

FORMULÁRIO DE DESCRIÇÃO DE VAGA PARA DIVULGAÇÃO E PROCESSO SELETIVO	
Lead Institution: USP	
Address:	
Supervisor name: A. Delbem, A. Saraiva, a C4AI-AgriBio coPI	Supervisor department: Poli-USP, ICMC-USP, other USP institute associated to C4AI-AgriBio
Type (undergrad, master, PhD, PD): PD Number of months: 12	6 vagas de pós-doutorado
Project title: construção de modelos causais a partir de dados crus para tomada de decisões multicritério ("construction of causal models from raw data for multicriteria decision making")	
Research Group: C4AI-AgriBio	
Description (English)	
<p>The candidate will collaborate with researchers from the project 'AgriBio Challenge' of the Center for Artificial Intelligence at the University of São Paulo. A summary of the Center and projects can be found at the C4AI website (https://c4ai.inova.usp.br/)</p> <p>The project deals with agribusiness and social data, mainly involving low-income producers and consumers, focusing on building models that benefit the generation of mechanisms and decision-making by managers in favor of increasing food security and quality.</p> <p>The applicant will contribute to the main objectives of the project through the following activities:</p> <ol style="list-style-type: none"> 1. Treatment of large-scale structured and unstructured data; 2. Development of computational methods for automatically constructing (explainable) models based on graphs; 3. Development of methods for testing causality of the learned relationships from models; 4. Selection of models based on multiple criteria or objectives. 	
Requirements to fill the position. (Ex: specific experience, minimum or maximum years after concluding the course) (Portuguese and English)	
<p>This project is suitable for a candidate with a PhD degree and a focus on innovations in Artificial Intelligence with the potential for socio-economic impact. The candidate needs to know at least programming in C or R or Python, in addition to training in one or more of the following areas: i) inferential statistics (classical or Bayesian), or ii) multi-criteria decision making, or iii) data mining; or iv) evolutionary computation, or v) optimization.</p>	
Information of scholarship and workplace	
<p>Scholarship FUSP (X) Valor de: R\$ 9.326,97 monthly. 12 month period.</p> <p>Location: Sao Paulo -SP with periods in Sao Carlos – SP or vice versa.</p> <p>Observation: Attendance in person must prevail during normal sanitary periods to carry out activities in USP research laboratories.</p>	