

## CALL FOR APPLICATIONS

### Job:

<b>Job reference:</b>	AE2018-0343 (DM4Manufacturing-1 - CESE) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
<b>Position:</b>	Research Grants (BI)
<b>City:</b>	Porto
<b>Research field:</b>	Main: ENGINEERING Sub: Industrial engineering

### Job summary:

<b>INESC TEC is accepting applications to award 1 Research Grant for MSC .</b>	
<b>Project:</b>	DM4Manufacturing: Aligning Manufacturing Decision Making with Advanced Manufacturing Technologies
<b>Scientific Advisor:</b>	Alexandra Sofia Marques
<b>Duration Grant:</b>	from 2018-12-01 to 2019-10-31 (11) eventually renewable.
<b>Location:</b>	INESC TEC, Porto, Portugal

### Job description:

<b>Work Area:</b>	Development of advanced real-time planning and decision support techniques
<b>Project overview:</b>	The main objective of this project is to develop optimization methods to integrate and coordinate, in real-time, the planning, scheduling and control of decision making, framed within the concepts and technologies of Industry 4.0.
<b>Objectives:</b>	Develop simulation-optimization methods, application to case studies in Production Planning or logistic Planning.

<b>Academic Qualifications:</b>	Master in Industrial Engineering, Computer Engineering, OR, Forestry Eng. or similar.
<b>Minimum Profile required:</b>	Knowledge of OR in particular Mixed Integer Programming; simulation of discrete events; programming language; Organization ability, easy to teamwork; Written and spoken english.
<b>Preference factors:</b>	Experience in the development of models of: optimization in CPLEX, Gurobi or other solvers; simulation in SIMIO, Anylogic or other; Decision support systems; Interest in PhD in the context of the project
<b>Monthly Grant:</b>	€980,00 (MSC) according to the Stipends values of the grants awarded directly by the FCT, paid by bank transfer. The grant holder can receive additional payments by participating in complementary contracts or projects that contribute to the work plan (Clauses 12 and 13 of INESC TEC Grants Regulation and Annex II), in accordance with paragraph 4 of article 5 of Research Grant Holder Statute, approved by Law n 40/2004, dated 18 August, up to a maximum of 50% of the monthly grant.

<b>Project duration:</b>	2016-11-01 a 2019-10-31
<b>Funding Entity:</b>	ERDF - European Regional Development Fund through the Operational Programme for Competitiveness and Internationalisation - COMPETE 2020 Programme, and by National Funds (PIDDAC) through the FCT/MCTES within project POCI-01-0145-FEDER-016418 .
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 <a href="#">INESC TEC Grants Regulation</a> and relating annexes may be found at <a href="http://www.inesctec.pt/grants">www.inesctec.pt/grants</a>	

<b>Selection Criteria:</b>	Curriculum evaluation based on the criteria referred to in Clause 7 <a href="#">INESC TEC Grants Regulation</a> and will include individual interviews in the final stage of the selection process, with its valuation: 70% curriculum evaluation (30% CV, 25% scientific domains and 15% 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.
<b>Selection Jury:</b>	President of the Jury: Prof. Alexandra Sofia Marques; Member: Prof. Luís Guimarães; Member: Prof. Pedro Amorim;
<b>Notification of results:</b>	The results of the selection process will be disseminated to interested parties by mail, as referred to in Clause 8 of <a href="#">INESC TEC Grants Regulation</a> .
<b>Application period:</b>	From 2018-11-14 to 2018-11-27
<b>Application submission:</b>	Fill in the electronic form in the section <a href="#">Work with Us</a> at <a href="http://www.inesctec.pt">www.inesctec.pt</a> , attaching the Curriculum Vitae, certificate of qualifications and other supporting documents relevant to the final assessment.