



**Institute of Earth Science – Évora Pole**

**RESEARCH SCHOLARSHIP FOR MASTER DEGREE – 1 VACANCY**

**Ref. PyroC.pt-1A**

**19 December 2022**

A call for tenders is open for one Scholarship(s) (master) within the scope of the project PyroC.pt: “Advanced wildfire modelling for risk assessment and pyroconvection understanding in Portugal”, PCIF/MPG/0175/2019, financed by national funds through “Fundação para a Ciência e a Tecnologia, I. P.”, under the following conditions:

**Scientific area:** Earth and Environmental Sciences

**Admission requirements:**

- Master's degree in the areas of Earth, Environmental or Agricultural Sciences
- Knowledge of numerical models, namely fire propagation and atmospheric models, as well as of treatment and data analysis will be valued.
- The following competences will be valued: authorship of scientific publications; mathematics and computer skills, with knowledge of at least one programming language.
- Knowledge of English, spoken and written.

As set forth FCT Research Scholarship Regulation No. 950/2019 of December 16, 2019, article 3 and 6, candidates for “BI” (Research Grants) must comply as a rule condition for the award of the scholarship, the effective inclusion in study cycles leading to the attribution of academic degrees or in courses not leading to an academic degree. Courses that do not confer an academic degree correspond to the courses provided for in subparagraph e) of paragraph 3 of article 4 of Decree-Law No. 74/2006 of 24 March and must be developed in a higher education institution in association with at least one R&D unit, including a course plan in one or several research areas of the unit.

**Work plan:**

The researcher will develop work within the scope of tasks 3 and 5 of the PyroC.pt project, called “Coupling SURFEX-Fuel Model” and “Seasonal wildfire risk assessment”, respectively, and which include the following components:

- I. Forest fuel parameterization on the surface model’s platform, SURFEX, used by weather forecast models.
- II. Fire propagation modeling for significant events.

- III. Development of a seasonal risk assessment system for forest fires based on SURFEX and a fire propagation model.

**Applicable legislation and regulations:** The granting of the Research Scholarship will be carried out upon the signing of a contract between the University of Évora and the scholarship holder, as set in the template [https://www.fct.pt/apoios/Minuta\\_Contrato\\_Bolsa.docx](https://www.fct.pt/apoios/Minuta_Contrato_Bolsa.docx), pursuant to the Research Scholarship Statute (Law No. 40/2004 of August 18 and Decree-Law No. 123/2019 of August 28) and in accordance with the legislation and Regulation of Research Grants of the Foundation for Science and Technology, IP in force, regulation nº950/2019 of December 16, 2019: <https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt> and other applicable rules.

**Place of work:** The work will be developed at Évora Pole of the Institute of Earth Sciences, under the scientific guidance of the Doctor Flavio Tiago Couto.

**Duration of the scholarship(s):** The scholarship will have a duration of 12 months, starting on march 1, 2023. The scholarship contract may be renewed up to 12 months.

**Amount of monthly maintenance allowance:** The amount of the scholarship corresponds to €1144,64, according to the table of scholarships awarded directly by FCT, I.P. in Portugal (<http://fct.pt/apoios/bolsas/valores>), payments being made monthly, by check or bank transfer.

**Selection methods:** The selection methods to be used will be the following: curriculum evaluation (weighting 70%), interview (30% weighting).

**Composition of the Selection Jury:**

President – Doctor Flávio Tiago do Couto

1<sup>st</sup> member – Professor Rui Salgado

2<sup>nd</sup> member – Doctor Maria José Monteiro

1<sup>st</sup> substitute – Professor Nuno de Almeida Ribeiro

2<sup>nd</sup> substitute – Msc João Rio

**Advertising/notification of results:** The final results of the evaluation will be publicized, through an ordered list, by final score obtained posted in the webpage of the Institute of Earth Sciences (<http://www.ict.uevora.pt>), being the candidate approved notified through email.

To ensure the right of prior hearing of interested parties, the Final Classification project will be announced by any written means to all interested parties.

After communicating the provisional list of the results of the evaluation, candidates have a period of 10 working days to express their opinion in a preliminary hearing of interested parties.

**Application deadline and submission of applications:** The tender is open from 22 December 2022 to 11 January 2023 and the results of the selection will be published by 17 January 2023.

Applications must be formalized, obligatorily, by sending an application letter with the following documents: Curriculum Vitae, degree certificate, and digital copy of the papers either author or co-author or any other documents considered important.

For the purposes of application, the evidence may be replaced by a declaration of honor signed by the candidate, but the failure to demonstrate that evidence, in the contracting phase, possession of the required degree on the deadline for application or the non-presentation of proof of enrollment in the study cycle or non-degree course, for scholarships with this component, imply the cancellation of the candidate's application.

Academic degrees obtained in foreign countries require registration by a Portuguese Institution in accordance with Decree-Law no. 66/2018, of August 16 and Ordinance No. 33/2019, of January 25th.

The presentation of the certificate is mandatory for the signing of the contract. More information can be obtained at: <https://www.dges.gov.pt/pt/pagina/recognition?plid=374>

Applications must be sent by email to:

Dr. Flavio Tiago Couto  
Earth Sciences Institute, University of Évora  
E-mail: [fcouto@uevora.pt](mailto:fcouto@uevora.pt)

