

ANNOUNCEMENT FOR THE ALLOCATION OF ONE (1) RESEARCH SCHOLARSHIP FOR THE RESEARCH INSTITUTE IN DESIGN, MEDIA AND CULTURE (ID+)

Title: Announcement for the allocation of one (1) Doctoral Student Research Grant

Reference: 1PhD_FAIST_ID+PRR

Number of Vacancies: 1 vacancy

Project: FAIST - Sustainable and Technological Intelligent Agile Factory

The Research Institute in Design, Media and Culture (ID+), the R&D unit of the School of Design (ESD) of the Polytechnic Institute of Cávado and Ave (IPCA), is launching a call for one (1) Research Grant for a PhD student (BD), in the scope of the FAIST - Smart, Sustainable and Technological Agile Factory project, financed by the funds of the "Next Generation EU" program of the Recovery and Resilience Plan (PRR), in the scope of the Mobilizing Agendas for Business Innovation, in component 5 - Capitalization and Business Innovation under Notice no. No. 02/C05-i01/2022.

The study takes place at the Research Institute of Design, Media and Culture (ID+), an R&D unit of the School of Design (ESD) of the Polytechnic Institute of Cávado and Ave (IPCA), and at the Technological University of the Shannon: Midlands Midwest (TUS).

Scientific Domain: Industrial Design

Admission Requirements: master's degree in the areas of Design, Product Design, Industrial Design, Generative Design or in areas considered related and enrolled in the PhD programs of the Technological University of the Shannon: Midlands Midwest (TUS).

Eligibility of candidates: the following are eligible for grants funded directly or indirectly by the IPCA:

- a. National citizens or citizens of other member states of the European Union;
- b. Third State citizens;
- c. Stateless persons;
- d. Beneficiaries of political refugee status.

In the case of grants where all or part of the work plan is to be carried out in foreign institutions, only applicants who can prove that they are permanent and habitual residents in Portugal on the date the grant is awarded are eligible.

Work plan area: Industrial Design, Generative Design, Industry 4.0

Objectives of the work plan: The IPCA (Polytechnic Institute of Cávado and Ave) will have R&D activities for the creation of knowledge related to the design of new typologies of footwear for circularity and automation. The circular economy is increasingly a philosophy of interest across various industries, and footwear is no exception. However, with the introduction of new materials and processes, the design of new products based on the pillars of eco design and zero waste cannot be done in the same way for conventional products, thus arising the need to create knowledge in terms of footwear design rules for circularity. These design rules will consider the materials and production processes, but also their destination at the end of life, whether recycling or dismantling. Also, the development of new methods for optimizing production, using greater automation, can reduce the costs associated with the industrialization of footwear manufacturing. From here arises the need to create knowledge and design rules for footwear to be produced by new technologies. Thus, the goal is to create knowledge about these new types of footwear and that can later be disseminated by the footwear industry in Portugal and the world.

The candidate integrated in the scholarship with the reference 1PhD_FAIST_ID+PRR will focus on a methodological approach to product design, in the context of the so-called Industry 4.0, CAD-CAM practices are proposed; CNC design and production methods, through digital design and additive manufacturing processes (from the 3D scanning of the foot to the virtual parametric prototype of the shoe, from the definition of all components to the final production), using a disruptive approach regarding a new footwear anatomy, rethinking the physical constitution of the footwear in order to shorten, or even modify, the current footwear production system without, however, neglecting comfort and ergonomics and enhancing customization.

The results of these work plans should be translated into the writing of a doctoral thesis.

Legislation and applicable regulations: The Statute of the Research Grant Holder, approved by Law No. 40/2004 of 18 August, as currently published by Decree-Law No. 123/2019 of 28 August; Regulation of Research Grants of the Polytechnic Institute of Cávado and Ave, Regulation No. 821/2020 (Diário da República No. 191/2020, Series II of 2020-09-30).

