

Postdoctoral Fellowship & shy; Biogeochemical Modelling
in integrated crop-livestock systems
Universidade Estadual de Campinas

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Posted Feb. 27, 2020, set to expire Jun. 28, 2020

Job Title Postdoctoral Fellowship & shy; Biogeochemical Modelling in integrated crop-livestock systems
Department NIPE
Institution Universidade Estadual de Campinas
Campinas, São Paulo, Brazil

Date Posted Feb. 27, 2020

Application Deadline Mar. 16, 2020

Position Start Date Apr. 1, 2020

Job Categories Post-Doc

Academic Field(s) Agricultural - General

Job Website http://fapesp.br/oportunidades/modelagem_biogeoquimica_em_lavourapecuaria_integrada_sist

Apply By Email jprates@unicamp.br

Job Description

The successful candidate will parameterize, test and apply biogeochemical model simulations (such as Daycent, Agrolbis, DSSAT) in a crop-livestock environment considering coupled carbon-nitrogen cycles at local and regional scales. The successful candidate will parameterize existing process-based models with infield measurements data at an experimental farm located in Caiuá, SP-Brazil. The post-doc is part of the FAPESP - NWO Research "Monitoring Integrated Crop-livestock Systems Through Remote Sensing and Precision Agriculture for more sustainable Production- Toward Low

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Carbon Agriculture (FAPESP 2017 / 50205-9)". Several laboratories and institutions collaborate in this project, such as NIPE and School of Agricultural Engineering of Unicamp, Embrapa Agricultural Informatics and the Delft University-Netherlands.

The post-doc will be under the supervision of Dr. Rubens Lamparelli, Dr. Santiago Vianna Cuadra and Dr. Gleyce Figueiredo and will collaborate with different researchers involved in the project.

The fellowship is related to one year extendable for one more year, and includes a tax-free monthly stipend of R\$ 7.373,10, plus 15% of the yearly value for research related expenses. All conditions and salary related to this FAPESP post-doc are listed there: <http://www.fapesp.br/en/postdoc>

Desired skills and competence

- A Ph.D. in earth system science, ecophysiology, agronomy or related discipline.
- Previous experience in process-based modelling of soil biogeochemical and crop growth models, confirmed by publications in this subject area.
- Working knowledge and experience on coding languages Fortran, C++ and R.
- Minimum qualifications include a demonstrated ability to publish peer-reviewed papers, effective oral communication skills, and to work well in a collaborative team environment.
- Knowledge on GitHub platform will be a bonus.
- Experience with analysis of remotely sensed data will be a bonus
- Strong interpersonal skills and adequate fluency in English will be a bonus
- Full-time work, 1 year, starting in March 2020, with the possibility of an extension.
- All conditions and salary related to this FAPESP post-doc are listed there: <http://www.fapesp.br/en/postdoc>

Selection process

Inquiries should be directed by email to Dr. Paulo Graziano (graziano@unicamp.br) with a copy to NIPE project manager (Johinislan Prates, jprates@unicamp.br), including "FAPESP project 2017/50205-9 post-doc PD5" in the subject line.

Send a cover letter stating your professional experiences and how you would satisfy the minimum qualifications (2 pages max), a CV, and two recommendations letters (all documents in pdf format). Submissions by email until March 16th , 2020.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Joni

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NIPE

Universidade Estadual De Campinas

Cora Coralina 330

Campinas, São Paulo 13083-896

Brazil

Phone Number 551935211239

Contact E-mail johinisl@nipe.unicamp.br