

CALL FOR RESEARCH FELLOWSHIP

University of Coimbra opens a call for one research fellowship, in the framework of the iProMO project “Sistemas Inteligente para Controlo de Processos de Moagem” (reference: CENTRO-01-0247-FEDER-069730, by the European Regional Development Fund, through Centro Regional Operational Program 2014/2020 (Centro2020), of Portugal 2020, in the following conditions:

Scientific area: Electrical and Computer Engineering, Computer Engineering, Physical Engineering, Physics, Mathematics, Biomedical Engineering, or similar .

Skills/Qualifications/Admission requirements: Students enrolled in a MSc or in a integrated MsC in Electrotechnical and Computer Engineering, Informatics Engineering, Engineering Physics, Physics, Mathematics, Biomedical Engineering or related areas, or Bachelor's degree in Electrotechnical and Computer Engineering, Informatics Engineering, Engineering Physics, Physics, Mathematics, Biomedical Engineering or related areas enrolled in a non-degree course..

Although the recipients must be enrolled in a cycle of studies leading to the attribution of an academic degree or non-degree course, at the time of application it is not necessary for the candidate to have made such an enrollment, and proof of enrollment must be presented until the fellowship is contractualized. Candidates are only required to meet the requirements to enroll in the training offer. If there are candidates already enrolled (including attending a course), they compete on an equal footing with those who are not enrolled.

Work plan/ Objectives: The research and development activities will be carried out in the area of artificial intelligence (Machine Learning), focusing on the development of an intelligent sensor for rotary mills, intelligent maintenance of rotary mills and detection of anomalies in sensors, in order to increase the efficiency of the milling process and minimize downtime due to breakdowns.

To this end, the work plan consists in developing:

- (i) an intelligent sensor using artificial intelligence (Machine Learning) techniques.
- (ii) a system for intelligent maintenance of rotary mills and detection of anomalies in sensors, using artificial intelligence techniques (Machine Learning) .

Regime: The attribution of the fellowship does not generate or entitle a relation of a legal-labour nature, and the fellowship is undertaken in an exclusive dedication regime. The fellowship holder is awarded the Fellowship Statute of the UC, in its current wording, according to the Research Fellowship Holder Statute , and according to the Regulation for Research Fellowships of the Fundação para a Ciência e a Tecnologia, I.P., both in their current wording.

Location: DEI at the University of Coimbra.

Duration: 6 months .

Renewal: Possibility .

Scientific orientation: Jerôme Amaro Pires Mendes .

Financial conditions: The amount of the fellowship is € 875.98 corresponding to the monthly compensation stipulated in the FCT table (<https://www.fct.pt/apoios/bolsas/valores.phtml.en>), plus social security (Seguro Social Voluntário, first level contributions) and personal accidents insurance. The payment will be made by bank transfer. This amount will not be increased during the entire period of the fellowship duration.

Selection methods: Curriculum Evaluation (100%) .

Selection criteria: Curriculum Evaluation: Absolute Merit of the Curriculum Vitae (40%); Specific knowledge (30%); Adequacy of the candidate's profile to the work plan to be developed (30%);.

Jury responsible for selection: Jerôme Amaro Pires Mendes (President); João Luís Ruivo Carvalho Paulo; João Luís Ruivo Carvalho Paulo .

Formalization of application:

Letter of interest;

Curriculum vitae;

Certificate of Qualifications;

Proof of enrollment in a Master's Degree or non-degree course (optional);

Declaration mentioned below, the fulfillment of which is carried out in a specific form on the apply.uc.pt platform.

Declaration on the honor of the candidate(s) with the indication of the fellowship(s) of the typology to which the contest was held and the respective duration(s).

Applicants with academic degrees obtained abroad will be required to present a Certificate of Recognition in accordance with applicable law. This document is mandatory only in the contractualization phase.

Applications submission: Applications must be submitted through the Apply UC platform <https://apply.uc.pt/IT137-22-200> .

Submission of applications: Between 27/10/2022 and 02/12/2022.

Submission deadline date: 02/12/2022.

Additional information: The evaluation results will be announced within 90 working days after the end of the applications submission deadline, by notifying the applicants via email. After the announcement of the results, candidates are considered automatically notified to, if they wish to do so, comment on the results on a preliminary hearing period within 10 days after that date. After this, the selected candidates will have to declare in writing their acceptance. Unless a justification worthy of consideration is presented, if the declaration is not submitted within the referred period, it is considered that the candidate waives the fellowship. In case of resignation or withdrawal of the selected candidate, the next candidate with the highest evaluation score will be notified immediately.

Once the selection process is completed, the fellowship contract will be drawn up in accordance with the draft contract provided by the FCT.

After the contracted period, the fellowship holder and supervisor must prepare the final report in accordance with the respective assessment criteria that were established.

Pursuant to subparagraph h) of Article 9 of the Portuguese Constitution, the University of Coimbra, as employer, actively promotes a policy of equal opportunities between men and women in access to employment and professional development, and acts to prevent each and every kind of discrimination.

Therefore, no one can be privileged, benefited, harmed or deprived of any right or immune from any duty on account of, in particular, ancestry, age, sexual orientation, gender, marital status, family, economic situation, education, origin or social condition, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic or racial origin, territory of origin, language, religion, political or ideological beliefs and trade union membership.

Selection reserve list: N.A.