Hosting and scientific orientation unit: The Work Plan will be developed in the Research Institute in Design, Media and Culture (ID+), a R&D unit of the School of Design (ESD) of the Polytechnic Institute of Cávado and Ave (IPCA), under the scientific supervision of Professor Doctor Miguel Machado de Abreu Terroso, Adjunct Professor of the School of Design of the Polytechnic Institute of Cávado and Ave; Professor Doctor Filipe José Palhares Chaves, Adjunct Professor at the Higher Technical Professional School of the Polytechnic Institute of Cávado and Ave and by

Professor Doctor Shioban Moane, from the Technological University of the Shannon: Midlands Midwest (TUS).

Duration of the grant: The grant in the country (BD in the country) will have a duration of 1 (one) year, starting in June 2023, possibly renewable, after positive evaluation and not exceeding the maximum duration of the project, which is expected to end on 31/12/2025 and the maximum duration limit of the grant (4 years: students enrolled in PhD).

Amount of the monthly maintenance allowance: The amount of the grant corresponds to a monthly maintenance allowance of 1,199.64€ as per the table of values of grants awarded directly by FCT (https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM_2023.pdf), and according to the table in Annex III of the Research Scholarship Regulations of the Polytechnic Institute of Cávado and Ave, according to the authorized update for the year 2023. This amount will be paid monthly, by bank transfer.

Other benefits:

- Reimbursement of Voluntary Social Insurance, corresponding to the 1st Scale of the contributory base and Personal Accident Insurance.
- Grant holders may also apply for a subsidy for complementary training activities for a maximum period of six months of the total duration of the grant (including renewals), with the payment of a single travel allowance, to be granted after a positive opinion by the supervisor, under the terms of the table attached to the present regulations (Annex III of the IPCA research grants regulations).
- One-off travel allowance, if justified, in the pre-established amount according to the table attached to the present regulation (Annex III of the IPCA's regulation of research fellowships);
- Installation subsidy for stays equal or superior to six consecutive months, in the pre-established amount according to the table attached to the present regulation (Annex III of the IPCA's Research Scholarship Regulation);
- The fellows can receive a one-off subsidy for participation in scientific meetings or missions, according to the table attached to the present regulation (Annex III of the IPCA's regulation of research fellowships);

The fellows, annually, have to present a report to the coordinator and scientific advisor of the Project on the development of their PhD.

Composition of the Selection Board:

President:

- Professor Doutor Miguel Machado de Sá Abreu Terroso, Adjunct Professor at the School of Design of the Polytechnic Institute of Cávado and Ave and integrated member of ID+.

Effective Members:

- Professor Duarte Filipe Oliveira Duque, Associate Professor at the School of Technology of the Polytechnic Institute of Cávado and Ave and integrated member of 2Ai.
- Professor Doutor Filipe José Palhares Chaves, Adjunct Professor at the Escola Superior Técnica Profissional do Instituto Politécnico do Cávado e do Ave.

Substitute Members:

- Professor Doctor João Luís Araújo Martins Vilaça, Coordinating Professor at the School of Technology of the Polytechnic Institute of Cávado and Ave and integrated member of the 2Ai.
- Professor Paula Tavares, Coordinating Professor of the School of Design of the Polytechnic Institute of Cávado and Ave and integrated member of ID+.

Evaluation and selection criteria and procedures: the evaluation of applications will focus on the candidate's merit, applying the following evaluation criteria, valued on a scale of 0 to 20 points:

Candidate Merit - MC (100%):

Applications deemed admissible will be scored on a scale of 0 to 20 on each of the following evaluation criteria:

Criterion A - Curriculum Assessment (CA), with the weight of 55%;

Sub-criterion A1 - Classification obtained in the Master's Degree plus Degree, with a weight of 50%;

Sub-criterion A2 - Experience in research projects, with a weight of 50%;

Sub-criterion B - Interview (ENT), with a weight of 40%:

Sub-criterion B1 - Motivation and interest in the position, with the weight of 20%;

Sub-criterion B2 - Capacity for expression, argumentation, and verbal fluency, with a weight of 20%;

Sub-criterion B3 - Posture and experience in teamwork, with a weight of 20%;

Sub-criterion B4 - Compatibility with the work plan profile, with a weight of 20%;

Sub-criterion B5 - Proven command of the English language, with a weight of 20%;

Sub-criterion C - Motivation Letter (CM), with a weight of 5%:

The interview has a maximum duration of 30 minutes.

