

## 1 Research Grant

Call open for applications for a 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:** Air quality monitoring

**Admission requirements:**

Candidates who cumulatively meet the following requirements may apply for this grant:

- Be a student enrolled in a PhD in the field of Engineering, requirement to be proved at the time of signing the contract.

and

- Hold the degree of Master in Electrical Engineering, Mechanical Engineering, Bioengineering, or related area

*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:**

1. Development of PCB boards and microprocessor programming.
  2. Test various air quality sensors and validate the solutions developed within the scope of this project.
  3. Create a Beacon system to inform the customer of the location of the reading point.
- (Profile 130 – Tasks: SP3\_A1\_T1.1 SP3\_A1\_T1.2 SP3\_A1\_T1.3 SP3\_A1\_T1.4 SP3\_A1\_T1.5 SP3\_A1\_T1.6  
SP3\_A5\_T5.1 SP3\_A5\_T5.2 SP3\_A5\_T5.3 SP3\_A6\_T6.2 SP3\_A6\_T6.3 SP3\_A6\_T6.4 SP3\_A6\_T6.5  
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) and Regulation of Research Grants of Fundação para a Ciência e a Tecnologia, in force <https://www.fct.pt/apoios/bolsas/regulamento.phtml>.

**Work place:** The work will be developed at the Department of Mechanical Engineering of the Faculty of Engineering of the University of Porto (FEUP), under the scientific supervision of Professor Joaquim Gabriel Mendes.

**Grant duration:** Initial duration of 12 months, with starting date predicted to August 2020, on an exclusive basis eventually renewable but never exceeding the project duration.

**Stipend:** The grant stipend amounts to 1064,00€ according to the table of values of the grants awarded directly by FCT, I.P. in the Country. The payment will be made by bank transfer.

**Selection procedure:**

A curriculum evaluation will be carried out in which the following factors will be considered:

a) Academic qualifications (Master in Automation / Telecommunication - 5 points; Master in related areas - 2 points)

b) Research and/or professional experience in electronics and microprocessor programming (over 1 year - 5 points; up to 1 year - 2 points; no experience - 0 points).

c) Publications (more than one publication in the work plan area - 5 points; one publication in the work plan area - 2 points; without publications in the work plan area - 0 points)

The candidates with a rating lower than 5 points in the curriculum evaluation will not be selected.

The three candidates with a rating equal to or higher than 5 points in the best-classified curriculum evaluation will be selected for interview (maximum 5 points).

The final grade is computed adding the curricular assessment with the interview.

**Scoreboard:**

President of the selection committee: Researcher Lúcia Maria da Silva Ribeiro

Effective member: Professor Joaquim Gabriel Magalhães Mendes

Effective member: Professor João Manuel Ribeiro da Silva Tavares

Supplementary member: Professor Jorge Manuel Gomes Barbosa

Supplementary member: Fernando Gomes de Almeida

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**Advertisement of final decision:** The results of the evaluation will be released to the candidates by email to the email address indicated in the application process.

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

The call is open from **17-07-2020 to 30-10-2020**

Applications must be formalized by email to [jgabriel@fe.up.pt](mailto:jgabriel@fe.up.pt) and to [recursoshumanos@fe.up.pt](mailto:recursoshumanos@fe.up.pt), should clearly state the reference **FEUP- SafeCities\_Perfil130**, and must include Motivation Letter, Certificates evidencing academic degree, Curriculum Vitae, and other documents considered relevant by the applicant.

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