

**ANNOUNCEMENT OF A RESEARCH GRANT (BI)**

**Reference: IIA – LIC-2- RN21 INOVAÇÃO NA FILEIRA DA RESINA NATURAL**

Competition is open for the award for the award of a **RESEARCH GRANT (BI)** within the scope of the project **“RN21 Inovação na Fileira da Resina Natural / RN21 / PRR”**, of the Polytechnic Institute of Coimbra, financed by **PRR12**, through the financing line, **Promotion of Sustainable Bioeconomy**, Regulatory Framework **PRR12 Promotion and Valorization of Natural Resin**, under the following conditions:

The grant (LIC) will be aimed at the implementation and development of the following activities:

1. Identification and characterization (phenotypic, forest inventory and georeferencing) of the selected plants and check trees, for subsequent harvest of plant material
2. Collection of plant material, identification and processing for transport and subsequent DNA extraction and molecular characterization
3. Collection of plant material propagules, “garfos”, identification and processing for transport and subsequent establishment of grafting.
4. Identification and marking of trees (juvenile plants) to be grafted according to the experimental design.
5. Data processing and monitoring.
6. Participation in promotion and dissemination actions of the maritime pine genetic improvement program for resin production.

**Generic scientific area:** *Agriculture and Forest Sciences*

**Specific scientific area:** *Forest Sciences*

**Admission requirements:**

According to Article 3 of the Research Fellowship Regulation of the Polytechnic Institute of Coimbra approved through Dispatch No. 5963/2020, published in “Diário da República”, 2<sup>nd</sup> serie of June 1, 2020, candidates must:

- **possess a graduated degree in the field of the specific scientific area: Forest Sciences.**
- **prove that they are enrolled in a master's or in an integrated master's degree in the field of Forest Sciences or enrolled in non-conferring courses of academic degree integrated in the educational project of a higher education institution.**
- **have experience in the Functional Contents of the Operation and Domain in the application of techniques and protocols in the field and laboratory:**
  - a. Identification and characterization (phenotypic, forest inventory and georeferencing) of the selected plants and check trees, for subsequent harvest of plant material
  - b. Collection of plant material, identification and processing for transport and subsequent DNA extraction and molecular characterization
  - c. Collection of plant material propagules, “garfos”, identification and processing for transport and subsequent establishment of grafting.
  - d. Identification and marking of trees (juvenile plants) to be grafted according to the experimental design.
  - e. Data processing and monitoring.

- f. Participation in promotion and dissemination actions of the maritime pine genetic improvement program for resin production.

**Work plan:**

The work plan will be to develop:

- Previous office work: Identification of maritime pine stands, by region of origin and according to forest perimeter areas.
- In the field: forest inventory, phenotypic characterization, georeferencing of stands and selected trees, tree marking; harvesting plant material for DNA extraction, for molecular characterization.
- In the field: identification of young trees for grafting according to the experimental design.
- In the field: collection of adult vegetative propagules, “*garfos*”, on plants previously identified and marked in different regions of provenance and in areas of forest perimeters.
- In the office: data entry, data processing, transfer of field data to geographic information systems, GIS and dissemination of results

**Objectives to be accomplished by the candidate:**

1. Identification and characterization (phenotypic, forest inventory and georeferencing) of the selected plants and check trees, for subsequent harvest of plant material.
2. Collection of plant material, identification and processing for transport and subsequent DNA extraction and molecular characterization.
3. Collection of plant material propagules, “*garfos*”, identification and processing for transport and subsequent establishment of grafting.
4. Identification and marking of trees (juvenile plants) to be grafted according to the experimental design.
5. Data processing and monitoring. Transferring information from the field to GIS’s.
6. Participation in promotion and dissemination actions of the maritime pine genetic improvement program for resin production.

**Duration of the grant:**

The grant will last for 12 months, under exclusivity, according to the Research Grant Regulation of the Polytechnic Institute of Coimbra, through Dispatch No. 5963/2020, published in “*Diário da República*”, 2<sup>nd</sup> serie of June 1, 2020, scheduled to begin February 1st, 2024.

