Department of Computer Science
School of Science and Technology

Research Grant - Master enrolled in a cycle of studies or non-degree course

December 10, 2021

A call for tenders is open for (one) Scholarship (Master enrolled in a cycle of studies or non-degree course) within the scope of the project MOPREVIS - *Modelação e Predição de Acidentes de Viação no Distrito de Setúbal*, com referência FCT DSAIPA/DS/0090/2018, financed by the Foundation for Science and Technology (FCT) under the National Initiative on Digital Skills e.2030, Portugal INCoDe.2030, under the following conditions:

Scientific Area: Computer Science

Admission Requirements: Master degree in Informatics (or related area). Experience in Machine Learning and Data Science will be a preferred factor.

As set forth FCT Research Scholarship Regulation No. 950/2019 of December 16, 2019, article 3 and 6, candidates for "**BI**" (Research Grants) must comply as a rule condition for the award of the scholarship, the effective inclusion in study cycles leading to the attribution of academic degrees or in courses not leading to an academic degree. Courses that do not confer an academic degree correspond to the courses provided for in subparagraph e) of paragraph 3 of article 4 of Decree-Law No. 74/2006 of 24 March and must be developed in a higher education institution in association with at least one R&D unit, including a course plan in one or several research areas of the unit.

Work plan: It is intended to design and implement an automatic accident risk prediction solution through the application of Machine Learning techniques. The work will comprise the following steps:
- Prediction: implementation of a solution to detect complex events related to the risk of accident, based on Data Science and Machine Learning;
- Alarmistic and Reporting: development of alarmistic tools regarding certain scenarios related to accident risk; automation of analytical processes for reporting.

Applicable legislation and regulations: The granting of the Research Scholarship will be carried out upon the signing of a contract between the University of Évora and the scholarship holder, as set in the template https://www.fct.pt/apoios/Minuta_Contrato_Bolsa.docx , pursuant to the Research Scholarship Statute (Law No. 40/2004 of August 18 and Decree-Law No. 123/2019 of August 28) and in accordance with the legislation and Regulation of Research Grants of the

Foundation for Science and Technology, IP in force, regulation nº950/2019 of December 16, 2019: https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt and other applicable rules.

Place of work: The work will be developed at Department of Computer Science of the University of Évora, under the scientific guidance of the Prof. Vitor Nogueira and Prof. José Saias

Duration of the scholarship: The scholarship will have a duration of six months, starting on January 2022.The scholarship contract may be renewed up to the end of the funding project's budget allocation.

Amount of monthly maintenance allowance: The amount of the scholarship corresponds to €1104,64, according to the table of scholarships awarded directly by FCT, I.P. in Portugal (http://fct.pt/apoios/bolsas/valores), payments being made monthly, by check or bank transfer.

Selection methods: The selection methods to be used will be the following: curriculum evaluation and interview, with the valuation of 50% (fifty percent) and 50% (fifty percent), respectively.

Composition of the Selection Jury:
President: Prof. Doutor Vítor Nogueira
1º Efective member – Prof. Doutor José Saias
2º Efective member – Prof. Doutor Paulo Infante
1º Suplementary member – Prof. Doutora Anabela Afonso
2º Suplementary member – Prof. Doutor Pedro Nogueira

Advertising/notification of results: The final results of the evaluation will be publicized, through an ordered list (alphabetically, by final grade obtained or otherwise) posted in a visible and public place of Department of Computer Science of the School of Science and Technology - UÉ, being the candidate approved notified through email.

To ensure the right of prior hearing of interested parties, the Final Classification project will be announced by any written means to all interested parties.
After communicating the provisional list of the results of the evaluation, candidates have a period of 10 working days to express their opinion in a preliminary hearing of interested parties.

Application deadline and submission of applications: The tender is open from December 13, to December 24 of 2021 and the results of the selection will be published by December 29 of 2021.

Applications must be formalized, obligatorily, by sending an application letter with the following documents:

- *Curriculum Vitae*
- certificate of qualifications
- (optionally) other supporting documents deemed relevant.

For the purposes of application, the evidence may be replaced by a declaration of honor signed by the candidate, but the failure to demonstrate that evidence, in the contracting phase, possession of the required degree on the deadline for application or the non-presentation of proof of enrollment in the study cycle or non-degree course, for scholarships with this component, imply the cancellation of the candidate's application.

Academic degrees obtained in foreign countries require registration by a Portuguese Institution in accordance with Decree-Law no. 66/2018, of August 16 and Ordinance No. 33/2019, of January 25th.

The presentation of the certificate is mandatory for the signing of the contract. More information can be obtained at: https://www.dges.gov.pt/pt/pagina/recognition?plid=374

Applications must be sent by email to:

Vitor Nogueira
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e-mail: vbn@uevora.pt