For the purposes of the decision on the awarding of scholarships, candidates will be ranked according to the weighted average of the marks obtained in each of the three criteria, translated by the following formula:

$$\text{Classificação Final (CF)} = (A \times 0.55) + (B \times 0.4) + (C \times 0.05)$$

For tie-breaking purposes, the ranking of candidates will be performed based on the ratings assigned to each of the evaluation criteria in the following order of precedence: factor A followed by factor B and factor C. Next, the following order of precedence for the sub-criteria,

namely: A1, A2, B4, B5, B1, B3, B2, C. As a last resort, it will be the responsibility of the jury president to untie the candidates.

Ranking of candidates: the ranking of each candidate is obtained by the average of the scores of each member of the Selection Board.

In case of a tie, the decision to break the tie will be made by the President of the Selection Panel.

According to the FC, the candidate ranked in the first position will be selected for this scholarship if the Selection Jury considers that he/she has the appropriate profile.

Should one of the candidates in the list not accept the position, the Selection Committee members reserve the right to contact the candidates in the following positions, in order of seriation, to be awarded this scholarship.

The Selection Board reserves the right not to award the scholarship if no candidates with the appropriate profile are presented to the competition.

Dissemination of results: the draft results of the evaluation, based on the minutes, will be sent to the candidates by email, up to 60 working days after the deadline for submission of applications.

If the result is unfavorable to the grant requested, the candidates have a period of 10 working days to comment, if they wish, in a prior hearing to the interested parties, under the terms of articles 121 and 122 of the Administrative Procedure Code (DL nº 4/2015 of January 7).

Participation of interested parties and decision: the Draft Final List is notified to the candidates, by email with receipt of delivery of the notification, to comment for the purposes of the hearing of interested parties, under the terms of Article 121 and following of the Code of Administrative Procedure. In the absence of any allegations from the candidates, the draft final ranking is considered automatically approved.

Deadline and form for submitting applications:

The call is open for a period of 10 working days after publication on the electronic page <https://euraxess.ec.europa.eu>.

Applications and supporting documents for the application foreseen in this Notice must be submitted by electronic mail to idmais_poloipca@ipca.pt. In the subject of the e-mail, it is mandatory to put the reference of the scholarship to which you are applying. If the reference of the scholarship is not indicated in the subject of the e-mail, the candidate will be automatically excluded from the procedure.

When submitting your application, you must send us, via e-mail, the following documents in PDF format:

- Certificates of the academic degree of Master's and Bachelor's, specifying mandatorily the final classification and, if possible, the classifications obtained in all the subjects

taken, or, alternatively, a declaration of honor from the candidate that he/she has completed the master's degree by the end of the application deadline*;

- Curriculum vitae (<https://cienciavitae.pt/>);
- Motivation Letter;
- At least 1 letter of recommendation;
- Proof of enrollment in the current academic year - PhD (if applicable)**;
- Proof of grades obtained in the course units of the course in which the student is enrolled (if applicable).

*The presentation of the master's degree certificate, when it has been awarded by foreign higher education institutions, may be waived in the application stage, being replaced by a declaration of honor from the candidate, being mandatory the presentation of the foreign degree and diploma recognition document in the scholarship contracting stage. If there is a discrepancy between the information in the declaration and the documentation submitted for the purposes of contracting the scholarship, only the information in the latter will be considered. If it is found that the documents proving ownership of the academic degree and diploma, or the respective recognition under the terms of Decree-Law no. 66/2018, of 16 August, do not correspond to the marks awarded in the evaluation of the academic path and may consequently change the candidate's seriation, the contracting of the scholarship will not be affected.

**At the time of contracting, it is mandatory to present the document proving enrollment in the PhD programs of the Technological University of the Shannon: Midlands Midwest (TUS). It is optional for the applicant to submit any other documents that it considers relevant for consideration by the Selection Board.

