

## ANNOUNCEMENT FOR AWARDING TWO (2) SCIENTIFIC RESEARCH GRANTS (BI) IN THE FRAMEWORK OF R&D PROJECTS

**Reference:** DEP-PROJECT-IPCA-ESD-ID+-BL-1 and DEP-PROJECT-IPCA-ESD-ID+-BL-2

**Number of vacancies:** Two (2) vacancies

**Project:** Dep-Project - Design and incorporation of wearable prostheses.

A tender is open for the attribution of two (2) Scientific Research Grants (BI) to Graduates within the framework of the exploratory research project “Dep-Project - Design and incorporation of wearable prostheses” (2022.09053.PTDC), financed by the Foundation for Science and Technology, I.P. /MCTES through national funds (PIDDAC), through the Call for R&D Projects in All Scientific Domains - 2022.

### Scientific Areas:

scholarship 1 - Electrical and Computer Engineering / Medical Informatics Engineering;  
scholarship 2 – Industrial Design / Product Design / Fashion Design.

### Admission requirements:

- The candidate must be enrolled in a master's, integrated master's or doctorate or enrolled in a non-academic course, namely advanced training courses or postgraduate courses, in accordance with the established legal regime in numbers 3 to 6 of article 4 of Decree-Law no. 74/2006, of March 24, and
- Possess a degree <sup>(1)</sup> in the areas of Electrical and Computer Engineering, Medical Informatics Engineering, Industrial Design, Product Design or Fashion Design.

### Work plan to be developed throughout the scholarship period:

Scholarship 1 - As part of the Dep-Project project, the intention is to instrument an upper limb prosthesis printed using additive manufacturing. The selected candidate must operate a system based on Electromyography that allows moving the upper limb prosthesis.

Scholarship 2 - As part of the Dep-Project project, the intention is to develop a system that combines an upper limb prosthesis printed through additive manufacturing, with a textile piece that can cover the prosthetic device and its user. The selected candidate must carry out all phases of product development until obtaining a technically and aesthetically viable solution that can allow usability tests to be carried out with amputees.

In both fellowships, the project will be developed as a team, where fellows will focus on defining the structural requirements for the prototype to be developed, as well as on developing a new design concept to couple all components of the prosthetic system and a garment.

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<sup>(1)</sup> If the qualification has been conferred by a foreign higher education institution, it will have to be recognized by a Portuguese higher education institution, in accordance with the provisions of article 25 of Decree-Law no. 66/2018, of 16 August, which approves the legal regime for the recognition of academic degrees and higher education diplomas, awarded by foreign higher education institutions and paragraph e) of paragraph 2 of article 4 of Decree-Law no. 60/2018, August 3, and any formalities established therein must be fulfilled by the date of the contracting act.

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**Applicable legislation and regulation:**

Statute of Research Fellows – Decree-Law n<sup>o</sup> 89/2013, which was subsequently amended by Decree-Law n<sup>o</sup> 123/2019, of 28 August. Scholarship status in force: <https://www.fct.pt/apoios/bolsas/estatutobolseiro>. Regulation of Research Grants of the Polytechnic Institute of Cávado and Ave, Regulation n. o 821/2020 (Diário da República n. o 191/2020, Series II of 2020-09-30).

**Workplace:**

The work will be carried out at the R&D unit (ID+) of the Escola Superior de Design (ESD) of the Polytechnic Institute of Cávado e do Ave (IPCA) – Barcelos, under the scientific guidance of Professor Doctor Demétrio Matos.

**Scholarship duration:**

The scholarship will last for 12 months, starting in June 2023.

The scholarship contract may eventually be renewed, for successive periods of 3 months, provided that the candidate meets the stipulated requirements, up to the maximum time limit for which funding for the project is assured, if not denounced in writing, with prior notice. 60 days by either party.

**Amount of the monthly maintenance subsidy:**

Scholarship holders are awarded a monthly subsidy of €930.98, in accordance with the table of values for FCT scholarships [https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM\\_2023.pdf](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 Regulation of Research Grants of the Instituto Politécnico do Cávado e do 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 Security, corresponding to the 1st Step of the contributory base, and Personal Accident Insurance.

**Evaluation of applications:**

Applications will be evaluated considering the selection criteria set out below. In case of withdrawal of the selected scholarship holder, the second candidate will be automatically selected from the ranked list of candidates, and so on, sequentially, until the presented candidates are exhausted.

**Selection methods:**

The selection methods to be used will be the following: Curriculum evaluation, with a valuation of 50% and Selection Interview, with a valuation of 50%.

The Curriculum Assessment (AC) is based on the following criteria:

- Classification obtained in the degree – 50%;
- Related scientific and/or professional experience – 50%.

