

## 1 Post Doctoral Research Grant Announcement (M/F)

Call open for applications for a Post Doctoral research grant within the framework of project “Safe Cities - Innovation for Building Urban Safety”, with the reference POCI-01-0247-FEDER-041435, co-financed by the European Regional Development Fund (ERDF), through the Operational Programme for Competitiveness and Internationalization (COMPETE 2020), under the PORTUGAL 2020 Partnership Agreement, under the following conditions:

**Scientific Area:** Computing Systems Architecture, Distributed and Mobile Computing

**Admission requirements:** Doctor degree in Informatics and Computing Engineering, Computer Science, or Electrical Engineering (Computers)

If the degree has been awarded by a foreign higher education institution, it must comply with the provisions of the Decree-Law no. 66/2018, of august 16th, and any formalities established there must be fulfilled until the time of signing the contract.

**Activity Outline:** Acquiring the state-of-the-art and technologies determination for building evacuation, involving in-door localization in mobile devices, environmental sensors in building interiors including smoke and gases, IoT systems for detector networks and mobile devices communication, support platforms and services, multiplatform app development for mobile devices, wireless ad-hoc networks, and efficient algorithms for evacuation route determination. Coordination of software development and test applied to the described scenarios. Cooperation in the planning and installation of a project pilot. Participation in the project scientific dissemination. The described tasks require advanced knowledge of software development and testing.

(Profile 184 – Tasks: SP4\_A1\_T1.1    SP4\_A1\_T1.2    SP4\_A1\_T1.3    SP4\_A1\_T1.4    SP4\_A2\_T2.1  
                 SP4\_A2\_T2.2    SP4\_A2\_T2.4    SP4\_A2\_T2.5    SP4\_A2\_T2.6    SP4\_A2\_T2.9    SP4\_A3\_T3.1  
                 SP4\_A3\_T3.2    SP4\_A3\_T3.3    SP4\_A4\_T4.1    SP4\_A4\_T4.2    SP4\_A4\_T4.3    SP4\_A5\_T5.1  
                 SP4\_A5\_T5.2    SP4\_A6\_T6.1    SP4\_A6\_T6.2    SP8\_A2\_T2.1.

The tasks can be adjusted depending on its feasibility in the project. All changes implying the grant holder’s work in other tasks will be submitted to prior approval of the funding authority – AICEP.)

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**Legislation and regulations:** Law Nº. 40/2004, of 18th August, in its current wording (Statutes of Scientific Research Fellow); Regulation of Research Grants of Fundação para a Ciência e a Tecnologia, in force (<https://www.fct.pt/apoios/bolsas/regulamentos.phtml.pt>) and Grant regulation of University of Porto.

**Workplace:** The work will be developed at the Department of Informatics Engineering of the Faculty of Engineering of the University of Porto (FEUP), under the scientific supervision of Professor Miguel Pimenta Monteiro.

**Grant duration:** Initial duration of 12 months, with starting date predicted to December 2019, on exclusive basis regime, eventually renewable up to the end of the project.

**Stipend:** The grant stipend amounts to 1509,80€ according to the table of values of the grants awarded directly by FCT, I.P. in the Country (<https://www.fct.pt/apoios/bolsas/valores> ).

The payment will be made by bank transfer.

**Selection procedure:** The selection procedure will consider a curricular analysis and an interview.

- The curricular analysis has the following factors and punctuations.
  - (a) Doctor degree in Informatics and Computing Engineering - 5 points, Doctor degree in the other related area – 2 points.
  - (b) Experience in research including Distributed Systems and Architectures up to 1 year – 2 points, more than 1 year – 5 points.
  - (c) 1 publication relevant for the above topic – 2 points, more than 1 publication – 5 points.
- Interview: The 4 best evaluated candidates in the curricular analysis will be selected for an interview (evaluated with a maximum of 5 points).

**Selection committee:**

President of the selection committee — Professor António Miguel Pontes Pimenta Monteiro

Effective member — Professor Jorge Alves da Silva

Effective member — Professor Jorge Manuel Gomes Barbosa

Supplementary member — Professor Ademar Manuel Teixeira de Aguiar

Supplementary member — Professor Ricardo Santos Morla

**Advertisement of final decision:** The final results of the evaluation will be released to the candidates by post. Complete adress in the application is required.

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**Deadline for applications and form of presentation of the applications:**

The call is open from **21-11-2019** a **20-12-2019**

Applications must be formalized by email to [apm@fe.up.pt](mailto:apm@fe.up.pt) and to [recursoshumanos@fe.up.pt](mailto:recursoshumanos@fe.up.pt), it should clearly state the reference **FEUP- SafeCities\_Perfil184**, and must include Motivation letter, Curriculum Vitae, Certificates evidencing academic degree and other documents considered relevant by the applicant.

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