The application and all documents associated with it, including letters of motivation and recommendation, must be written in Portuguese or English. The absence of any mandatory document, required at the time of submission of the application, is grounds for exclusion from the present competition. And, applications sent by other means will not be admitted.

It is mandatory for the candidate to submit his/her application by the deadline date set forth in this Announcement. If an application is submitted after the deadline established in this Announcement, it will be considered ineligible for this contest.

The Selection Board has the right to require any candidate, in case of doubt, to produce supporting documents for their statements.

False statements made by candidates will be punished in accordance with the law.

Complaint: the final ranking list, duly homologated, may be subject to complaint to the President of the IPCA, to be submitted within 15 working days from the date of notification, to the email ldmais_poloipca@ipca.pt, which has no suspensive effect.

Policy of non-discrimination and equal access:

The IPCA promotes a policy of non-discrimination and equal access, whereby no candidate may be privileged, benefited, prejudiced or deprived of any right or exempted from any duty on the grounds of, namely, ancestry, age, gender, sexual orientation, marital status, family situation, economic situation, education, origin or social condition, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, territory of origin, language, religion, political or ideological beliefs, and union membership.

Barcelos, August 4th, 2023.

The President of Instituto Politécnico do Cávado e do Ave

Professor Doctor Maria José Fernandes

ANEXO I Modelos

Modelo do Relatório Final de Apreciação do Programa de Bolsa a elaborar pelo Bolseiro

Identificação do bolseiro:

Identificação da bolsa, do projeto e entidade de acolhimento:

Orientador científico da bolsa:

1. Objeto e objetivos da bolsa

[De acordo com o tipo de bolsa, anúncio e plano de atividades]

2. Trabalhos desenvolvidos

[Apresentação cronológica das atividades desenvolvidas, incluindo listagem das publicações e trabalhos elaborados no âmbito do contrato de bolsa com os respetivos endereços URL, bem como cópia do respetivo trabalho final, no caso de bolsa concedida para obtenção de grau ou diploma académico].

3. Resultados

[Descrição sucinta dos resultados alcançados e eventuais desvios]

4. Apresentação dos resultados alcançados

5. Autoavaliação e avaliação do programa de bolsa

[Análise crítica do trabalho desenvolvido, conhecimentos adquiridos e avaliação geral – positiva ou negativa – do desempenho e do programa de bolsa]

Nota: Anexos a apresentar em formato eletrónico: Publicações e Trabalhos elaborados no âmbito do Contrato de Bolsa e cópia do Trabalho Final apresentado, no caso de Bolsa concedida para a obtenção de grau ou diploma académico. Em caso de bolsa de participação em reuniões científicas anexar comprovativo de presença na reunião.

Barcelos, ___ de _____ de 20__

O Bolseiro de Investigação, _____ (nome completo)

Modelo de Relatório Final de Avaliação da Atividade do Bolseiro de Investigação Científica a elaborar pelo Orientador Científico

Orientador científico da bolsa:

Identificação da bolsa, do projeto e entidade de acolhimento:

Bolseiro:

1. Análise crítica das atividades e do trabalho desenvolvidos pelo bolseiro

[Breve descrição das atividades desenvolvidas pelo bolseiro, de acordo com o anúncio e o plano de atividades e apreciação crítica dos objetivos e resultados atingidos pelo bolseiro.]

2. Avaliação final do trabalho desenvolvido pelo bolseiro

[Apreciação global fundamentada do trabalho desenvolvido pelo bolseiro, com balanço final positivo ou negativo, abordando o seu desempenho, esforço e dedicação]

Barcelos, ___ de _____ de 20__

O Orientador Científico da Bolsa, _____ (nome completo)

ANEXO II

Contrato de Bolsa de Investigação

ENTRE:

PRIMEIRO: INSTITUTO POLITÉCNICO DO CÁVADO E DO AVE, pessoa coletiva número 503 494 933, com sede na avenida Professor Doutor João Carvalho, Campus do IPCA, 4750-810 Barcelos, representado neste ato pelo sua Presidente, ____, adiante designado por **Primeiro Outorgante**

e

SEGUNDO: ____, de nacionalidade ____, nascido a __-__-____, portador do ____ (Cartão de Cidadão/Bilhete de Identidade/Passaporte/Outro) n.o _____, válido até __-__-____, contribuinte fiscal n.º _____, residente na ____, adiante designado por **Segundo Outorgante**,

