations for the post doctorate program. The candidate must also report his/her expectation and adherence of competences and skills to the requirements of this postdoctoral opportunity.

### **✓ Reference letter**

The candidate must present two reference letters prepared by his/her former advisors or supervisors, in which they report the candidate's qualifications for the post-doctorate position.

**Important** – All documents mentioned above (resume/CV, cover letter, reference letters) may be submitted in Portuguese or English.

## **4- Selection Process**

O the selection process for this opportunity will be carried out by ERC-HPS researchers considering analysis of the required documents and interview of the candidates. The required documents must be sent to the email: [stela.montoro@unesp.br](mailto:stela.montoro@unesp.br) until **11:59 p.m. (Brasilia time)** on **12/03/2021**, with the subject line “**Opportunity CPE-PD/CPE**”.

Jaboticabal, November 03<sup>th</sup>, 2021.