



Instituto Politécnico
de Viana do Castelo

APROVED

IPVC President

References: - BI_17_2025_PRMT-H-DRIVOL2

CALL FOR THE AWARD OF ONE DOCTORATE PHD SCHOLARSHIPS IN THE SCOPE OF AN R&D PROJECT

An international call is open for a period of 10 consecutive days for the award of one (1) Research Grant (BI) within the scope of *proMetheus – Research Unit in Materials, Energy and Environment for Sustainability*, funded through the project *Agenda Drivolution – Transition to the Factory of the Future*, project no. C632394276-00466981, within the scope of the Mobilizing Agendas/Alliances for Reindustrialization, Notice no. 2022-C05i0101-02, of the Recovery and Resilience Plan (PRR) of Portugal, under development at the Polytechnic Institute of Viana do Castelo (IPVC), under the themes "WP2. *New automatic assembly line for front backrest, rear seat belt fastening and product finishing*" and "WP3. *EcoDispatch - Development of a new system for shipment, sequencing, and ecological transport*", financed by revenues from the aforementioned project.

The conditions for awarding the Scholarships are as follows:

Scientific Area: Mechanical Engineering, Mechatronics Engineering or related areas.

Admission requirements:

Candidates for these scholarship must have good knowledge of English (spoken and written), must have a degree and/or master's degree in Mechanical Engineering, Mechatronics Engineering or related areas, and must be enrolled (until the date of the beginning of their duties) in a PhD course in Mechanical Engineering (or related areas), aiming to consolidate their scientific training through the development of research work leading to the respective integrated academic degree. The granting of grant is dependent on the fulfillment of the application requirements, as well as the confirmation of obtaining funding for the aforementioned project.

The following may apply for this call:

- Portuguese citizens or citizens of other member states of the European Union;
- Citizens of countries third to the European Union;
- Stateless persons;
- Citizens benefiting from political refugee status.



Instituto Politécnico
de Viana do Castelo

Preferential conditions:

Knowledge and R&D in the target areas of the project; experience working in transdisciplinary teams; autonomy and dynamism; proficient command of the English language (spoken, read and written); good level of written communication; taste and aptitude for mechanics, mechatronics and robotics.

Work plan:

These doctoral research grant are intended to finance the carrying out, by scholarship holders, of research activities leading to the award of a doctoral degree in a Portuguese higher education institution. The research activities leading to the achievement of the academic degree of doctor of the selected fellows must be framed in the plan of activities and strategy of the proMetheus R&D unit of IPVC.

One research grant is in competition call, with the respective reference indicated, in the following theme:

1. Thermal and Fluids Analysis of 3D-Printed Robotic Systems (Ref. **BI_17_2025_PRMTH-DRIVOL2)**

Grantee should support the project coordinators and participate in the realization of various research activities in the specific scope of the theme and its application with a view to the development of new mechanical, mechatronic and robotic systems, aiming at the use of sustainable materials and manufacturing processes, computer vision technologies, artificial intelligence, autonomous navigation and intelligent control, subject to diverse thermal and fluid environments, including the review of the state of the art and use, the analysis of critical applications, the formulation and experimentation of new technological concepts, the modelling of systems, the 3D printing of components, the construction and assembly of demonstrators of various systems and the performance of mechanical and mechatronic tests in the laboratory, representative environments and operating environments.

Other tasks: Carrying out other tasks within the scope of the project's activities, including the management of acquisitions and external services, technological surveillance, support and writing of technical reports and scientific articles, support in the dissemination and transfer of project results and support in the preparation of applications for funding.

Applicable legislation and regulations:

Statute of the Scientific Research Grant Holder in force, available at the institutional address of IPVC (<https://www.fct.pt/apoios/bolsas/estatutobolseiro>) and Regulation of Research Grants of the



Instituto Politécnico
de Viana do Castelo

Polytechnic Institute of Viana do Castelo approved by Order No. 7347/2020, published in the Official Gazette 2nd Series, No. 141 of July 22, 2020.

Workplace:

The work will be developed at the facilities of proMetheus, located at the School of Technology and Management (ESTG) of the Polytechnic Institute of Viana do Castelo (IPVC) under the scientific guidance of Prof. Adélio Cavadas and Prof. César Vasques.

