

The Polytechnic of Leiria - School of Technology and Management is now opening applications for **(one)** scientific research fellowship (BI) for the project S4Plast – Sustainable Plastics Advanced Solutions (Mobilizing Project no. 46089), co-funded by COMPETE 2020 - Programa Operacional Competitividade e Internacionalização, in the scope of the PORTUGAL 2020 programme, through FEDER – European Regional Development Fund, in the following terms:

- . **SCIENTIFIC AREA:** Electrical and Computer Engineering, and related fields.
- . **RECIPIENTS:** [registration is not mandatory during the application phase]. Students of Electrical Engineering Masters, or related fields.
- . **PROFILE:** Experience in developing hardware/software for embedded and/or industrial systems. Good knowledge of computer science tools for developing software and integrating hardware for industrial systems, sensors and actuators. High autonomy, strong motivation to work in a team, will to learn, create new knowledge, and evolve with the project.
- . **DURATION:** 12 months, eventually renewable until the end of the project or up to the maximum duration for this research fellowship type. The fellowship activities are expected to start in November 2020.
- . **WORK PLAN:** Develop and integrate shop floor sensing, acquisition, and data processing components, together with dynamic simulation of a new agile production system for the moulds industry. Goals: Applied research combined with software and hardware development and integration to implement advanced production systems for the moulds industry, based on Industry 4.0 concepts, particularly at the shop floor level. Contribute and develop systems to allow the integration of equipment at the shop floor level in agile production systems. Develop and implement sensing techniques for new production systems, guaranteeing quality control for all product, be it through the use of classical sensors, or more advanced techniques, such as computer vision, while contributing for the dynamic simulation of these systems.
- . **WORKPLACE AND SCIENTIFIC SUPERVISION:** The work will be developed at the School of Management and Technology of the Polytechnic of Leiria, under the supervision of Professor Hugo Filipe Costelha de Castro.
- . **GRANT FINANTIAL COMPONENTS:** Monthly maintenance stipend of € 798,00, according to the FCT Regulation for Studentships and Fellowships (www.fct.pt/apoios/bolsas/valores) plus, if applicable, the monthly Voluntary Social Insurance, according to the conditions defined in the Research Fellowship Holder Statute, as well as the Personal Accident Insurance, during the research fellowship period.
- . **PAYMENT:** The maintenance stipend will be monthly processed, through bank transfer, to the account identified by the research fellow.
- . **ACTIVITY SCHEME:** Exclusivity, according to the applicable legislation.
- . **EVALUATION PANEL:** The jury responsible for the applications evaluation will be constituted by PhD Professors: Hugo Filipe Costelha de Castro (president), Carlos Fernando Couceiro de Sousa Neves, and Luís Manuel Conde Bento (effective members); Paulo Jorge Simões Coelho and Alexandra Cristina Ferros dos Santos Nascimento Baptista (substitute members).
- . **APPLICATION DEADLINE:** 27th of October to 9th of November of 2020.
- . **SELECTION METHOD AND EVALUATION CRITERIA:** Evaluation will be based on the curricular analysis and eventual interview, and will focus on the candidate's merit according to the following: a) Academic qualifications (HA): final undergraduate degree grade; b) Professional/academic experience (EP); c) Interview (E); with the final grade (NF) = $[HA*0.35 + EP*0.3 + E*0.35]$. If the jury decides, by justified deliberation, to dismiss the interview: $NF = [HA*0.6 + EP*0.4]$.

Observation: If the candidate(s) with foreign qualifications(s) does not present, during the application phase, the recognition of the degree or foreign diploma and the classification conversion to the Portuguese scale, the jury defines the conversion only for the application purposes based on the rules of the legal regime applicable to the recognition of foreign degrees and diplomas or, when not possible, applies the minimal classification of 10 points.

Note that foreign academic degrees need to be registered by a Portuguese institution, in accordance with [Decree-law no. 66/2018](http://www.dges.gov.pt/pt/pagina/reconhecimento?plid=374), dated August 16th, and [Ordinance no. 33/2019](http://www.dges.gov.pt/pt/pagina/reconhecimento?plid=374), dated January 25th. The presentation of the certificate is mandatory for signing the contract.

More information can be obtained at: <https://www.dges.gov.pt/pt/pagina/reconhecimento?plid=374>

. **ELIGIBILITY OF CANDIDATES:** Without prejudice to the applicable rules to each type of research fellowship, the following candidates are eligible:

- a) National citizens or citizens of other member states of the European Union;
- b) Third-party states citizens;
- c) Stateless people;
- d) Beneficiaries of political refugee status.

. **SUBMISSION OF APPLICATIONS:** Applications must be addressed to the president of the jury and sent by e-mail to estg@ipleiria.pt, presenting the application form available at www.ipleiria.pt with the following documentation attached: _____

- Document(s) proving the candidate holds the academic degree(s) and/or required application diploma(s), preferably with the final average, and each curricular units' classification. Candidates with foreign qualifications must prove their academic degree and foreign diploma in the terms of Decree-law no. 66/2018, dated August 16th. These documents can be dismissed during the application phase, by submitting a declaration of honour available in the application form, which can only attest to facts that occurred prior to the application, with the verification of this condition occurring only in the contract signing phase;

- (optional during the application phase) Document proving the enrolment and registration in the study cycle or non-awarding degree course, as stated in the application announcement;

- Updated candidate Curriculum Vitae;

- Document(s) supporting other evaluation parameter(s) indicated in the announcement;

- Other certifications and/or other documents considered relevant by the candidate.

. **RESULTS | DISCLOSURE AND COMPLAINTS:** The jury will send the provisional results of the evaluation (presented in the form of the minutes resulting from the evaluation process) to the candidates, by e-mail, within 90 working days after the application deadline. After this disclosure, candidates have 10 working days to pronounce, if they wish, in the appropriate form available in the institutional webpage, under the terms of the administrative procedure code (CPA). The final decision will be taken within a maximum period of 60 working days after the conclusion of the previous hearing of the interested parties, of which a complaint can be filed within 15 working days, after notification, to the highest executive body of the Polytechnic of Leiria. Under the research fellowship award procedure, if the duly approved final ranking list contains a number of approved candidates that is higher than the number of research fellowships to be filled, an internal recruitment reserve is always created, which can be used when there is need for occupation due to withdrawal of the fellowship holder, under the terms of the CPA, to be used during the eligibility of the project.

. **APPLICABLE LEGISLATION AND REGULATION:** Research Fellowship Holder Statute, approved by Law no. 40/2004, dated August 18th, in its current version; Regulation no. 950/2019 [FCT Regulation for Studentships and Fellowships, I.P.]

(<https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2019.pdf>)

Leiria, 26th of October of 2020.

President of the Polytechnic of Leiria

Rui Filipe Pinto Pedrosa