1 Research Grant Announcement (M/F)

Call open for applications for a research grant within the framework of project THEIA: Automated Perception Driving, with reference POCI-01-0247-FEDER-047264, co-financed by the European Regional Development Fund (ERDF), through the Operational Program for Competitiveness and Internationalization (COMPETE 2020) and Portugal 2020, under the following conditions:

Scientific Area: Computer Vision

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

Requirement 1:

- Be a student enrolled in a doctoral program in the areas of Electrical and Computer Engineering, Informatics or similar, a requirement to be duly proven at the time of signing the contract.

or

- To be enrolled in a non-academic degree course integrated in the educational project of a higher education institution, developed in association or cooperation with one or more R&D units, a requirement to be duly proven at the time of signing the contract.

Note: In the case of masters who are enrolled in non-academic degree courses, the scholarship can only be awarded to those who do not exceed, with this scholarship contract, including possible renewals, an accumulated period of two years in that typology of the scholarship, followed or interpolated.

and

Requirement 2:

-       Hold a master's degree in Electrical and Computer Engineering, Informatics, Computer Vision, Data Science or related field.

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.

Workplan: Contribute to the development of semantic perception solutions (based on deep learning) for autonomous vehicles (contributing to improve the sensory capabilities of the autonomous vehicle, even in complex and unpredictable driving environments), with a focus on pre-semantic segmentation based on LiDAR, which will provide information on atmospheric conditions, sensor signal lockout/quality uncertainty and distance estimation.

Profile 254: Tasks SP1.A1.T5; SP1.A3.T1; SP1.A4.T1; SP1.A5.T1; SP1.A6.T1. These tasks can be adjusted depending on the feasibility of the project. All changes that imply the assignment to other tasks will be subject to a request for approval to AICEP.

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.pt) and Regulation of Research Grants of University of Porto.

Work place: The work will be developed at the Department of Department of Electrical and Computer Engineering of the Faculty of Engineering of the University of Porto (FEUP), under the scientific supervision of Professor Jaime dos Santos Cardoso.

Grant duration: Initial duration of **12 months**, with the predicted starting date in **September 2021**, on an exclusive basis eventually renewable but never exceeding the project duration.

According with article 6 of the Research Grants Regulation of the Foundation for Science and Technology, I.P., in case of being selected student enrolled in a non-academic degree course integrated in the educational project of a higher education institution, developed in association or cooperation with one or more R&D units, this scholarship will not be renewed.

Note: **This announcement is published pending the signature of the Term of Acceptance for the granting of the project incentive. Therefore, FEUP will assess this circumstance at the time of the grant attribution, which may not occur.**

Stipend: The grant stipend amounts to 1.104,64€ 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:

A curricular evaluation (60%) will be done based on the merit of the candidate, in which the following factors will be evaluated:

a) Academic training (Master in Electrical and Computer Engineering, Informatics, Computer Vision, Data Science or similar area - 10 points; Others Masters – 2 points)

b) Publications in the area of computer vision or deep learning - 5 points, Publications in other areas – 2 points

c) Research Experience in the project area – 5 points; in related areas – 3 points; Other areas – 1 point

The curriculum of each candidate will be evaluated in a 1-20 points scale. Candidates with less than 13/20 points in the curricular evaluation will not be invited for the interview.

In the interview (40%) topics related with the work plan, experience and the candidate's CV will be discussed with the invited candidates.

Selection Jury:

President: Professor Doctor Jaime dos Santos Cardoso

Effective member: Professor Doctor Luís Filipe Pinto de Almeida Teixeira

Effective member: Professor Doctor Andry Maykol Gomes Pinto

Supplementary member: Professor Doctor Aníbal Castilho Coimbra de Matos

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 **09-09-2021 to 22-09-2021** (until 23h59m, GMT time).

Applications must be formalized by email to jaime.cardoso@fe.up.tpt and to recursoshumanos@fe.up.pt, clearly stating the reference **FEUP-THEIA-PS1-WP1-BolsaMSc1** and including the following pdf documents: Motivation letter, Copy of certificates evidencing academic degree (referring the classification of each separated or integrated degree), detailed Curriculum Vitae; Declaration on honor that the candidate fulfills the requirement contained in article 6 of the Regulation for Research Grants of the Foundation for Science and Technology, I.P. (model below. For student enrolled in a non-academic degree course integrated in the educational project of a higher education institution, developed in association or cooperation with one or more R&D units) and other documents considered relevant by the applicant.

In order to assure that all documents can be read, the preferred saving format is the Portable Document Format (.pdf).

Declaration on honour

I, (identification of the scholarship holder), holder of the Citizen Card / Visa / Residence Permit no. valid until _____, declare under honour, to be in the conditions of no. 5 of article 6º
 of the Research Grants from FCT, IP - Regulation No. 950/2019, of 16 December.

Oporto, __/__/__

Signature

_____

(scholarship holder)