

**Notice of opening of the Contest for attribution of
1 Research Initiation Scholarships (BII)**

A call is now open for the attribution of one Research Initiation Scholarships (BIC) within the scope of the Research Center in Digital Services (CISeD) in the Polytechnic Institute of Viseu, with reference UIDB/05583/2020/INF/6R, funded by national funds, through the FCT/MCTES, under the funding granted by the Foundation for Science and Technology (FCT), within the scope of the Regulation for the Multiannual Assessment and Financing of R&D Units, under the following conditions:

Financing Sources: The project is financed through funds from FCT/MCTES, under project with reference UIDB/05583/2020.

Scientific Area: Informatics

Admission requirements:

Complete secondary education, in the area of Science and Technology, and be enrolled in a bachelor's degree in the area of Informatics, Electronics, Information Systems and Technologies or similar areas.

Preferential Conditions: Preferential conditions are: high motivation to work in a team and good interpersonal communication skills; capacity for autonomy and task management; programming experience in the Python language; knowledge in Operations Research; mastery of spoken and written English.

Work plan: Develop research activities under the guidance of Lead Researcher Ricardo Luís da Costa Gama, which include collaboration in the different tasks of the project activity plan:

1. Survey of the state of the art; Identification of current methodologies (2D and 3D) for obtaining human body measurements;
2. Implementation of a selection of methods proposed in recent literature to obtain human measurements through 2D images; carrying out performance tests on benchmark datasets with synthetic and real data;
3. Implementation of methods proposed in recent literature to obtain human measurements through 3D information; carrying out performance tests on benchmark datasets with synthetic and real data;
4. Development and performance testing of hybrid approaches, using machine learning algorithms and heuristics to obtain human body measurements with a view to practical application in the textile industry.

Applicable legislation and regulations: Law No. 40/2004 of August 18, which approves the Research Fellowship Statute, amended by Decree-Law No. 202/2012 of August 27, by Law No. 12/2013, of January 29, Decree-Law No. 89/2013, of 9 July and Decree-Law No. 123/2019 of 28 August, FCT Research Grant Regulation, available at and <https://www.fct.pt/apoios/scholarships/regulamento.phtml.pt> and Regulation of Research Scholarships of the Polytechnic Institute of Viseu, published in Diário da República, no. 112, 2nd series, of 9 June 2020.

Workplace: The work will be carried out in the premises of the Polytechnic Institute of Viseu, under the scientific guidance of Professor Ricardo Luís da Costa Gama.

Scholarship duration: The scholarship will last for 4 months, possibly renewable, and cannot, in any case, exceed the end of the financing

Amount of monthly maintenance allowance: The amount of the scholarship will be € 601.12, according to the table of scholarship values in force established for this type of

scholarship by the FCT. https://www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM_atualizacao-2024.pdf

Selection methods: curriculum assessment (AC) and selection interview (ES).

The curriculum assessment (AC) will be based on the following criteria:

- a) Basic Academic Qualification (HA)
- b) Proven experience in recent research, demonstration, and dissemination activities within the scientific area of the application (EP)

The selection interview (ES) will be evaluated according to the following criteria:

- a) Communication and knowledge transmission capacity (CCTC)
- b) Demonstration of technical-scientific experience (DETC)

The Final Classification, used for the ranking of candidates, is expressed on a scale from 0 to 20 values and is given by the following formula: $CF = 0.5*AC + 0.5*ES$ [where $AC = 0.7*HA + 0.3*EP$, and $ES = 0.4 \times CCTC + 0.6 \times DETC$], where CF = Final Classification, AC = Curriculum Evaluation, ES = Selection Interview, HA = Academic Qualifications, EP = Professional Experience, CCTC = Communication and transmission capacity knowledge and DETC = Demonstration of technical-scientific experience, and in which all parameters are expressed on a scale from 0 to 20 values. Only candidates who obtain a grade equal to or greater than 12 points in the Curriculum Assessment will be selected for the selection interview.

Composition of the Selection Jury:

President of the Jury:

Prof. Ricardo Luís da Costa Gama

Effective Vowels:

Prof. José Paulo Ferreira Lousado

Prof. Rui Pedro Monteiro Amaro Duarte

Form of advertising/notification of results: The final results of the selection process will be published in an ordered list posted in a visible and public place of the Central Services of the Polytechnic Institute of Viseu; notifications to candidates will be made via e-mail.

By deliberation of the jury, a scholarship of candidates may be constituted.

A complaint may be filed against the jury's final deliberation, to be presented within 15 working days of the respective notification, in accordance with the provisions of article 10 of the Research Grants Regulation of the Polytechnic Institute of Viseu.

Contract and final report template: The contract template and the final reports to be drawn up by the grantee and supervisor are those that are attached to the IPV research grant regulations.

Application deadline and form of submission of applications:

The tender is open from **16/07/2024** to **29/07/2024**, only applications will be accepted within the established deadline.

Applications must be formalized, obligatorily, by email to ipv_nbolseiro@sc.ipv.pt indicating the project reference in the subject (Project: UIDP/05583/2020/INF/6R), accompanied by the following documents:

- (1) Motivational application letter duly dated and signed;
- (2) Detailed Curriculum Vitae with a breakdown of the grades in secondary education and in the curricular units carried out within the scope of the higher education course attended, and with telephone number, email and duly dated and signed;
- (3) Certificate attesting completion of complete secondary education, in the area of Science and Technology;
- (4) Proof of enrollment/enrollment in a degree in the area of Informatics, Electronics, Information Systems and Technologies or related areas.
- (5) Document attesting acceptance by the host institution, guaranteeing the necessary conditions for the proper development of the work or declaration, under a commitment of honour, of its presentation within 30 days after the end of the application deadline;

The conditional selection will only give rise to the effective hiring if the candidate has submitted, by the end of the deadlines established in this notice, all the documents necessary for the hiring.



The Vice-President of the Instituto Politécnico de Viseu,

Professor Helena Maria Vala Correia