

Notice

1 (one) PhD Scholarship - DeSIRA_Rains EWS

- **ORGANISATION/COMPANY**

Instituto Superior de Agronomia

- **RESEARCH FIELD**

Natural sciences (Climatology, Atmospheric Sciences, Atmosphere Physics)

- **RESEARCHER PROFILE**

PhD

- **APPLICATION DEADLINE**

14/03/2023

- **LOCATION**

Portugal › Lisboa, Grenoble › France, Ziguinchor › Senegal, Guinea-Bissau

- **JOB STATUS**

Full-time

- **HOURS PER WEEK**

35

- **OFFER STARTING DATE**

- **01/03/2023**

- **EU RESEARCH FRAMEWORK PROGRAMME**

DeSIRA

- **REFERENCE NUMBER**

FOOD/2019/412-700

OFFER DESCRIPTION

Notice resume:

The call is open to holders of a MSc. degree in academic fields encompassing the scientific domains of Climatology, Atmospheric Sciences, or Atmosphere Physics. Availability to conduct field work in rural areas in Guinea-Bissau is mandatory and should be expressed in the motivation letter. Candidates are expected to do research within the framework of the project “Mangrove, mangrove rice and mangrove people: sustainably improving rice production, ecosystems and livelihoods (MALMON)“, ref^a FOOD/2019/412-700 (<https://www.malmon-desira.com/>) funded by the European Commission through the DeSIRA Program.

Notice

Call for 1 (one) PhD Scholarship

Ref **DeSIRA Rains EWS**

The University of Lisbon’s School of Agriculture (ISA), opens a call for applications for the award of one (1) PhD Scholarship, within the framework of the project “Mangrove, mangrove rice and mangrove people: sustainably improving rice production, ecosystems and livelihoods (MALMON)“, ref^a FOOD/2019/412-700 (<https://www.malmon-desira.com/>) funded by the European Commission through the DeSIRA Program, under the following conditions:

Scientific area

Climatology, Atmosphere Sciences, Atmosphere Physics

Eligibility criteria

The call is open to holders of a masters degree in academic fields encompassing the scientific domains of Climatology, Atmosphere sciences or Atmosphere Physics. Availability to conduct field work in rural areas in Guinea-Bissau is mandatory and should be expressed in the motivation letter.

The applicant must be enrolled in PhD studies at the time of scholarship contract.

Evaluation criteria

- Familiarity with satellite and ground-based observational data products, including knowledge of data quality control of daily records
 - Experience in weather data and forecasting products
 - Ability to process and manipulate large datasets (in common scientific formats such as NetCDF, or GRIB2)
 - Strong programming and scripting skills in appropriate languages (e.g. Python, Fortran, R or MATLAB)
- Good knowledge of Geographic Information Systems (GIS) and remote sensing
- Excellent written and oral communication skills in English
 - Strong organizational skills, scientific creativity and independence shown by scientific records, including publications and research projects

Work Plan

The successful candidate will participate in the activities of the project “Mangrove, mangrove rice and mangrove people - sustainably improving rice production, ecosystems and livelihoods”, with the aim of:

- 1) acquiring and processing climate data based on in-situ network of stations, satellite products and other services;
- 2) analysing the past evolution of extreme rainfall events (frequency and magnitude) considering the intra-seasonal and inter-annual variability of these extreme events; definition of critical rain thresholds;
- 3) Investigating the relationships between rice production and the occurrence of extreme rainy events combined with remote sensing indicators provided by ASAP (Anomaly Hotspots of Agricultural Production);
- 4) Conceiving and creating an EWS (Early Warning System) to plan and help predict the distribution of the rainfall events, the dates of start and end of the rainy season, in contrast to the duration and frequency of dry spells, taking into account the consequences for mangrove swamp rice production in Guinea-Bissau;

- 5) write and publish articles in peer-reviewed journals highlighting research findings; work on project reports and present findings at international conferences

Applicable law and regulation

Statute of the Scientific Research Fellow, approved by Law no. 40/2004, published in Diário da República no. 194/2004, Series I-A, 2004-08- 18, in the wording given by Decree-Law no. 123 / 2019, of August 28 and Regulation of Scholarships of the University of Lisbon in the wording given by Order No.-8061/2022,-July 1.

Workplace and scientific supervision

The accepted candidate's workplace will shift between Lisbon (University of Lisbon's School of Agriculture), Senegal (Université Gaston Berger, Saint Louis), France (Institut des Géosciences de l'Environnement) and Guinea-Bissau and will have as his/hers tutors: _Professors Sílvia Carvalho, Abdoulaye Dème, Gérémy Panthou and Théo Vischel.

Beneficiaries and eligibility

This call is open to:

- National citizens or citizens of other EU Member States
- Citizens of third-party states, holders of a valid residence permit or beneficiaries of a long-term VISA in any EU Member States at the time of the signature of the contract

Duration of the scholarship:

-This position is opened for 18 months non-renewable and will begin on March of 2023_.

Benefits

The value of the scholarship will be 2.008,65 € while abroad, and 1.199,65 € while in Portugal according to the table of values of monthly maintenance allowances, fixed in annex I of the Scholarship Regulation of the University of Lisbon in the wording given by Order no. 8061/2022, July 1. The scholarship will be paid monthly by bank transfer.

While in Portugal or Guinea-Bissau the candidate will be entitled to personal accident insurance and, if not covered by any social protection scheme, can ensure the exercise of the right to social security

by joining the voluntary social insurance scheme, under the terms of Code of Contributory Regimes of the Social Security System.

Selection methods and their valuation

The selection methods to be used will include grading on a scale of 0 to 20 based on the following components: curriculum assessment (80%) and motivation letter (20%).

The candidates' CV will be evaluated considering the following parameters: Relevance of the training area (20%), relevance of professional experience, including the evaluation criteria (40%), scientific publications (40%).

The jury may not award the scholarship if no candidate with the appropriate profile is found.

Jury Composition of the call

President – Sílvia Carvalho

Effective Member – Abdoulaye Dème

Effective Member – Gérémy Panthou

Substitute Member – Marina Temudo

Substitute Member – Marie Paule Bonnet

Form of publicity / notification of results

The results will be communicated to all candidates by email.

Application Deadline

The call is open from **March 01 to 14, 2023**

Documentation to be submitted

- Detailed curriculum vitae;
- Motivation letter;
- Copy of the certificate(s) of academic qualifications with the final grade and grade obtained;
- Copy of proof of fulfilment of the requirements indicated in the “Beneficiaries and eligibility” section above;
- Document proving the enrollment in the PhD

The omission of any of the elements will be reason for exclusion of the contest.

If the qualification has been granted by a foreign higher education institution, it will have to be recognized by a Portuguese higher education institution by the Directorate-General for Higher Education (DGES, only in case of automatic recognition), under the terms of Decree-Law no. 341/2007, of 12 October, regulated by Notice no. 227/2017, of July 25 and updated by Decree-Law No. 66/2018, published in the Diário da República, 1st series, No. 157, of August 16, 2018. For getting more information about this, we suggest consulting the DGES portal (<http://www.dges.gov.pt>). It may be waived its presentation in the application, being replaced by the applicant's declaration of honour, stating that the candidate has completed the bachelor's degree or the master's degree by the deadline for the application, with the verification of this condition only in the stage of contract formalisation of the scholarship.

The documentation must be sent by email to the following e-mail address: filipazacarias@isa.ulisboa.pt, indicating the reference DeSIRA_Rains EWS in the subject of the e-mail

Authorized on February 27, 2023, by the President of Instituto Superior de Agronomia, António Guerreiro de Brito