

CALL FOR APPLICATIONS

Job:

Job reference:	AE2016-0372 (CONTEXTWA - CSIG) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Position:	Research Grants (BI)
City:	Porto
Research field:	Main: COMPUTER SCIENCE Sub: Informatics

Job summary:

INESC TEC is accepting applications to award 1 Research Grant for MSC.	
Project:	Middleware e Técnicas de Inferência de Contextos a partir de fluxos de Dados para Desenvolvimento de Serviços Conscientes do Contexto em Dispositivos Móveis
Scientific Advisor:	João Paiva Cardoso
Duration Grant:	from 2017-01-25 to 2017-07-24 (6) - Eventually renewable until the project conclusion or budget.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area:	Compiler techniques.
Project overview:	The work to be carried out consists on researching and developing compiler optimization techniques taking into account code transformations and runtime adaptivity for classifiers of user's activities using smartphones. The main objectives of the techniques to be researched are the reduction of energy consumption and execution time, maintaining acceptable accuracy when classifying user's activities.
Objectives:	- Develop software code for runtime adaptivity considering parameters of the algorithms, switching between algorithms, and compiler optimizations taking into account energy consumption and execution time;- Propose efficient techniques for code refactorization and adaptivity at runtime;- Develop LARA strategies to prepare software code in the context of smartphones and sensors;- Test and evaluate the techniques with different smartphones.

Academic Qualifications:	MSc in Informatics Engineering or related fields.
Minimum Profile required:	Minimum of 14 values in the master's degree.
Preference factors:	Be doing a PhD related to software optimizations targeting embedded systems; Knowledge of: runtime adaptivity techniques, AOP, of development of DSLs and on Java and LARA programming.
Monthly Grant:	€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 nº 40/2004, dated 18 August, up to a maximum of 50% of the monthly grant.

Project duration:	2016-06-01 a 2019-05-31
Funding Entity:	FCT (PTDC/EEISCR/6945/2014 (POCI-01-0145-FEDER-016883))
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: 70% curriculum evaluation (30% CV, 20% scientific domains and 20% Expertise) and 30% interview.
Selection Jury:	President of the Jury: Prof. João Paiva Cardoso; Permanent Member: Prof. João Pedro Monteiro; Substitute Member: Prof. João Canas 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 2017-01-04 to 2017-01-18
Application submission:	Fill in the electronic form in the section Work with Us at www.inesctec.pt

