

**NOTICE OF COMPETITION FOR A RESEARCH SCHOLARSHIP – MASTER’S STUDENTS IN THE
AREA OF MECHANICAL ENGINEERING, PRODUCTION ENGINEERING OR BIOMEDICAL
ENGINEERING_ AERO.NEXT AGENDA-Portugal – PROAERO3D PROGRAM**

Bearing in mind Regulation No. 437/2020 on Research Grants of the Polytechnic Institute of Setúbal, published in the 2nd series of the Official Gazette No. 83, of April 28, it is made public that, by order of 20-02-2025 from the Vice-President of IPS, Professor Luísa Margarida Cagica Carvalho, acting as a substitute for the President under Order nº 12673/24, published in Diário da República nº 206, 2nd series of October 23, a competition is open for the award of a **Research Grant (BI) aimed at carrying out R&D activities for students enrolled in a master’s degree**, in the area of Mechanical Engineering, Production Engineering or Biomedical Engineering- Aero.Next Agenda Portugal – ProAero3D Program, financed through Program of Recovery and Resilience (PRR) **with the period for receiving applications from 10-03-2025 to 21-03-2025**, in accordance with the following conditions:

- 1. Duration of the Scholarship** - The scholarship lasts for 9 months, as long as it does not exceed the final date of execution of the respective project.
- 2. Recipients** - The scholarship is intended for candidates with the following profile:
 - Students enrolled in a master’s degree in Mechanical engineering, Production engineering or Biomedical engineering;
 - Mastery of the Portuguese language, spoken and written;
 - Mastery of the English language, spoken and written.
- 3. Financial component** - According to the Table, contained in Annex I to the FCT Scholarship Regulation, approved by Regulation No. 950/2019, published in the Diário da República, 2nd series of December 16 (updated version), the value of the Scholarship corresponds to **€1040.98** being paid monthly, by bank transfer.
- 4. Workplace**- The work will be carried out, on an exclusive basis, in the Department of Mechanical Engineering of the Escola Superior de Tecnologia de Setúbal, under the scientific guidance of Professor Célio Pina.

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5. Activity plan:

- Bibliographic research;
- Manufacture of filament for 3D printing, Development and 3D printing of 3D printing stamping tools;
- Testing tools in a production environment;
- Support in validating the manufacturing process with polymeric tools, produced by 3D printing, with customers (FAI);
- Preparation of scientific publications;
- In all tasks, support for students is also expected, mainly in undergraduate projects, who will be involved in the project;
- Some of these actions may take place at the facilities of Lauak Setúbal or Lauak Grândola or at those of other partners on the Aero.Next Portugal agenda.

6. Assessment and ranking criteria:

6.1. Curriculum Assessment_ composed by the Degree alignment of the master's study plan or the candidate's profile with the activities to be carried out by the scholarship holder (DA), general analysis of the Curriculum Vitae (CV) and motivation letter (ML) – (scale of 0-10 values).

a) Degree of alignment (DA) with the activities to be carried out by the scholarship holder (weighting 0.30) - maximum 10 values

Fully aligned	10 val.
Partially aligned	7 val.
Not aligned	0 Val.

b) General analysis of the Curriculum Vitae (CV) (weighting 0.35) - maximum 10 values

Very good	10 val.
Good	7 val.
Satisfies	5 val.
Does not satisfy	0 val.

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- c) General analysis of the Motivation Letter (CM) (weighting 0.35) - maximum 10 values

Very good (presents motivational factors related to the activities to be performed as a scholarship holder duly framed in the role)	10 val.
Good	7 val.
Satisfies	5 val.
Does not satisfy	0 val.

6.2. INTERVIEW (scale of 0-10 values)

In the interview, 4 evaluation parameters are defined and their classification results from the following formula: $E=MI+TTK+CS+VEF$

- Motivation and Interest (MI)
- Theoretical and Technical Knowledge (TTK)
- Critical Sense (CS)
- Verbal Expression and Fluency, including in English (VEF)

Each parameter is valued from 0 points to 2.5 points according to the candidate's demonstration of competence or behavior.

6.3. CALCULATION OF THE FINAL CLASSIFICATION

The classification of each candidate will be calculated by the sum of the values obtained in the CURRICULAR ASSESSMENT and the SELECTION INTERVIEW

- 6.4.** The ordering of candidates will be expressed on a scale of 0 to 20 values, rounded to the nearest tenth, according to the value attributed to the criteria previously specified. In the event of a tie, the one who achieved the highest rating in the Interview component will be used as the tiebreaker.
- 6.5.** For the candidate to be admitted, they must achieve a minimum total classification of 9.5 values and must have obtained at least half of the maximum possible in the Curricular Assessment component. The Selection Interview is a mandatory and eliminatory selection method.

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- 6.6.** In the event of a tie, the one who achieved the highest rating in the Interview component will be used as the tiebreaker.
- 6.7.** Based on the final ranking list, a recruitment reserve will be created, which will be used for the eventual hiring of approved candidates in the event of withdrawal of those placed in positions eligible for hiring.
- 7. Application documents** - The application must be accompanied by the following documentation:
- Letter of motivation addressed to the President of the IPS;
 - Candidacy form;
 - Detailed CV;
 - Certificates of academic qualifications held;
 - Proof of student status for the course and degree attended at a Portuguese Higher Education Institution, issued by the respective academic services;
 - Proof of residence permit in Portugal (for applicants without Portuguese citizenship).
- 8. How to submit your application** - The application must be made by filling out the standard form, available on the IPS website, at www.ips.pt, in the Central Services/DICI/Research Grants tabs, and sent to Bolsas.investigacao.dgp@ips.pt or through the address, Campus do IPS, Estefanilha, 2910 761 Setúbal, until the application deadline.
- 9. The jury is made up of:**
- President**
- Professor Doutor Célio Gabriel Figueiredo Pina, Professor Coordenador da Escola Superior de Tecnologia do Setúbal/IPS.
- Effective vowel**
- Professor Doutor Vitor Manuel Caetano Alcácer, Professor Adjunto da Escola Superior de Tecnologia do Setúbal/IPS;
 - Professor Doutor José Filipe Castanheira Pereira Antunes Simões, Professor Coordenador da Escola Superior de Tecnologia do Setúbal/IPS.

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Substitute vowel

- Professor Doutor Nuno António Neves Nunes, Professor Adjunto da Escola Superior de Tecnologia do Setúbal/IPS.

10. Applicable legislation and regulations - The scholarship is awarded under Law No. 40/2004 of August 18, in its updated version (Statute of the Scientific Research Fellow) and Regulation of Scholarships and Research of the Foundation for Science and Technology, available for consultation at <https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>

Polytechnic Institute of Setúbal.

The President,