

## Notice

Call for Research Scholarship

Ref **DeSIRA\_RS\_Deteção\_Remota**

The University of Lisbon's School of Agriculture (ISA), opens a call for applications for the award of one (1) Research Scholarship, within the framework of the project "Mangrove, mangrove rice and mangrove people: sustainably improving rice production, ecosystems and livelihoods" funded by the European Commission through the DeSIRA Program, under the following conditions:

### Scientific area

Environmental remote sensing

### Eligibility criteria

The call is open to holders of a degree in academic fields encompassing the scientific domains of remote sensing and of data analysis. Candidates are expected to be enrolled in a training programme not leading to a degree.

### Evaluation criteria

- Knowledge in using GIS and remote sensing software
- Experience in using satellite data and in collecting field data
- Knowledge in UAVs data acquisition and processing
- Programming experience (R, matlab or python)
- Knowledge in using Google engine
- Good communication skills, namely in English
- Track record of peer-reviewed publications
- Preference will be given to applicants with previous experience in rural Africa and willing to do field work in rural areas

### 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 identifying the impact of diverse land use practices on mangrove conservation. The main tasks are: a) Digital image processing for monitoring mangrove and rice production dynamics (mangrove degradation/growth or expansion/abandonment rice fields); c) Identification of the areas with major changes in mangrove and rice fields and acquisition of high resolution images with UAVs; d) Digital processing of UAV images to identify specific areas of mangrove's degradation/regeneration and to validate satellite image classification.

### 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 12 months will be spent at ISA, Portugal with one trip to Guinea-Bissau, where the candidate will live in rural villages with the other project students.

Research tasks will be conducted under the supervision of Senior researcher Ana Isabel Rosa Cabral.

### **Beneficiaries**

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:**

The duration of the scholarship is twelve months, and will start in March 2023.

### **Benefits**

The value of the scholarship will be **930,98€** during the research period in Portugal and **1.692,52€** while abroad, 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.

While in Portugal or Guinea-Bissau the master 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.

### **Scholarship renewal terms and conditions**

The scholarship is set for the period of 12 months without renewal.

### **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, including the preferential criteria (40%), relevance of professional experience (40%), scientific publications (20%).

By decision of the jury, the top three pre-selected candidates may be invited to a remote interview. In this final evaluation phase, the first assessment component will weigh 70% and the interview will weigh 30%.

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

### **Jury Composition of the call**

President – Ana Isabel Rosa Cabral (Senior Researcher at the School of Agriculture of the University of Lisbon)

Effective Member – Fernando Eduardo Lagos Costa (Senior Researcher at the School of Agriculture of the University of Lisbon)

Effective Member – Marina Padrão Temudo (Senior Researcher at the School of Agriculture of the University of Lisbon)

Substitute Member – Luís Sanches Goulão (Assistant Professor at the School of Agriculture of the University of Lisbon)

Substitute Member - -Fernanda Rosa (Senior Researcher at the School of Agriculture of the University of Lisbon)

### **Form of publicity / notification of results**

The results will be communicated to all candidates by email.

### **Application Deadline**

The application period will run from **01 to 14 March 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.
- Proof of enrolment in a course has to be given at the date of the effective contracting;

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 honor, 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 contractualization phase of the scholarship.

The documentation must be sent by email to the e-mail addresses: [anaicabral@isa.ulisboa.pt](mailto:anaicabral@isa.ulisboa.pt), and [filipazacarias@gmail.com](mailto:filipazacarias@gmail.com), indicating the reference **DeSIRA RS Detecção Remota**

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