**Monthly Maintenance Allowance:**

The Monthly Maintenance Allowance corresponds to the basic value of **930.98 euros per month**, according to the table of grants of FCT, I.P. in the country (Appendix I - Table of monthly maintenance allowances for the FCT I.P. Research Grant Regulation): <http://www.fct.pt/apoios/bolsas/valores>. with the payment being made monthly by bank transfer.

To this amount is added the Voluntary Social Insurance corresponding to the 1<sup>st</sup> tier, if the applicant chooses to register, and Personal Accident Insurance.

**Host institution and scientific supervision:**

The work will be carried out at the ESAC and in the field, under the scientific supervision of Maria Filomena Figueiredo Nazaré Gomes.

**Evaluation criteria:**

The evaluation of the applications will focus on the merit of the candidate, by applying the following parameters according to the following formula:

Assigned note (from 0 to 100) =  $(0,25 * C1 + 0,25 * C2 + 0,25 * C3 + 0,25 * C4) * F1 * F2 * F3$

C1 - Experience in forest inventory, geo-referencing, phenotypic characterization of forest species, and in collecting plant material and mycorrhizae for propagation.

C2 - Experience in the forest nursery: processing fruits for seed extraction, plant production (seminal and cuttings) and cultural treatments.

C3 - Experience in harvesting plant material and processing it for DNA extraction or for subsequent use as vegetative propagules, “*garfos*”, for grafting.

C4 - Experience in monitoring trials installed in the nursery and in the field and in setting up field trials in complete and randomized blocks, according to a previously established experimental design.

Weighting factors F1, F2 and F3 are defined as follows:

F1 - Area of Study / Training:

F1 = 1,0 Field of Study / Training in the specific scientific area: Forestry Sciences.

F1 = 0,5 Area of Study / Training in the general scientific area: Agriculture

F1 = 0,1 Area of Study / Training in other scientific area

F2 - Experience in the application of the techniques and protocols of the activities to be carried out and indicated above:

F2 = 1.0 for work experience of more than 36 months

F2 = 0.5 for work experience equal to or greater than 12 months

F2 = 0.3 for curricular internship experience equal or superior to 6 months

F2 = 0.1 for training within the curricular area.

F3 - Driver's license and knowledge of the Portuguese language:

F3 = 1.0 with driver's license and knowledge of Portuguese language;

F3 = 0.3 with knowledge of Portuguese, but no driving license;

F3 = 0.1 with driving license and no knowledge of Portuguese.

**Composition of the Jury:**

The Selection Panel is composed by the following elements: President: Maria Filomena Figueiredo Nazaré Gomes; Effective members: Isabel Maria Nunes da Rosa Dias Duarte; Maria Manuel Balseiro Vidal Substitute members: Joaquim Manuel Sande Silva and Teresa Maria Pinto Coelho Amado Vasconcelos.

**Documents to be submitted:**

Applications should include the following documents:

- Duly completed application form, available on the website dedicated to this competition procedure at [https://www.ipc.pt/bupc/concursos/form/concursos\\_bolseiros](https://www.ipc.pt/bupc/concursos/form/concursos_bolseiros) , duly completed;
- Elements of the National Identity Card/Citizen Card/Passport/Visa/Title of Residence; Tax Identification Number (NIF)
- Documents proving that the candidate meets the conditions defined in the admission requirements, namely, 1) certificate of qualifications and 2) certificate of enrolment in Master's in Forestry Sciences or in courses not leading to an academic degree integrated in the educational project from an institution of higher education.
- *Curriculum Vitae* of the candidate, in Portuguese or in English.
- Letter of reference or recommendation, including the contact details of the author(s) of the recommendation.

The above-mentioned documents, to be submitted as an application, must be submitted by the deadline established for this purpose in the present opening notice.

None of the previously referred documents can be submitted after the deadline presented in this scholarship offer.

Applications from holders of foreign academic degrees will only be considered with proof of recognition of a foreign degree in Portugal

**Deadline for receipt of applications:**

The call is open during 10 working days from 13/11/2023 to 24/11/2023.

Candidates must access and register on the website [https://www.ipc.pt/bupc/concursos/form/concursos\\_bolseiros](https://www.ipc.pt/bupc/concursos/form/concursos_bolseiros) to submit the application, selecting the procedure for which they intend to apply.

Applications must be delivered exclusively in digital format, in portable document format (pdf), with the exception of documents whose delivery is scheduled in other digital formats.

