

ANNOUNCEMENT FOR THE AWARD OF A RESEARCH GRANTS FOR APPLIED ARTIFICIAL INTELLIGENCE LABORATORY (2AI)

Title: Announcement for one (1) Research Grant - PhD Research Scholarships

Reference: CoSMO-IPCA-EST-2AI-BIED-1

Number of positions: 1

Project: CoSMO PrP

The Applied Artificial Intelligence Laboratory (2Ai), an R&D unit of the School of Technology (EST) of the Polytechnic Institute of Cávado and Ave (IPCA), open a call for one (1) Research Scholarships for Students Enrolled in Doctoral Programmes (BIED), within the scope of the 'CoSMO PrP' project, operation code COMPETE2030-FEDER-00359900, through Notice (AAC) MPr-2023-004, SIID - Internationalisation of R&D - Industrial R&D operations on a European scale, funded by Portugal 2030.

Scientific Area:

- Electronic Engineering, Biomedical Engineering, Computer Engineering biomedical technologies or similar areas.

Admission Requirements:

- Candidates must have a Master's or Integrated Master's degree¹ in Electronic Engineering, Biomedical Engineering, Computer Engineering biomedical technologies or similar areas.

- Candidates must be enrolled, or meet the requirements for enrolment, in a doctoral programme 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.

Eligibility of candidates: The following are eligible for the award of scholarships financed directly or indirectly by the IPCA:

- a. National citizens or citizens of other member states of the European Union;

¹ 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

- b. Third-country citizens;
- c. Stateless candidate;
- d. Beneficiaries of political refugee status.

Work Plan:

- The 'CoSMO' project aims to integrate a procedure for analysing and obtaining platelet-rich plasma into a single solution using a single system with Artificial Intelligence (AI) technology. In particular, the fellow will be involved in the development of an artificial intelligence model to predict the success of the PRP.

Legislation:

- Research Fellowship Statute – Decree-Law No. 89/2013, which was later amended by Decree-Law No. 123/2019, of 28 August. Current scholarship holder statute: <https://diariodarepublica.pt/dr/legislacao-consolidada/lei/2004-58216179>.
- Regulation of Research Grants of the Polytechnic Institute of Cávado and Ave, Regulation approved by the Order n.º 12952/2023 (Diário da República n.º 242/2023, Série II de 2023-12-18).

R&D unit and supervision

- The Work Plan will be developed in the Laboratory of Applied Artificial Intelligence (2Ai), R&D unit of the School of Technology of the Polytechnic Institute of Cávado and Ave, under the scientific guidance of Professor Doctor João Luís Araújo Martins Vilaça of 2Ai of the School of Technology of the Polytechnic Institute of Cávado and Ave.

Scholarship duration:

- The grant will have a duration of 1 (one) year, starting in June 2025, possibly renewable, after a positive evaluation and not exceeding the maximum duration of the project, which is expected to end on 17/11/2027 and the maximum duration of the grant (4 years: students enrolled in a PhD).

Monthly maintenance allowance:

- The amount of the grant corresponds to a monthly maintenance allowance of € 1 309,64, according to the table of values of grants awarded directly by FCT (https://www.fct.pt/wp-content/uploads/2025/02/Tabela_valores_SMM_2025.pdf), and according to the table in Annex III of the Regulations for Research Grants of the Polytechnic Institute of Cávado and Ave, according to the update authorized for the year 2023.
- This amount will be paid monthly by bank transfer.

Other benefits:

- Reimbursement of Voluntary Social Insurance, corresponding to the 1st step of the contributory base, and Personal Accident Insurance.

Evaluation and selection criteria and procedures:

- The evaluation of the applications will focus on the candidate's merit, applying the following evaluation criteria, valued on a scale of 0 to 20:

Merit of the candidate - MC (100%):

Applications considered admissible will be scored on a scale of 0 to 20 in each of the following evaluation factors:

Factor A – Curricular evaluation (AC), with a weight of 55%;

Subfactor A1 - Classification obtained in the master's degree plus a degree, weighing 70%;

Subfactor A2 - Related scientific and / or professional experience, weighing 30%;

Factor B - Interview (Ent), weighing 40%:

Subfactor B1 - Motivation and interest in the place, with a weight of 20%;

Subfactor B2 - Capacity for expression, argumentation and verbal fluency, weighing 20%;

Subfactor B3 - Posture and experience of team work, weighing 20%;

Subfactor B4 - Compatibility with the work plan profile, weighing 20%;

Subfactor B5 - Proven command of the English language, weighing 20%;

Factor C - Motivation Letter (CM), weighing 5%:

The interview has a maximum duration of 30 minutes.

For the purposes of deciding on the award of scholarships, applicants will be ranked according to the weighted average of the classification obtained in each of the three factors, translated by the following formula:

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

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 classification of each candidate is obtained by the average of the ratings of each of the elements of the Jury.
- In the event of a tie, the decision to break the tie will be made by the Selection Jury, according to the criteria set out in minute 1.
- Based on the CF, the candidates in the first and two position will be selected for the award of this scholarship.

In the event of non-acceptance of the vacancy by one of the serial candidates, the members of the Jury reserve the right to contact the serial candidates in the following positions, in order of ranking, for the award of this scholarship.

