

<b>Lead institution: ESALQ/USP</b>	
<b>Supervisor name: C. E.P. Cerri</b>	<b>Department: Solos</b>
<b>Recipient:</b> <a href="https://sites.usp.br/rcgi/opportunities/">https://sites.usp.br/rcgi/opportunities/</a>  <b>Ref: 24PDR282 - Postdoctoral Fellowship</b>  <b>Deadline for submission: June 30<sup>th</sup>, 2024</b>	<b>Type: Post-doc</b> <b>Period: 12</b> <b>Number of months: 12</b> <b>Intended beginning date: July, 2024</b>
<b>Project title: (Portuguese and English)</b>	
<p>Melhorando o Manejo da Pastagem como “Solução Baseada na Natureza” para Sequestro de Carbono no Solo no Brasil - Pasture4C</p> <p>Modeling soil C and GHG as affected by agricultural scenarios with integrated production systems and pastures under climate change in Brazil - Pasture4C</p>	
<b>Research theme area: (Portuguese and English)</b>	
<p>Work package IV – Integração de dados: modelagem e análise de cenários e ecossistema Abordagens de serviços em sistemas de manejo de pastagens</p> <p>Work package IV – Data integration: modelling and scenario analyses and ecosystem service approaches in pasture management systems</p>	
<b>Abstract (Portuguese and English)</b>	
<p>O candidato irá colaborar com os pesquisadores do programa RCGI FAPESP-Shell Centro de Pesquisa para a Inovação de Gás da POLI-USP na Universidade de São Paulo. Resumo do programa e os projetos podem ser encontrados no site da RCGI (<a href="https://sites.usp.br/rcgi/">https://sites.usp.br/rcgi/</a>).</p> <p>The candidate will collaborate with researchers from the project XXXX of the FAPESP-Shell Research Centre for Gas Innovation of POLI-USP at the University of São Paulo. Summary of the program and projects can be found at the RCGI website (<a href="https://sites.usp.br/rcgi/">https://sites.usp.br/rcgi/</a>).</p>	
<b>Description (Portuguese and English)</b>	
<p>O candidato contribuirá com as seguintes atividades, alinhado aos principais objetivos do projeto:</p> <ol style="list-style-type: none"> <li>1. revisar, atualizar e compilar bases de dados de solo e manejo de solos em áreas prioritárias no Brasil definidas pelo Projeto, extraindo dados formatados para aplicação em modelagem (Daycent e/ou GlobalComet);</li> <li>2. executar a modelar da dinâmica C do solo e as emissões de gases de efeito estufa (Daycent e/ou GlobalComet) nas áreas prioritárias do Projeto;</li> </ol> <p>The applicant will contribute with the following activities, in line with the main objectives of the project:</p>	

1. review, update and compile soil and soil management databases from selected areas in Brazil, extracting formatted data for application in modeling (Daycent and/or GlobalComet);
2. Perform the modeling of soil C dynamics and greenhouse gas emissions (Daycent and/or GlobalComet) in selected areas within the scope of the project;

**Requirements to fill the position. (Ex: specific experience, minimum or maximum years after concluding the course) (Portuguese and English)**

Buscamos candidatos mestre em Ciência do Solo ou áreas afins nas Ciências Agrárias, com grande motivação para pesquisa científica colaborativa. Afinidade e habilidades para trabalhos computacionais de média, em particular com plataformas de geoprocessamento e manipulação de base de dados em ambiente R são requeridas. Experiência prévia com modelagem de ciclos biogeoquímicos será adicionalmente valorizada no processo de seleção. A proficiência em inglês é necessária.

We seek candidates with MSc in Soil Science or related areas in agricultural sciences highly motivated for collaborative scientific research. Affinity and skills for medium complexity computational work, specifically with geoprocessing and database manipulation in the R environment platforms is required. Previous experience with modeling of biogeochemical cycles will be highly valued in the selection process. English proficiency is required.

**Funding Notes:** This Postdoc is funded by FUSP. The fellowship will cover a standard monthly stipend of R\$ 8.479,07 for this assignment.

**Work place:** ESALQ USP / Piracicaba-SP

**Documents/Information to be Sent:**

**Ref:24PDR282**

- 1) Access the link <https://sites.usp.br/rcgi/opportunities/>
- 2) Find the Position **Ref: 24PDR282**
- 3) Click on Application to apply

**Deadline: June 30<sup>th</sup>, 2024**

In case you have any question, please write to [rcgi.opportunities@usp.br](mailto:rcgi.opportunities@usp.br)