

CALL for ASSIGNMENT of a RESEARCH GRANT

within the scope of the R&D Project Telco Management and Big Data Analytics Platform (TelcoVista) – Ref: Grant TelcoVista-2

It is open a call for 1 (one) Research Grant for students enrolled in a cycle of studies leading to a master degree or graduates enrolled in a non-academic degree course, within the R&D Project “TelcoVista”-Telco Management and Big Data Analytics Platform”, Ref. Grant TelcoVista-2, co-funded by the TIMWE LAB, Lda., under the Scientific Technical Collaboration Agreement signed between TIMWE LAB, Lda. and the Department of Computer Science of the University of Beira Interior, Covilhã, Portugal, under the following conditions:

1. Scientific Area:

- Data Mining; Machine Learning; Big Data.

2. Admission Requirements:

- Bachelor of Science degree in an Engineering area with knowledge in programming.
- Experience in scientific research, preferably in projects related with Data Mining, Machine Learning and Big Data. Skills in programming languages such as Java and Python will be valued.
- Be a student enrolled in a cycle of studies leading to a master’s degree or enrolled in a non-academic degree course;

If the academic degree required for this competition has been awarded by a foreign higher education institution, it shall be in compliance with Decree-Law 66/2018, of 16 August and Ordinance no. 33/2019, of 25 January.

3. Work plan:

The grant will be applied in the research and development of an innovative management and Big Data Analytics platform for telecom operators that analyzes, in a safe and transparent manner, characteristics and behaviors of consumers to allow: (i) segmenting of consumers; (ii) providing adequate services according to profiles; and (iii), forecasting of the likelihood that a consumer might be abounding the operator in the near future or skip payments. Tasks for this research grant include specification of preliminary requirements for the decision support module of the ecosystem; research and

conceptualization of mechanisms to predict churn and bad debt on telco operators; integration of the mechanisms conceptualized to predict churn and bad debt on telco operators; specification, experimental development and testing of a prototype of the decision support module.

4. Legislation and applicable regulations:

Decree-Law no. 123/2019, of August 28, which approves the Research Fellow's Statute; Regulation of Scholarships of the Foundation for Science and Technology, Regulation of Research Scholarships of the University of Beira Interior (RBIUBI).

5. Place of Work:

The work will be developed at the premises of the Department of Computer Science of the University of Beira Interior, Covilhã, Portugal, under the scientific guidance of Professor Hugo Proença.

6. Duration and activity regime

The grant will last for 9 (nine) months, starting in November 2020.

The Research Grant awarded to graduates who are enrolled in course not conferring an academic degree can only be awarded to those who do not exceed, with the conclusion of the scholarship contract in question, including possible renewals, an accumulated period of two years in this type of scholarship, followed or interpolated.

The activity will be carried out on an exclusive dedication basis, in accordance with the provisions of the Research Grants Regulation of Universidade da Beira Interior.

7. Amount of the monthly maintenance allowance:

The amount of the monthly maintenance allowance of the scholarship corresponds to 798,00€ in accordance with Appendix I of the UBI Research Scholarship Regulation.

The monthly amount shall be rendered payable via bank transfer to an account held by the grantee.

The voluntary social insurance is added to the value of the grant, if the candidate chooses to join it, as well as the personal accident insurance.

8. Selection methods:

The selection methods to be used will be composed by 2 evaluation phases, according to the following:

1st phase - Curricular evaluation

2nd phase – Interview, which can be performed via video-conference.

The evaluation in the 1st phase includes the following criteria: *Curriculum vitae*/Academic evaluation (40%); Suitability of the candidates' profile to the project based on the relevant work experience in the tasks described in the work plan (50%); Fluency in oral and written English (10%).

The 3 candidates that present the highest scores after the 1st phase will pass to the 2nd phase.

For the final evaluation, each of the evaluation phases have an assessment of 50%.

9. Composition of the Selection Jury:

President: Hugo Pedro Martins Carriço Proença

Effective members: Pedro Ricardo Morais Inácio and Paulo André Pais Fazendeiro.

Substitute member: Maria Paula Prata de Sousa

10. Form of publication / notification of results:

The results of the evaluation will be publicized through a list sorted by final grade obtained, posted in a visible and public place of the Faculty of Engineering of the University of Beira Interior, Covilhã, Portugal. All accepted candidate will be notified by email, and they may use the right of hearing of interested parties, under the terms provided for in the Code of Administrative Procedure.

11. Application form

Applications must be formalized by sending an email of application, with the subject "Grant TelcoVista 2", accompanied by the following documents:

1. Cover letter explaining the interest in the position;
2. Curriculum vitae;
3. Copy of Certificate(s) of qualification with transcripts;

4. Citizen card or Passport details (validity, civil identification number, tax identification number);
5. Proof of enrollment in a Higher Education Institution in a cycle of studies conferring a master degree or proof of enrollment in a course not conferring an academic degree;
6. Other supporting documents considered relevant.

Applications that are incomplete or do not comply with the above instructions may not be evaluated.

12. Application deadline

The call is open from 19/10/2020 to 24:00h of 30/10/2020.

Applications must be formalized, by sending an email of application to Doutor Hugo Proença, Principal Investigator of the Project, with the subject “GRANT_TelcoVista-2”, to email address hugomcp@di.ubi.pt.