

Announcement of a RESEARCH GRANT (BI)

Reference: IIA – LIC-2 – Forest 4 Future

Competition is open for the award of a Research Grant, under the project " **Forest 4 Future / F4F** ", Nº Cand Centro-08-5864-FSE-000031, of the Polytechnic Institute of Coimbra, co-financed by the **EAFRD - European Agricultural Fund for Rural Development**, through the Portugal Partnership Agreement 2020, **CENTRO2020 Programme**, under the following conditions:

The activities to be executed are the following:

- 1) Harvest of plant material (seeds and propagules), transport and processing; seed conservation and pre-germination treatments to break dormancy;
- 2) Harvest of carpophores and subsequent establishment of mycorrhizae under in vitro and nursery conditions;
- 3) Micropropagation of selected forest species;
- 4) Field trials establishment in complete, randomized blocks, and subsequent monitoring;
- 5) Carrying out maintenance operations in the nursery and in the laboratory (media culture preparation, cultures multiplication and mycelium of different strains of mycorrhizal fungi);
- 6) Data processing and results analysis, using a statistical program

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*", 2nd serie of June 1, 2020, candidates must:

- possess the graduated degree in the field of Forest Sciences;
- prove that they are enrolled in a master's or in an integrated master's degree in the field 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 both the laboratory and field:
 - a) Harvesting of plant material and processing; seed conservation and pre-germination treatments;
 - b) Carpophores harvesting for the establishment of mycorrhizae under in vitro and ex vitro conditions;
 - c) Micropropagation of selected forest species;
 - d) Field trials establishment in complete and randomized blocks and monitoring;
 - e) Carrying out maintenance operations in the nursery and in the laboratory;
 - f) Data processing and statistical analysis of the results.

Work plan:

The work plan will be to develop:

- In the field: harvesting and transport of plant material; and ulterior field trials establishment

Cofinanciado por:



- In the nursery: processing of material for vegetative propagation (cuttings) and seedlings from plant material harvested in the field; ex vitro mycorrhization; acclimatization of micropropagated plants;
- In the laboratory: multiplication of cultures of selected clones and strains of mycorrhizal fungi; in vitro mycorrhization
- In the office: analysis and statistical treatment of results; and results dissemination.

Objectives to be accomplished by the candidate:

- 1) Harvest of plant material for plant production (cuttings and seedlings) and subsequent field trials establishment, in different soil and climate conditions;
- 2) Mycorrhizal fungi cultures multiplication and collection of carpophores, for the production of mycorrhizal plants (in vitro and ex vitro), more resilient to climate change; Evaluation of different mycorrhization methods;
- 3) Evaluation of different cultural practices (mulching), in the field, to increase the plants survival and their resilience to environmental conditions;
- 4) Analysis and statistical treatment of results and their subsequent dissemination.

Duration of the scholarship:

The scholarship 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*”, 2nd serie of June 1, 2020. The scholarship will last for the period from March 14, 2022 to March 13, 2023, not exceeding the end date of the project, if this is earlier than the end date of the 12-month period.

Monthly Maintenance Allowance:

The Monthly Maintenance Allowance corresponds to the basic value of 875.98 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 1st tier, if the applicant chooses to register, and Personal Accident Insurance.

Host institution and scientific supervision:

The work will be carried out at ESAC – Coimbra Polytechnic Agriculture School, under the scientific supervision of Professor 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 harvesting plant material, processing and producing plants in a nursery;
- C2 – Experience in the establishment of mycorrhizae in in vitro and ex vitro conditions;
- C3 – Experience in the multiplication of woody species and mycelium under in vitro conditions;
- C4 – Experience in the establishment of field trials and statistical treatment.

Cofinanciado por:



The weighting factors F1, F2 and F3 are defined as follows:

F1 - Study / Training Area:

F1 = 1.0 in the areas Degree in Forest Sciences

F1 = 0.5 for Degree in Agricultural Sciences

F1 = 0.1 for Degrees in other areas.

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 24 months;

F2 = 0.5 for work experience for more than 12 months;

F2 = 0.3 for experience in a curricular internship regime;

F2 = 0.1 for training within the curricular area

F3 - Driving license and knowledge of the Portuguese language

F3 = 1.0 with driving license and knowledge of the Portuguese language

F3 = 0.3 with knowledge of the Portuguese language, but without a driving license

F3 = 0.1 with a driving license and no knowledge of the Portuguese language

Composition of the Jury:

The Selection Panel is composed by the following elements:

President: Doctor Maria Filomena Figueiredo Nazaré Gomes; Effective members: Doctor Isabel Maria Nunes da Rosa Dias Duarte; Doctor Maria Manuel Balseiro Vidal; Substitute member: Doctor Joaquim Manuel Sande Silva and Doctor Teresa Maria Pinto Coelho Amado Vasconcelos.

Documents to be submitted:

Applications should include the following documents:

- 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 enrollment in Masters in Forest 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;
- Motivation letter, in Portuguese or in English;
- Letters of reference or recommendation, including the contact details of the authors of the recommendations;
- None of the above-mentioned documents may be submitted after the deadline set for that purpose in this notice of opening.

Deadline for receipt of applications:

The call is open during 10 working days between 15 and February 28 (23:00 – Europe/London).

Applications must be sent exclusively by e-mail to bolsas.investig@ipc.pt, with the subject “**IIA – LIC-2 – Forest 4 Future**”.

Cofinanciado por:



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 Scholarships 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*”, 2nd *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 scholarship, 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.

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).

Coimbra, February, 2022

Cofinanciado por:



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

Cofinanciado por:



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 Bolseiro 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.

Cofinanciado por:



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, ...

Cofinanciado por:



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

Cofinanciado por:



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

Cofinanciado por:

