# CALL FOR APPLICATIONS

## Job:

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| **Job reference:** | AE2017-0170 (NanoStima-RL5-2 - LIAAD) |
| | INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência |
| **Position:** | Post-Doc Grants (BPD) |
| **City:** | Porto |
| **Research field:** | Main: COMPUTER SCIENCE,MATHEMATICS,ENGINEERING |
| | Sub: Programming,Computer Systems,Database management,Informatics,Computer engineering |

## Job summary:

**INESC TEC is accepting applications to award 1 Postdoctoral Grant**

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| **Project:** | NanoSTIMA ? Macro-to-Nano Human Sensing: Towards Integrated Multimodal Health Monitoring and Analytics (NORTE-01-0145-FEDER-000016) |
| **Scientific Advisor:** | Carlos Ferreira |
| **Duration Grant:** | from 2017-07-24 to 2018-06-30 (11) . 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. |
| **Location:** | INESC TEC, Porto, Portugal |

## Job description:

**Work Area:** Analysis of stream data in real time to predict clinical events

**Project overview:** The grantee shall study and develop a set of techniques and evolutionary algorithms to process data streams in real time and predict the occurrence of clinical events. In particular, we intend to develop new methods for stream summarization and new probabilistic algorithms to forecast events. The developed work is targeted to gather knowledge and skills with the potential to develop an intelligent alarm system that can be used in an Intensive Care Unit (ICU) of a large Portuguese hospital.

**Objectives:** Study and develop a set of techniques and evolutionary algorithms that can process data streams in real time and predict the occurrence of clinical events.Gather knowledge and skills with the potential to develop an intelligent alarm system that can be used in an Intensive Care Unit (ICU) of a large Portuguese hospital.

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| **Academic Qualifications:** | PhD in Computer Science, PhD in Applied Mathematics, PhD in Computer Science or similar. |
| **Minimum Profile required:** | Read and write in English. Programing skills in at least one of the following languages: Java, C ++, Python, R and Matlab. Courses in the area of Data Mining and Machine Learning |
| **Preference factors:** | Candidate's curriculum should include scientific publications in the area of Data Streams and Tensor Analysis. |
| **Monthly Grant:** | €1495,00 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. |

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| **Project duration:** | 2015-07-01 a 2018-06-30 |
| **Funding Entity:** | CCDRN, financiado pelo Fundo Europeu de Desenvolvimento Regional (FEDER) através do Programa Operacional Regional do Norte (NORTE 2020) |

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 7º INESC TEC Grants Regulation and will include individual interviews in the final stage of the selection process, with its valuation: 90% curriculum evaluation (40% CV, 30% scientific domains and 20% Expertise) and 10% interview.

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| **Selection Jury:** | President of the Jury: Prof. Carlos Ferreira; |
| | Permanent Member: Prof. João Gama; |
| | Substitute Member: Prof. Rui Camacho; |
| **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 2017-06-28 to 2017-07-14 |
| **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. |