Members of the Jury:**President:**

- Professor Doctor João Luis Araújo Martins Vilaça of the School of the School of Technology of the Polytechnic Institute of Cávado e Ave and Coordinator of 2AI.

Effective Members:

- Auxiliar Researcher Pedro André Gonçalves Morais, of the School of the School of Technology of the Polytechnic Institute of Cávado e Ave.
- Auxiliar Researcher Helena Daniela Ribeiro Torres, of the School of the School of Technology of the Polytechnic Institute of Cávado e Ave.

Substitute members:

- Professor Doctor Duarte Filipe Oliveira Duque of the School of the School of Technology of the Polytechnic Institute of Cávado e Ave.
- Professor Doctor Estela Maria dos Santos Ramos Vilhena of the School of the School of Technology of the Polytechnic Institute of Cávado e Ave.

Stakeholder participation and decision:

- The Final Ordering List Project is notified to candidates, by email with receipt of delivery of the notification, to comment for the purpose of holding the hearing of interested parties, under the terms of article 121 and following of the Administrative Procedure Code to email candidatura_2ai_est@ipca.pt. In the absence of allegations by the candidates, the final ordering project is considered automatically approved.

Decision:

- After the prior hearing period has elapsed, or after the questions raised in this context have been assessed, the jury draws up the final ranking list of the admitted candidates and submits it, together with the other parts of the procedure, to the President of the IPCA for approval.

Form of advertising/notification of results:

The results of the evaluation will be publicized, through a list sorted by the final grade obtained, and the candidates will be notified by email, with delivery receipt of the notification, pursuant to article 19, paragraph 1, of the Research Grants Regulation of the Polytechnic Institute of Cávado and Ave.

Submission of applications:

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

Applications and supporting documents for the application provided for in this Notice must be submitted by email to candidatura_2ai_est@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 scholarship reference is not indicated in the subject of the e-mail, the candidate will be automatically excluded from the procedure.

When submitting the application, the candidate must formally formalize by sending (via email) the following documents in PDF format:

- Certificates of qualification of the academic degree of Bachelor and Master, specifying mandatorily the final classification;
- Curriculum vitae (<https://cienciavitae.pt/>);
- Letter of motivation.
- At least 1 letter of recommendation.
- Document proving enrollment in the current academic year - PhD or enrolled in a non-academic course **;

* The presentation of the certificate of qualification of the academic degree of Bachelor and Master, when it has been awarded by foreign higher education institutions, can be dispensed in the application/submission phase, being replaced by the candidate's declaration of honor, being obligatory the presentation of the document of recognition of foreign degree and diploma in the process of contracting the scholarship. In situations of divergence between the information contained in the declaration and the documentation delivered for the purpose of contracting the scholarship, only the information contained in the latter will be considered. If it is found that the documents proving the 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 classifications attributed in the evaluation of the academic path and may, consequently, changing the candidate's ranking, the scholarship will not be contracted.

** Only at the time of contracting is it mandatory to present the document proving enrollment in the PhD Programmes or enrolled in a non-academic course the time of submission of the

application, the candidate must attach a statement of honour that he/she meets the requirements for enrolment for a doctoral degree, if he/she does not yet have the respective proof.

- The application and all associated documents, including letters of motivation and recommendation, must be written in Portuguese or in English. The absence of any mandatory document, required when submitting the application, is a reason for exclusion from this contest. And, applications sent by other means will not be admitted.
- It is mandatory for the candidate to present his / her application by the submission deadline set in this announcement. The submission of the application after the deadline set in this announcement is a reason for not being eligible for this call.
- The Selection Jury has the power to require any candidate, in case of doubt, to present supporting documents for their statements.
- False statements made by candidates will be punished under the law.
- If the candidate is not a Portuguese citizen, he/she must provide documentary evidence, at the time of signing the grant contract, that he/she holds an authorization to legally remain in Portuguese territory and that entitles him/her to enter into the contract arising from the grant award.

Complaint:

Complaints from the final ordering list, duly ratified, may be made to the IPCA president, to be submitted within 15 working days from the notification, to the email direccao_est@ipca.pt, which does not have a suspensive effect.

Non-discrimination and equal access policy:

The IPCA actively promotes a policy of non-discrimination and equal access, so that no candidate can be privileged, benefited, harmed or deprived any right or exemption from any duty due, in particular, to ancestry, age, sex, sexual orientation, marital status, family status, economic status, origin or social status, genetic heritage, reduced work capacity, disability, illness chronicle, nationality, ethnic or race origin, territory of origin, language, religion, political or ideological convictions and union membership.

Barcelos, 28 de maio de 2025

A Presidente do Instituto Politécnico do Cávado e do Ave

Professora Doutora 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)

ANEXO II

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 III

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. **3.** O Segundo outorgante beneficiará, ainda, do seguro social voluntário correspondente ao primeiro escalão, caso opte pela sua atribuição e desde que cumpra as condições legalmente previstas, comprometendo-se a entregar, até 10 dias úteis após o prazo de limite de pagamento, no serviço competente, o original do comprovativo de pagamento do Seguro Social Voluntário, sob pena de, esgotado aquele prazo, poder não ser reembolsado o valor em questão.

4. 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,