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ANEXO 1 - RESUMO EM INGLÊS

Call for Faculty Position, Announcement 12/2024/CENA/DVACAD

APPLICATIONS ARE NOW OPEN FOR THE SELECTION PROCESS FOR A DOCTOR PROFESSOR POSITION AT THE CENTER OF NUCLEAR ENERGY IN AGRICULTURE, UNIVERSITY OF SÃO PAULO, BRAZIL.

The Dean of the Center of Nuclear Energy in Agriculture, University of São Paulo (CENA/USP), Brazil, announces all interested persons that, per the decision reached at the ordinary session of the Deliberative Council held on 04/09/2024, applications are open for 90 (ninety) days, from July 2th, 2024, at 8 a.m., to October 30th, 2024, at 5 p.m. (GMT -3), for the selection process of titles and examinations to fill one (1) position of Doctor Professor, position N° 1245597, in full-time dedication service.

The position requires commitment to teaching and ability to conduct independent research in the study area: "Plant Ecophysiology". The selection process will comprehend the following program:

- The environment and plants: abiotic and biotic factors in plant life and soil-plant-atmosphere relationship.
- Photosynthetic process and photo-respiration: photosynthesis and photorespiration reactions; integration between photochemical and biochemical stages; photosynthetic products; C3, C4 and CAM metabolism and influence of environmental factors.
- Phenology and leaf functional attributes and abiotic factors influence.
- Plant transport relationship: allocation, translocation and distribution of photoassimilates; source/drain; transport mechanisms.
- Water relations in plants and their interaction with soil and atmosphere.
- Mineral nutrition and metabolism: nutrients absorption and transport; nutrients use efficiency; interaction between nitrogen and carbon metabolism.
- Ecophysiological aspects in growth and development: concepts. Ontogenesis in vascular plants. Plasticity of plant development.
- Evolution of adaptation mechanisms to abiotic and biotic stressors.
- Plant ecophysiology, plant adaptation and climate change: interactions between CO2 concentration increase in the atmosphere, gas exchange, temperature and water availability.
- Influence of plant ecophysiology on ecosystems primary productivity.
- Use of stable isotopes in ecophysiological studies of plants and the influence of climate and environmental changes.

The selection process will be governed by Brazilian constitutional principles, notably that of impersonality, as well as by the provisions of the Statute and General Rules of the University of São Paulo and the Internal Rules of the Center of Nuclear Energy in Agriculture.

The selection process will be carried out according to objective criteria, in two stages, through the attribution of scores in exams, divided as follows:

1st stage (eliminary) - written exam (weight 2)

2nd stage:

I) evaluation of the Memorial with public proof of argumentation (weight 5)

II) didactic exam (weight 3)

The exams can be performed in Portuguese or English.

The call for applicants to take the exams will be published in the Official State Gazette. Candidates who present themselves after the established time will not be able to take the exams.

The official announcement in Portuguese is available at <https://uspdigital.usp.br/gr/admissao> where registration applications must be made during the period stated above.