Duration of the fellowship:

The fellowship will have a duration of 6 months, scheduled to start as soon as possible, with the possibility of successive renewals for periods to be defined, up to a maximum duration of 3 years. The possibility of renewal will always be dependent on and subject to the financing authorization of the project in question.

Amount of the monthly maintenance allowance:

The scholarship amount is €1,309.64 per month, according to the table of subsidies for research scholarships at IPVC, updated by Order of the President of IPVC on March 20, 2025, and will be paid by bank transfer.

The scholarship is associated with obtaining a doctoral degree and, in addition to including the other components provided for in the IPVC research scholarship regulations, it includes a subsidy for registration, enrollment, or tuition fees related to obtaining a doctoral degree.

Special requirement for the award of the scholarship amount: A national tax identification number must be presented by the end of the month in which the contract is signed, otherwise payment of the scholarship will not be possible.

Evaluation of applications:

Applications will be evaluated taking into account the selection criteria set out below on a scale of 0 to 20 values and will be ranked according to the final score obtained. In the event of withdrawal of the selected candidate with the highest score, the second candidate will be automatically selected from the ordered list of ranking candidates and, so on, until the candidates with a score greater than or equal to 9.5 are exhausted. Failure to comply with the admission requirements, score lower than 9.5 or failure to submit the complete documentation required for the application, may determine the exclusion of the candidate.

Selection criteria:

Curriculum evaluation (evaluation of 1). If the jury deems it necessary, an interview may be held with the candidates placed in the first three positions for each scholarship, according to the curriculum evaluation. In this case, the selection will be made according to the curricular evaluation (evaluation of 0.5) and interview (evaluation of 0.5), with equal evaluations.



Instituto Politécnico
de Viana do Castelo

The curricular evaluation will be carried out based on the following aspects and weights: academic qualifications and respective academic performance [30%], experience in the target technologies of the project [40%] and R&D experience in the scientific area of the grant [30%]. The evaluation of the interview will be carried out based on the following aspects and weights: motivation for the objectives of the project [40%], technical-scientific communication and oral expression skills [30%], and mastery of English [30%].

Composition of the Selection Jury:

Prof. Adélio Manuel de Sousa Cavadas (president of the jury), Prof. César Miguel de Almeida Vasques (effective member) and Prof. Mário Jorge Costa Tomé (effective member).

Form of publication/notification of results:

The draft decision is published on the IPVC Portal (www.ipvc.pt). Candidates who are unsuccessful in the award of the scholarship have a period of 10 working days, after the disclosure, to make their opinion, if they wish, in a prior hearing of interested parties, under the terms provided for in the Code of Administrative Procedure. A complaint or appeal may be lodged against the final decision with the president of the IPVC within 10 working days from the respective notification of the final decision.

Application deadline and form of submission of applications:

The application deadline runs until the 10th consecutive day from the date of publication.

Applications must be formalized by sending an application letter referring to the title and reference of the project, describing the candidate's motivation and professional goals, accompanied by the following documents:

- Motivation letter;
- *Curriculum vitae* and copy of the 5 most relevant works selected by the candidate;
- Copy of the academic qualification certificates with a breakdown of the grades obtained in the curricular units and final grade, and may replace the breakdown of the grades obtained in the curricular units with an informal document with a list of grades and a declaration, under oath, declaring that the grades obtained are true and that they will be proven before the start of the scholarship;
- Copy of proof of enrollment in a doctoral course, which may be replaced by a declaration, under oath, that on the date of granting the Contract for the Attribution of Scholarship Subsidy, you must present a document proving enrollment in a doctoral course;
- Updated document proving the professional situation, indicating the nature of the bond, functions, and average weekly workload (if applicable), which may be replaced by a declaration under oath if you do not carry out any professional activity or provision of services;
- Letters of recommendation (optional and a maximum of two).



Instituto Politécnico
de Viana do Castelo

Applications must be sent by e-mail to bolsainvestigacao@ipvc.pt (the subject of the message must include the following reference **BI_17_2025_PRMTH-DRIVOL2**).