

## CALL FOR APPLICATIONS

### Job:

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| <b>Job reference:</b>  | AE2017-0062 (SmartFarming-1 - LIAAD)<br>INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência |
| <b>Position:</b>       | Post-Doc Grants (BPD)  |
| <b>City:</b>           | Porto  |
| <b>Research field:</b> | Main: COMPUTER SCIENCE, MATHEMATICS, ENGINEERING<br>Sub: Programming, Informatics, Computer engineering                      |

### Job summary:

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| <b>INESC TEC is accepting applications to award 1 Postdoctoral Grant</b> |  |
| <b>Project:</b>  |  |
| <b>Scientific Advisor:</b>   | João Pedro Moreira   |
| <b>Duration Grant:</b>   | from 2017-04-01 to 2018-03-31 (12) . The grant may be renewed for additional periods up to the maximum duration of the project or the duration of the grant for which the candidate was selected. It can also be renewed due to another project provided that it is entirely or partly related to the work area in the call and that it contributes to the ongoing training. |
| <b>Location:</b>   | INESC TEC, Porto, Portugal   |

### Job description:

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| <b>Work Area:</b>        | Intelligent systems and precision agriculture  |
| <b>Project overview:</b> | The grantee must study, apply and develop a set of evolutionary algorithms and techniques that can process data collected (e.g., by sensors) in a farm. In particular, develop adaptive models to model irrigation needs. The work done by the grantee is included in the activities of the project Smart Farming - advanced tool for operationalization of precision agriculture. |
| <b>Objectives:</b>       | Study and develop techniques and evolutionary algorithms for predicting irrigation needs of a Portuguese farm. Specify and develop a prototype to forecast the irrigation needs in a Portuguese farm. Publish two articles in conferences and two articles in journal of high impact factor.   |

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| <b>Academic Qualifications:</b>  | PhD in Computer Science, PhD in Applied Mathematics, PhD in Informatics Engineering or similar.  |
| <b>Minimum Profile required:</b> | Read and write in English.<br>Programming skills in at least one of the following languages: Java, C ++, Python, R and Matlab.<br>Courses in the area of Data Mining and Machine Learning.   |
| <b>Preference factors:</b>       | Experience in the processing of Data Streams, knowledge representation and expert systems.   |
| <b>Monthly Grant:</b>            | €1495,00 according to the Stipends values of the grants awarded directly by the FCT, paid by bank transfer.<br>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. |

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| <b>Project duration:</b>  | 2016-10-01 a 2018-09-30   |
| <b>Funding Entity:</b>  | <b>ANI with the financial support of the Fundo Europeu de Desenvolvimento Regional (FEDER) and by the Programa Operacional Competitividade e Internacionalização.</b> |
| 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.<br>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> |   |

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| <b>Selection Criteria:</b>      | Curriculum evaluation based on the criteria referred to in Clause 7º <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. |
| <b>Selection Jury:</b>          | President of the Jury: Prof. João Mendes Moreira;<br>Permanent Member: Prof. Carlos Ferreira;<br>Substitute Member: Prof. Rita Paula Ribeiro;  |
| <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 2017-03-15 to 2017-03-28  |
| <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>  |