Application instructions are completed by filling in the sections available at the aforementioned email address.

When formalizing the application, if it contains a classified document that reveals commercial or industrial secrets, or secrets relating to literary, artistic or scientific property, the candidate must expressly indicate such reservation, under penalty of the work in question being freely accessed by any one of the other candidates, in consultation with the process.

When submitting the application, the candidate must provide the data strictly necessary for the purpose, under the terms of this public notice, and must hide personal data that may exist in the documentation submitted, otherwise these data may be freely accessed by any of the other candidates, in the process query.

**Applicable legislation and regulations:**

Research Fellowship Holder Statutes, approved by Law No. 40/2004, of August 18 (Statute of the Scientific Research Fellow) amended and republished by Decree-Law No. 202/2012, of August 27, updated by: Decree-Law No. 233/2012, Law No. 12/2013, Decree-Law No. 89/2013, and Decree-Law No. 123/2019; the Regulation of

Grants and Research of the Foundation for Science and Technology in force (Regulation No. 950/2019, of December 16, amended by Regulation No. 643/2021 of July 14) and the Research Grantee Regulation of the Polytechnic Institute of Coimbra, approved through dispatch No. 5963/2020, published in “Diário da República”, 2<sup>nd</sup> serie of June 1, 2020.

**Communication of results:**

Results of the evaluation will be published no later than 90 working days after the deadline for submission of applications.

Results will be listed by ordered alphabetically, posted in the showcase allocated to ESAC Human Resources, in the building B of Coimbra Polytechnic Agriculture School, all candidates are notified, for the purposes of prior hearing of interested parties, by e-mail.

If the result is unfavorable to the granting of the requested grant, the candidates have a period of 10 working days, after the disclosure of results, to give their opinion, wanting, in the pre-hearing of interested parties, in accordance with the provisions of the Code of Administrative Procedure.

Where the number of interested parties to be heard is so high that the prior hearing of interested parties becomes impractical, it is replaced by public consultation, carried out in accordance with the terms and within the time limits set out in Article 37(2) of Decree-Law No. 63/2019 of May 16.

The final decision shall be taken no later than 60 working days after the conclusion of the prior hearing of interested parties or public consultation.

The final decision can be contested, having 15 working days for this purpose, by sending to the President of the Jury the corresponding claim or appeal to the President of the IPC within 30 working days, both after notification.

For more information contact: the President of the Jury, by e-mail: [fgomes@esac.pt](mailto:fgomes@esac.pt).

The following annexes contain the models of the grant contract and the final reports to be drawn up by the grantee and the scientific advisor in accordance with the IPC Regulation (DR, No. 106 of 1 June 2020).

October 25<sup>th</sup>, 2023

**ATTACHMENTS**

**ANNEX I - Contrato de bolsa de investigação**

Entre as partes abaixo designadas:

1.º Instituto Politécnico de Coimbra (IPC), com sede na Rua da Misericórdia, Lagar dos Cortiços — S. Martinho do Bispo, 3045-093 Coimbra, com o número de identificação de pessoa coletiva 600027350, representada neste ato por ..., na qualidade de Presidente, adiante designada por primeiro outorgante; e

2.º ... (nome do bolseiro), com o ... (documento de identificação) n.º ..., válido até ..., contribuinte n.º ..., beneficiário da Segurança Social n.º ... (se aplicável), residente em ..., adiante designado por segundo outorgante;

É celebrado de boa-fé, e reciprocamente aceite, o presente contrato de bolsa de investigação, ao abrigo do Regulamento de Bolseiro de Investigação do IPC, que se rege pelas cláusulas seguintes:

**Cláusula 1.ª**

O primeiro outorgante compromete-se a conceder ao segundo outorgante uma bolsa de investigação de (BII, BI e BPD) com a referência... pelo período de... meses, eventualmente renovável nos termos previsto no Regulamento de Bolseiro de Investigação do IPC.

**Cláusula 2.ª**

O segundo outorgante obriga-se a realizar o plano de atividades, conforme descrito no processo de candidatura, a partir da data de início nele referida e em regime de dedicação exclusiva, nos termos do artigo 19.º do Regulamento de Bolseiro de Investigação do IPC.

