

CALL FOR APPLICATIONS

Job:

Job reference:	AE2019-0157 (LASTMILE - CEGI)
	INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Position:	Research Grants (BI)
City:	Porto
Research field:	Main: ENGINEERING,COMPUTER SCIENCE,MATHEMATICS
	Sub: Modelling tools

Job summary:

INESC TEC is accepting applications to award 1 Research Grant for MSC .

Project:	Rethinking last-mile delivery through crowdsourcing
Scientific Advisor:	João Pedro Pedroso
Duration Grant:	from 2019-09-01 to 2020-02-29 (6) - Eventually renewable until the project conclusion or budget.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Modeling, simulation and optimization

Project overview: This project deals with the concept of inviting in-store customers for delivering parcels ordered by on-line customers; the remaining orders should be delivered by a professional fleet. The aim is to develop models and tools for solving this problem, which turns out to be a very challenging stochastic combinatorial optimization problem. This approach will reduce environmental impacts and urban congestion at low marginal cost. More information in: <http://www.dcc.fc.up.pt/~jpp/Announcements/LastMile.html>

Objectives: Development of models tackling this problem. These will involve algorithms in the interface between machine learning/artificial intelligence and combinatorial optimization.

Academic Qualifications:	MSc in computer science, operational research or related areas.
Minimum Profile required:	Good programming skills.
Preference factors:	1. Experience with simulation and optimization problems; 2. Implementation of software for optimization and/or machine learning.
Monthly Grant:	€989,70 (MSC) 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:	2018-07-26 a 2021-07-25
Funding Entity:	Funded by FEDER through the Operational Programme for Competitiveness and Internationalisation - COMPETE 2020 Programme, and by National Funds through the FCT - Portuguese Foundation for Science and Technology, I.P., within project POCI-01-0145-FEDER-028611 .
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: 85% curriculum evaluation (50% CV, 20% scientific domains and 15% Expertise) and 15% 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. João Pedro Pedroso; Member: Prof. Ana Viana; Member: Prof. Xenia Klimentova;
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 2019-07-15 to 2019-07-29
Application submission:	Fill in the electronic form in the section Work with Us at www.inesctec.pt , attaching the Curriculum Vitae, certificate of qualifications and other supporting documents relevant to the final assessment.