



## **HERCULES Laboratory - CULTURAL HERITAGE, STUDIES AND SAVAGES**

### **Scholarship for Master - 1 vacancy**

22 of September of 2023

A call for tenders is open for one Scholarship Research for a Master Degree, within the scope of the project “*MOSTMEG* - Predictive models for strategic metal rich, granite-related ore systems based on mineral and geochemical fingerprints and footprints, with the reference ERA-MIN/0004/2019), financed by European funds through FCT/MCTES, under the following conditions:

**Scientific area:** Geology.

#### **Admission requirements:**

- Hold a Graduation and Master degree in the areas of Geology;
- Academic and professional training in the area of processing data on mineral chemistry and associated whole rock in the context of magmatic processes and formation of mineral deposits.
- Minimum of 1 publication in journals indexed in SCOPUS in the last 2 years.

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 Master fellow should focus on the characterization of potentially useful mineral phases in mineralizations associated with aplite-pegmatitic systems.

It is assumed the acquisition and processing of data from the analysis techniques, namely:

1. Identification of mineral phases and possible inclusions, by micro-XRD;
2. Determination of heterogeneities and mineral chemistry of major elements by SEM-EDS, EPMA and cathodoluminescence;
3. Determination of chemical composition in trace elements by LA-ICP-MS/MS

The Master fellow must contribute to the discussion of data and project success, with the whole team. In particular, in the quantification of trace elements that can help to identify genetic processes and define new tools for prospecting critical raw material deposits, associated with paragenetic sequences in swarms of (aplite-) pegmatites.

**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 [former.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://files.dre.pt/2s/2019/12/241000000/0009100105.pdf> and other applicable rules.

**Place of work:** The work will be carried out at the Laboratory HERCULES of the University of Évora, under the scientific supervision of Professor José Mirão, Professor Patrícia Moita and Professor Pedro Barrulas.

**Duration of the scholarship(s):** The scholarship will last for 6 months starting in November 2023. The scholarship contract can be renewed until the end of the project.

**Amount of monthly maintenance allowance:** The amount of the scholarship corresponds to the Mestre scholarship of 1 199,64€ according to the table of values of the scholarships awarded directly by FCT, I.P. in the Country ([https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM\\_2023.pdf](https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM_2023.pdf)), with payments made monthly, by check or bank transfer.

**Selection methods:** The selection will be made through curriculum evaluation and interview, if requested by the jury, based on the following percentage weighting:

- a) Experience as described in “Admission requirements” (maximum 60 points)
- b) Adequacy of the scientific and specialization area (maximum 30 points)
- c) Scientific production (scientific articles, oral or panel communications

presented at national and international conferences) (maximum 10 points)

The jury may call candidates for an interview, if deemed necessary or for tie-breaking purposes.

In this case, the percentage weighting will be as follows:

- a) Curriculum evaluation: 70 points
- b) Interview: 30 points

**Composition of the Selection Jury:**

President: Professor Patrícia Moita

1º Member: Doctor Pedro Barrulas

2º Member: Professor José Mirão

1º Alternate: Doctor Catarina Miguel

2º Alternate: Professor Teresa Ferreira

**Advertising/notification of results:** The final results of the evaluation will be publicized, through an ordered list by final grade obtained posted in a visible and public place Laboratory HERCULES secretariat being the candidate (a) 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 4 to 19 of October of 2023 and the results of the selection will be published by 25 of October of 2023.

Applications must be formalized, obligatorily, by sending an application letter with the following documents: Curriculum Vitae, certificate of qualifications, and other supporting documents considered relevant).

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:

Professor Patrícia Moita  
Department of Geosciences, University of Évora  
HERCULES Laboratory  
e-mail: [pmoita@uevora.pt](mailto:pmoita@uevora.pt)