É celebrado de boa-fé e reciprocamente aceite o presente contrato de **bolsa** de investigação ao abrigo do Estatuto do Bolseiro de Investigação, aprovado pela Lei n.º 40/2004, de 18 de agosto, na sua redação atual, e do Regulamento de Bolsas de Investigação do IPCA, que se rege pelas cláusulas seguintes:

CLÁUSULA 1.ª – O **Primeiro Outorgante** compromete-se a conceder ao **Segundo Outorgante** uma bolsa de ____ (indicar e caracterizar o tipo de bolsa e sua referência) no âmbito do projeto “____” (indicar a referência e o título do projeto em que se insere, se for o caso) financiada por _____, pelo período de ____ (indicar meses ou dias, consoante o caso), ____ (eventualmente renovável OU não renovável), com início em __-__-____.

CLÁUSULA 2.ª – 1. O **Segundo Outorgante** obriga-se a desenvolver os trabalhos constantes do plano de atividades anexo ao presente contrato de bolsa, cujo conteúdo declara ter tomado conhecimento integral e aceitar sem reservas a partir da data de início do presente contrato.

2. O desempenho de funções pelo **Segundo Outorgante** a título de bolseiro é efetuado em regime de dedicação exclusiva nos termos previstos no artigo 5.o do Estatuto do Bolseiro de Investigação.

3. O **Segundo Outorgante** realiza os trabalhos no _____, sito em __, que funciona como entidade de acolhimento, tendo como Orientador Científico ____ (nome e instituição).

CLÁUSULA 3.ª - Ao **Segundo Outorgante** são reconhecidos os direitos previstos na lei, de acordo com a sua situação, nomeadamente nos artigos 9.º a 11.º do Estatuto do Bolseiro de Investigação, no(s) regulamento(s) aplicável(eis) e no presente contrato.

CLÁUSULA 4.ª - O **Segundo Outorgante** obriga-se a cumprir os deveres, aplicáveis à sua situação, previstos na lei, nomeadamente no artigo 12.º do Estatuto do Bolseiro e Investigação, no(s) regulamento(s) aplicável(eis) e no presente contrato.

CLÁUSULA 5.ª– 1. O montante do subsídio mensal de manutenção é de €____,____ (____), a liquidar mensalmente, através de cheque ou transferência bancária.

2. O **Segundo Outorgante** beneficia também de um seguro de acidentes pessoais durante o período de concessão da bolsa, de cujas condições declara ter tomado conhecimento e aceitar sem reservas.

2. Acrescem ainda as seguintes componentes de bolsa_____ (indicar se aplicável).

CLÁUSULA 6.ª – 1. O presente contrato não gera qualquer relação de natureza jurídico-laboral nem de prestação de serviços, não adquirindo o bolseiro a qualidade de trabalhador em funções públicas. **2.** Não são devidos subsídios de alimentação, natal, férias ou quaisquer outros não previstos no Estatuto do Bolseiro de Investigação, no(s) regulamento(s) aplicável(eis) e no presente contrato.

CLÁUSULA 7.ª – 1. Ao presente contrato aplica-se o Estatuto do Bolseiro de Investigação e o Regulamento Bolsas de Investigação do IPCA, do qual o bolseiro declara ter tomado conhecimento. **2.** Os casos omissos serão decididos pelo Presidente do IPCA, ouvido o Orientador científico.

CLÁUSULA 8.ª – São causas de cessação do contrato as previstas no Estatuto do Bolseiro de Investigação e no Regulamento Bolsas de Investigação do IPCA

As partes declaram estar de acordo com o clausulado neste contrato, que é feito em duplicado, ambas as vias valendo como originais, ficando um exemplar na posse de cada um dos Outorgantes.

Barcelos, __ de _____ de _____.

O Primeiro Outorgante,

O Segundo Outorgante,