

ANNOUNCEMENT FOR THE AWARD OF TWO (2) SCIENTIFIC RESEARCH SCHOLARSHIPS (BI) UNDER THE SCOPE OF R&D PROJECT

Reference: FAIST_IPCA_EST_2AiPRR_BI_1 and FAIST_IPCA_EST_2AiPRR_BI_2

Number of positions: Two (2) positions

Project: FAIST - Sustainable and Technological Intelligent Agile Factory

The Laboratory of Applied Artificial Intelligence (2Ai), a R&D unit of the School of Technology (EST) of the Polytechnic Institute of Cávado and Ave (IPCA), open a call for two (2), Scientific Research Grants (BI) for undergraduate, under the scope of the project FAIST - Sustainable and Technological Intelligent Agile Factory, financed by the funds of the program "Next Generation EU" of the Recovery and Resilience Plan (PRR), under the scope of the Mobilizing Agendas for Business Innovation, in component 5 - Capitalization and Business Innovation under Notice no. No. 02/C05-i01/2022.

Scientific Areas:

Computer Science / Information Technology / Robotics

Admission requirements:

- The candidate must be enrolled in a master's degree, integrated master's degree or doctoral program or enrolled in a course that does not confer an academic degree, namely advanced training courses or post-graduate programs, according to the legal regime established in numbers 3 to 6 of article 4 of Decree Law No. 74/2006, of March 24, and
- Have a degree¹ in the areas of engineering (digital game development, computer science, electronics) or computer science.

Work plan to be developed throughout the fellowship period:

Grant 1 - To carry out a systematic review of the state of the art in Serious Games and Gamification in industrial contexts, focusing on the identification of best practices and potential applications in the footwear industry; To identify the functional and non-functional requirements of the learning platform, including the features and functionalities needed for effective learning and training in the footwear industry.

Grant 2 - To perform a systematic review of the state-of-the-art of the use of AI in the creation of personalised learning paths, focusing on the identification of best practices and potential applications in the footwear industry; To study the most recent technologies that use VR in education and training, focusing on the identification of potential applications in the footwear industry; To develop a prototype of the learning platform, taking into account the identified requirements.

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

Applicable legislation and regulations:

Research Grant Holder Statute - Decree Law No. 89/2013, which was subsequently amended by Decree Law No. 123/2019, of August 28. Research Grant Holder Statute in force: <https://www.fct.pt/apoios/bolsas/estatutobolseiro>. Regulation of Research Scholarships of the Polytechnic Institute of Cávado and Ave, Regulation No. 821/2020 (Diário da República No. 191/2020, Series II of 2020-09-30).

Place of work:

The work will be developed in 2Ai - Laboratory of Applied Artificial Intelligence, at the School of Technology of the Polytechnic Institute of Cávado and Ave - Barcelos, under the scientific supervision of Professor Duarte Filipe Oliveira Duque.

Duration of the grants:

The fellowship will have a duration of 12 months, with an expected start in July 2023. The fellowship contract may be renewed for successive periods of 12 months, if the candidate complies with the stipulated requirements, up to the maximum time limit during which project funding is assured, if not terminated, in writing, with 60 days' notice by either party.

Amount of the monthly maintenance allowance:

The grant recipients are awarded a monthly allowance of €930.98, under the terms of the table of values for FCT grants 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 Regulation 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.

Evaluation of applications:

Applications will be evaluated considering the selection criteria listed below. In case of withdrawal of the selected grant recipient, the second candidate will automatically be selected from the ordered list of candidates, and so on, sequentially, until all the candidates presented are exhausted.

Selection Methods:

The selection methods to be used will be as follows: Curricular Assessment, with a value of 50% and Selection Interview, with a value of 50%.

The Curricular Assessment (CA) is based on the following criteria:

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

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

- Motivation and interest in the position - 20 %;

- Capacity of expression, argumentation and verbal fluency - 20
- Sense of teamwork - 20%;
- Mastery of the English Language - 10%;
- Compatibility with the work plan profile - 30%.

In the event of a tie, preference will be given to the mark obtained in the CA; if the tie persists, preference will be given to the mark 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 position (20%);
- Capacity for expression, argumentation, and verbal fluency (20%);
- Mastery of the English language (10%).

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

Composition of the Selection Board:

President:

- Professor Doctor Duarte Filipe Oliveira Duque, Associate Professor at the School of Technology of the Polytechnic Institute of Cávado and Ave and responsible of the project.

Effective Members:

- Professor Doctor João Luis Araújo Vilaça, Professor at the School of Technology of the Polytechnic Institute of Cávado and Ave and Coordinator of the 2Ai.
- Professor Doctor Filipe José Palhares, Adjunct Professor at the Higher Technical Professional School of the Polytechnic Institute of Cávado and Ave.

Substitute Members:

- Professor Doctor António Herculano de Jesus Moreira, Assistant Professor at the Higher Technical Professional School of the Polytechnic Institute of Cávado and Ave.
- Professor Doctor Pedro André Gonçalves Morais, Assistant Researcher at the Technology Superior School of the Polytechnic Institute of Cávado and Ave.

Interested parties' participation and decision:

The Draft evaluation results are notified to the candidates, by e-mail with receipt of delivery of the notification, to comment for the purposes of holding a hearing of interested parties, pursuant to Article 121 and following of the Code of Administrative Procedure, to the email candidatura_2ai_est@ipca.pt. In the absence of a statement from the candidates, the draft final ranking is considered automatically approved.

Decision:

Once the period for prior hearing has elapsed, or the issues raised within this scope have been appreciated, the jury draws up the final sorting list of the candidates admitted, submitting it, accompanied by the remaining pieces of the procedure, to the IPCA President for homologation.

Form of publication/notification of results:

The results of the evaluation will be publicized, through an ordered list by final score obtained posted in a visible and public place of the School of Design, and the candidates will be notified by email, with receipt of delivery of the notification, under the terms of article 19, no. 1, of the Research Scholarship Regulation of the Polytechnic Institute of Cávado and Ave.

Application deadline and form of presentation of applications:

The competition is open for a period of 10 working days after publication on the website <https://euraxess.ec.europa.eu>. As candidaturas deverão ser enviadas exclusivamente por correio eletrónico para o endereço: idmais_poloipca@ipca.pt properly referenced in the subject of the message.

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

- Complete Curriculum Vitae;
- Proof of enrollment in a master's degree, integrated master's degree, doctorate or in courses that do not confer an academic degree integrated in the educational project of a higher education institution;
- Certificate(s) of qualifications and other documents considered relevant for assessment (optionally reference letters).

The complete Curriculum Vitae and Qualifications Certificate are mandatory documents, and failure to submit them will result in exclusion. Proof of enrolment in a master's degree, PhD or non-degree course must be submitted by the time the scholarship contract is awarded.

If the applicant is not a Portuguese citizen, he or she must, at the time of the grant agreement, provide documentary proof that he or she has permission to legally reside in Portuguese territory, which entitles him or her to enter into the contract resulting from the grant.

If the qualification requested has been conferred by a foreign higher education institution, it must comply with the provisions of Decree Law no. 66/2018, of August 16th, and any formalities established must be fulfilled by the date of the grant agreement.

Applications sent by other means or submitted out of time and incorrectly instructed will not be admitted.

Complaints:

From the final sorting list, duly homologated, it is possible to complain to the president of the IPCA, to be presented within 15 working days from the notification, to the email candidatura_2ai_est@ipca.pt, which has no suspensive effect.

Barcelos, 1 de agosto de 2023

The President of the Polytechnic Institute of Cávado and 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(is) 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(is) 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,