The Selection Interview (ES) will have a maximum duration of 30 minutes and is based on the following criteria:

- Motivation and interest in the place – 20%;
- Capacity of expression, argumentation and verbal fluency – 20%;

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- Sense of teamwork – 20%;
- Domain of the English language - 10%;
- Compatibility with the work plan profile – 30%.

In the event of a tie, preference will be given to the classification obtained in the CA, if a tie persists, preference will be given to the classification obtained in each of the factors that make up the ES criterion, in the following order:

- Compatibility with the job profile (30%);
- Sense of teamwork (20%);
- Motivation and interest in the place (20%);
- Capacity of expression, argumentation and verbal fluency (20%);
- Domain of the English language (10%).

Candidates who do not attend the interview, for reasons not legally justified, regardless of the score obtained in the curriculum evaluation, and candidates with a final classification of less than 9.50 will be excluded.

#### **Composition of the Selection Jury:**

President:

- Professor Doctor Demétrio Ferreira Matos, Project Coordinator and Adjunct Professor at Escola Superior de Design.

Effective Vowels:

- Professor Doctor Vítor Hugo Mendes da Costa Carvalho, Director and Coordinating Professor of the Superior School of Technology;
- Professor Doctor Daniel António da Silva Miranda, Invited Adjunct Professor at the Superior School of Technology.

Alternate Members:

- Professor Pedro André Gonçalves Morais, Assistant Researcher at 2Ai;
- Professor Doctor Jorge Manuel Lopes Brandão Pereira, Director and Adjunct Professor at the Superior School of Design.

In case of impediment of the President of the Jury, he will be replaced by the first effective member, and the substitute member will be called to replace the effective member. Minutes of the Selection Jury's meetings will be produced, under the responsibility of all its members.

#### **Stakeholder participation and decision:**

The Project of evaluation results is notified to the candidates, by email with receipt of delivery of the notification, for them to comment for the purpose of holding the hearing of interested parties, under the terms of article 121 and following of the Code of Administrative Procedure, to the e-mail [jdmais\\_poloipca@ipca.pt](mailto:jdmais_poloipca@ipca.pt) In the absence of pronouncement of the candidates, the final ordering project is automatically considered approved.

#### **Decision:**

Once the prior hearing period has elapsed, or the questions raised in this context have been considered, the jury prepares the final ranking list of the admitted candidates, submitting it, accompanied by the remaining parts of the procedure, for approval by the President of the IPCA.

#### **Form of publication/notification of results:**

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The results of the evaluation will be published, through a list ordered by the final grade obtained, posted in a visible and public place of the Escola Superior de Design, with the candidates being notified by email, with receipt of delivery of the notification, under the terms of article 19, nº 1, of the Regulation of Research Grants of the Instituto Politécnico do Cávado e do Ave.

**Application deadline and form of submission of applications:**

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

Applications must be sent exclusively by email to the following address: [ldmais\\_poloipca@ipca.pt](mailto:ldmais_poloipca@ipca.pt) duly referenced in the subject of the message.

Applications must be formalized, obligatorily through a presentation, accompanied by the following documents:

- Complete Curriculum Vitae;
- Proof of Enrollment in a master's, integrated master's, doctorate or in non-academic degree courses integrated in the educational project of a higher education institution;
- Certificate(s) of qualifications and other documents deemed relevant for consideration (optionally letters of reference).

The complete Curriculum Vitae and Qualifications Certificate documents are documents that must be presented, the non-delivery of which determines exclusion. Proof of enrollment in a master's, doctorate or non-degree courses must be presented until the scholarship is contracted. The candidate must attach a declaration of commitment of honor to confirm that they meet the requirements for enrolment in an integrated master's degree, master's or doctoral program.

If the candidate is not a Portuguese citizen, documental prove, at the time of signing the grant award contract, that he/she has authorization to lawfully remain in Portuguese territory and that enables him/her to sign the contract resulting from the grant award.

If the required qualification has been granted by a foreign higher education institution, it must comply with the provisions of Decree-Law No. 66/2018, of August 16 scholarship award.

Applications sent by other means or extemporaneous and incorrectly instructed will not be accepted.

**Complaint:**

A complaint can be made to the president of the IPCA against the final ordering list, duly approved, within 15 working days of the email notification, which has no suspensive effect.

**Non-discrimination and equal access policy:**

The IPCA and the FCT promote a policy of non-discrimination and equal access, whereby no candidate can be privileged, benefited, harmed or deprived of any right or exempt from any duty due to, namely, ancestry, age, sex, sexual orientation, marital status, family situation, economic situation, education, origin or social status, heritage genetics, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, territory of origin, language, religion, political or ideological convictions and trade union affiliation.

Barcelos, May 04, 2023

The President of the Polytechnic Institute of Cávado and Ave

Professor Doctor Maria José Fernandes

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## 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.

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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)

[Escreva aqui]

## 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.

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**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,

[Escreva aqui]