**Cláusula 3.ª**

O segundo outorgante realiza os trabalhos na ... (UO/UOI), que funciona como entidade acolhedora/entidade financiadora, tendo como orientador (a) científico o Doutor (a) ...

**Cláusula 4.ª**

O montante da bolsa é de... € mensais, a pagar pelo 1.º outorgante por transferência bancária.

Cláusula 5.ª

O primeiro outorgante poderá rescindir o presente contrato nos casos a seguir indicados:

- a) Incumprimento grave e reiterado dos deveres do segundo outorgante, por causa que lhe seja imputável, designadamente não atingir os objetivos estabelecidos no plano de atividades aprovado;
- b) Quando se verificar que o bolseiro prestou falsas declarações.

Cláusula 6.ª

Sem prejuízo do disposto na cláusula anterior, este contrato cessa automaticamente com a conclusão do plano de atividades, com o decurso do prazo pelo qual a bolsa é atribuída, com a revogação por mútuo acordo ou alteração das circunstâncias, com a constituição de relação jurídico-laboral com a entidade acolhedora.

Cláusula 7.ª

O bolseiro tem de apresentar até 60 dias após o termo da bolsa um relatório final das atividades desenvolvidas, incluindo as eventuais comunicações e publicações resultantes da atividade como bolseiro.

Cláusula 8.ª

É subsidiariamente aplicável o Estatuto de Bolsheiro de Investigação, aprovado pela Lei n.º 40/2004, de 18 de agosto, na sua atual redação, e o Regulamento de Bolsas de Investigação do IPC.

Cláusula 9.ª

Convenciona-se, por acordo entre as partes, que em caso de necessidade e para dirimir todas as questões emergentes do presente contrato será competente o Tribunal da Comarca de Coimbra, com expressa renúncia a qualquer outro.

Cláusula 10.ª

Qualquer alteração a introduzir no contrato no decurso da sua execução ou prorrogação do mesmo será objeto de acordo prévio.

Cláusula 11.ª

As partes outorgantes declaram estar de acordo com o clausulado neste contrato, que é feito em duplicado, todas

as cópias valendo como originais, ficando um exemplar na posse de cada um dos outorgantes.

Coimbra, ... de ... de ...

O Primeiro Outorgante, ...

O Segundo Outorgante, ...



**ANNEX II - Final report to be prepared by the grantee**

Exmo. Sr. Presidente do Politécnico de Coimbra

... (nome completo do Bolseiro), com o ... (documento de identificação) n.o ..., vem, de acordo com o artigo 25.o do Regulamento de Bolseiro de Investigação do Instituto Politécnico de Coimbra, apresentar o seu Relatório Final referente à Bolsa de ... (identificação do tipo de Bolsa), na área de ... (identificação da área da Bolsa), cujos trabalhos foram desenvolvidos no (a) ... (entidade acolhedora onde foram desenvolvidos os trabalhos), e tendo sido coordenado pelo Ex. Prof. (a) doutor (a) ...

(Neste documento serão focados os aspetos a seguir referidos)

- 1 — Apresentação do objeto da Bolsa e dos respetivos objetivos.
- 2 — Identificação cronológica dos trabalhos desenvolvidos no âmbito da Bolsa supra referenciada.
- 3 — Apresentação dos resultados alcançados.
- 4 — Autoavaliação do Bolseiro.

Anexos a apresentar: Comunicações e publicações resultantes da atividade como bolseiro.

Local, ... de ... de ...,

Assinatura do Bolseiro

**ANNEX III - Final report to be prepared by the Scientific Advisor**

Ex.mos (as) Senhores (as)

No âmbito da Bolsa de ... (identificação do tipo de Bolsa), na área de .... (identificação da área da Bolsa), desenvolvida pelo Bolseiro... (identificação do Bolseiro), venho, de acordo com o artigo 25.º do Regulamento de Bolseiro de Investigação do Politécnico de Coimbra, apresentar o devido Relatório Final de Avaliação.

(Neste documento serão focados os aspetos a seguir referidos)

- 1 — Análise crítica do trabalho desenvolvido pelo Bolseiro.
- 2 — Avaliação final do trabalho desenvolvido, com referência expressa aos indicadores relativos aos critérios de avaliação definidos no artigo 17.o do Regulamento.

Local, ... de ... de ...,

Assinatura do Orientador Científico