

CALL FOR APPLICATIONS

Job:

Job reference:	AE2019-0092 (INESC TEC LA - CESE) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Position:	Scientific Initiation Grants (BIC)
City:	Porto
Research field:	Main: ENGINEERING Sub: Industrial engineering

Job summary:

INESC TEC is accepting applications to award 1 Scientific Initiation Grant .

Project:	INESC TEC - UID/EEA/50014/2019
Scientific Advisor:	João Pedro Basto
Duration Grant:	from 2019-05-20 to 2019-08-19 (3) eventually renewable.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Simulation and optimization modelling in the area of industrial production lines

Project overview: The work is part of CESE projects where integrated optimization-simulation models are being created for the digital representation of a real case study of a production line. With these models, it is intended to increase the ability of decision agents to have information regarding the performance of the line for a series of possible future scenarios

Objectives: The grantee must learn concepts of line balancing problems as well as strategies to solve them (heuristics, metaheuristics, mathematical models). He should also learn how to use CPLEX and SIMIO software. With this knowledge, he should create an optimization model for the actual production line balancing and a simulation model of the same line.

Academic Qualifications:	Students enrolled for the 1st time in 1st cycle of higher education or in a master's degree.
Minimum Profile required:	Previous knowledge on programming, mathematical modeling and simulation modeling.
Preference factors:	Previous knowledge on CPLEX and SIMIO.
Monthly Grant:	€388,81 according to the Stipends values of the grants awarded directly by the FCT, paid by bank transfer. The grant holder may also benefit from additional incomes in the sequence of a quarterly evaluation process (Clauses 12 and 13 of INESC TEC Grants Regulation and Annex II), up to a maximum of 50% of the monthly grant.

Project duration:	-
Funding Entity:	Funded by National Funds through FCT - Portuguese Foundation for Science and Technology, I.P., in the scope of the project UID/EEA/50014/2019
The grant contract shall be submitted to the legislation concerning the Research Grant Holder Statute , approved by Law n 40/2004, dated 18 August, amended and republished by Decree-Law No. 202/2012 of 27 August and amended by Decree-Law No. 233/2012 of 29 October and by Law No. 12/2013, of January 29, and Decree-Law No. 89/2013 of July 9 as well as by INESC TEC Grant Regulation , approved by FCT - Fundação para a Ciência e a Tecnologia (Science and Technology Foundation) in 12 January 2011 and FCT current Grant Regulation. Additional information about INESC TEC Grants Regulation and relating annexes may be found at www.inesctec.pt/grants	

Selection Criteria:	Curriculum evaluation based on the criteria referred to in Clause 7 INESC TEC Grants Regulation and will include individual interviews in the final stage of the selection process, with its valuation: 70% curriculum evaluation (40% CV, 20% scientific domains and 10% Expertise) and 30% interview. Only those candidates who obtain at least 70% in the curricular evaluation (CV + Scientific Domain + Experience) will be called for the interview.
Selection Jury:	President of the Jury: Prof. Américo Azevedo; Member: Prof. António Lucas Soares; Member: Prof. José Soeiro Ferreira;
Notification of results:	The results of the selection process will be disseminated to interested parties by mail, as referred to in Clause 8 of INESC TEC Grants Regulation .
Application period:	From 2019-04-17 to 2019-05-03
Application submission:	Fill in the electronic form in the section Work with Us at www.inesctec.pt , attaching the Curriculum Vitae, copy of school enrollment and other supporting documents relevant to the final assessment.