

## 1 Research Grant Announcement (M/F)

Call open for applications for a research grant within the framework of project rePLANT – Implantação de estratégias colaborativas para a gestão integrada da floresta e do fogo, with the reference POCI-01-0247-FEDER-046081, co-financed by the European Regional Development Fund (ERDF), through the Operational Programme for Competitiveness and Internationalization (COMPETE 2020), under the PORTUGAL 2020 Partnership Agreement, under the following conditions:

**Scientific Area:** Industrial Engineering and Management

**Admission requirements:** Candidates who cumulatively meet the following two requirements may apply for this grant:

**Requirement 1:**

- Be a student enrolled in a doctoral program in industrial engineering and management or related field, a requirement to be duly proven at the time of signing the contract.

**and**

**Requirement 2:**

- Hold a master's degree in industrial engineering and management or related field.

*If the degree has been awarded by a foreign higher education institution, it must comply with the provisions of the Decree-Law no. 66/2018, of august 16th, and any formalities established there must be fulfilled until the time of signing the contract.*

**Activity Outline:**

As part of the rePLANT project, the fellow will have to carry out tasks with the aim of developing and adapting mathematical models with the goal of making forest logistics sustainable. Namely,

- map all the objectives, constraints and decisions of this forest problem;
- analyze the suitability of different modeling techniques such as stochastic programming and robust programming;
- implement an optimization model to achieve the above-mentioned goals.

The result of these tasks will consist of a functional model that will allow supporting decisions around forest logistics.

**Legislation and regulations:** Law N.º. 40/2004, of 18th August, in its current wording (Statutes of Scientific Research Fellow) and Regulation of Research Grants of Fundação para a Ciência e a

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Tecnologia, in force (<https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>) and Regulation of Research Grants of University of Porto.

**Work place:** The work will be developed at the Department of Industrial Engineering and Management of the Faculty of Engineering of the University of Porto (FEUP), under the scientific supervision of Professor Pedro Sanches Amorim.

**Grant duration:** Initial duration of 12 months, with the predicted starting date in **october 2021**, on an exclusive basis eventually renewable but never exceeding the end of the project.

**Stipend:** The grant stipend amounts to 1.104,64€ according to the table of values of the grants awarded directly by FCT, I.P. in the Country <https://www.fct.pt/apoios/bolsas/valores>

The payment will be made by bank transfer.

**Selection procedure:**

The curriculum of the candidates (60%) will be evaluated based on the merit of the candidate using the following criteria:

- a) Academic background (Master's degree in industrial engineering and management or related - 6 points; Other Master's degrees - 2 points);
- b) Research experience in the project area - 5 points; in areas related to the project - 3 points; outside the project area - 1 point.
- c) Scientific publication in peer-reviewed journal - 4 points; professional research experience in industrial engineering - 3 points; conference publication - 2 points.

The curriculum of each candidate will be evaluated in a 1-20 points scale. Candidates with less than 16 points will not be invited for the interview (40%).

In the interview topics related with the work plan, experience, motivation and the candidate's CV will be discussed with the invited candidates. The candidate's interview will be evaluated in a 1-20 points scale.

**Selection Jury:**

President: Professor Doutor Armando Jorge Miranda de Sousa

Effective member: Professor Doutor Jorge Daniel Grenha Luís Teixeira

Effective member: Professor Doutor Pedro Sanches Amorim

Supplementary member: Doutor José Pedro Coelho Rodrigues

Supplementary member: Doutor Filipe Neves dos Santos

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**Advertisement of final decision:** The results of the evaluation will be released to the candidates by email to the email address indicated in the application process.

**Deadline for applications and form of presentation of the applications:**

The call is open from 13-10-2021 to 26-10-2021 (until 23h59m, GMT time).

Applications must be formalized by email to [app@fe.up.pt](mailto:app@fe.up.pt) and to [recursoshumanos@fe.up.pt](mailto:recursoshumanos@fe.up.pt), clearly stating the reference **FEUP-rePLANT-BM-Inspiração** and including the following pdf documents: Motivation letter, Copy of certificates evidencing academic degree (referring the classification of each separated or integrated degree)Curriculum Vitae, and other documents considered relevant by the applicant.

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