

1 Research Initiation Grant (M/F)

Call open for applications for a Research Initiation Grant within the framework of Agenda “SMART WAGONS – Development of Production Capacity in Portugal of Smart Wagons for Freight”, nr. C644940527-00000048, investment project nr. 27, of the Incentive System “Agendas for Business Innovation”, financed by the Recovery and Resilience Plan (PRR) and by European Funds NextGeneration EU, under the following conditions:

Scientific Area: Mechanical or Materials Engineering

Admission requirements:

- To be a student enrolled in a higher technical professional course, a bachelor's degree, in an integrated master's degree or in a master's degree, in the area of Mechanical or Materials Engineering or related areas, a requirement to be duly proven at the time of signing the contract.

Or

- To be holder of an academic degree (bachelor's degree) enrolled in a non-academic degree course integrated in the educational project of a higher education institution, developed in association or cooperation with one or more R&D units, a requirement to be duly proven at the time of signing the contract.

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.

In accordance with article 5º of the Regulation of Research Grants of Fundação para a Ciência e a Tecnologia, I.P.:

- the scholarship can only be awarded to those who do not exceed, with this scholarship contract, including possible renewals, an accumulated period of one year in that typology of scholarship, followed or interpolated.
- The grant cannot be awarded to anyone who has already benefited from research grants directly or indirectly funded by FCT, awarded under the terms of Research Grant Holder Status

Activity Outline: The recruitment of this research position aims at the development of R&D work in the scope of the area of Mechanical or Materials Engineering, aiming to develop the design of a freight

wagon, namely in supporting the project of the manufacturing process wagon, in the scope of the WP 1- Design e WP2- Manufacturing.

Legislation and regulations: Law Nº. 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 Tecnologia, in force (<https://www.fct.pt/financiamento/programas-de-financiamento/bolsas/>) and Regulation of Research Grants of University of Porto, in force.

Work place: The work will be developed at the Department of Metallurgical and Materials Engineering of the Faculty of Engineering of the University of Porto (FEUP), under the scientific supervision of Professor Laura Maria Melo Ribeiro.

Grant duration: Initial duration of **6 months**, with the predicted starting date in **April 2024**, on an exclusive basis eventually renewable but never exceeding the project duration. The eventual renewal of the scholarship will be carried out as determined in article 5º of the Research Grants Regulation of the Foundation for Science and Technology, I.P.

If it is not possible to ensure the duration of 6 months estimated in the previous paragraph, this duration will be adjusted according to the end date of the project, and provided that the minimum duration of 1 consecutive month is guaranteed, in accordance with paragraph 3 of article 5 of the Research Grant Regulations of the Foundation for Science and Technology, I.P.

Stipend: The grant stipend amounts to 601,12 € according to the table of values of the grants awarded directly by FCT, I.P. in the Country (<https://www.fct.pt/financiamento/programas-de-financiamento/bolsas/>). The payment will be made by bank transfer.

Selection procedure:

Curricular evaluation which will focus on the merit of the candidate and the following criteria will be valued:

1. Academic training in the area of Mechanical or Materials Engineering - 5 points; related areas – 3 points; other areas - 0 points.
2. Registered in the master’s program with availability to make the master’s thesis in the topic of the grant - 5 points; Registered in the master’s program but without availability to make the master’s thesis in the topic of the grant - 3 points; other condition - 0 points;

3. Experience in mechanical and microstructural characterization of steels and joining processes - up to 5 points; frequency and approval in some Curricular Units that partially covers the topic of this grant - 3 points; without experience - 0 points;

The two best ranked candidates, according to the above criteria, will be called for an interview. This will have an additional score of up to 5 points.

If the minimum score of 14 points is not reached by any of the candidates, the scholarships may not be awarded.

Selection Jury:

President: Doctor Pedro Aires Moreira Montenegro Marques e Almeida,

Effective member: Professor Laura Maria Melo Ribeiro,

Effective member: Professor Manuel Fernando Gonçalves Vieira,

Supplementary member: Professor Abílio Manuel Pinho de Jesus,

Supplementary member: Professor José António Fonseca de Oliveira Correia,

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 **01-04-2024 to 12-04-2024** (until 23h59m, GMT time).

Applications must be formalized by email to paires@fe.up.pt and to recursoshumanos@fe.up.pt, clearly stating the reference **FEUP-- SmartWagons_BII_27_2** and including the following pdf documents: Motivation letter, Copy of certificates evidencing academic degree (referring to the course average - for each cycle or integrated cycle - and grades in the course units) detailed Curriculum Vitae, Declaration on honor that the candidate fulfills the requirement contained in article 5 of the Regulation for Research Grants of the Foundation for Science and Technology, I.P. (model below) and other documents considered relevant by the applicant.

Declaration on honour

I, (identification of the scholarship holder), holder of the Citizen Card / Visa / Residence Permit no. valid until _____, declare under honour, to be in the conditions of nos. 4 and 5 of article 5º of the Research Grants from FCT, IP - Regulation No. 950/2019, of 16 December.

Oporto, __/__/__

Signature

(scholarship holder)