

**NOTICE OF COMPETITION FOR THREE RESEARCH GRANTS – MASTERS STUDENTS IN THE
AREA OF COMPUTER ENGINEERING – DRIVOLUTION PROJECT**

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 14-11-2025 from the President of the IPS, a competition is open for the award of **three Master Research Grant (MRG) aimed at carrying out R&D activities** for candidates **enrolled in a Master Degree, in the area of Computer Engineering**, within the scope of the Drivolution project, financed through IAPMEI **with the period for receiving applications from 21-11-2025 to 05-12-2025**, in accordance with the following conditions:

- 1. Duration of the Scholarship** - The scholarship lasts for 6 months, provided that it does not exceed the final date of project completion.
- 2. Recipients** - The scholarship is intended for candidates with the following profile:
 - Enrolled in a master's degree in computer engineering or related fields;
 - Knowledge of Extended Reality application development and/or knowledge of machine learning, information visualization, and data analysis algorithms and methods;
 - Sense of responsibility and ability to communicate and integrate into multidisciplinary work teams.
- 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 exclusively at the Escola Superior de Tecnologia de Setúbal under the scientific supervision of Professor Rui Madeira.
- 5. Activity plan** - Work carried out within the scope of activity "A4. Predictive maintenance and interactive augmented reality-based manuals" of the Drivolution project, which may include the following tasks:
 - T1. PM model design, analysis, testing, and model creation and T2. Implementation of the PM moduleWP2 – AI Powered Applications and/or;

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AREA OF COMPUTER ENGINEERING – DRIVOLUTION PROJECT**

Or in the task:

- T3. Development of Intelligent User Manuals based on Augmented Reality following a User-centred design, with the development of manuals or the integration of an LLM chatbot to support human operators.

And also in:

- T4. Integration in the platform, either of the work developed in T1 and T2 or in T3.

In addition to tasks such as:

- Participation in meetings and project dissemination activities (e.g., writing scientific papers)

6. Assessment and ranking criteria:

6.1. Curriculum and Motivational Letter Assessment (CV+ML) – (scale of 0-15 values)

a) Academic training (weighting of 0.30) - maximum 15 values

Enrolment in a master's degree course in the field of Computer Engineering or Software Engineering	15 val.
Enrolment in a master's degree course in related fields	5 val.

b) Analysis of knowledge in international transport systems in the port area (weighting of 0,20) - maximum 15 values

Solid knowledge of Extended Reality application development	10 val.
Solid knowledge of machine learning, information visualization, and data analysis algorithms and methods	10 val.
Basic knowledge of Extended Reality application development	0 val.
Basic knowledge of machine learning, information visualization, or data analysis algorithms and methods	0 val.

**NOTICE OF COMPETITION FOR THREE RESEARCH GRANTS – MASTERS STUDENTS IN THE
AREA OF COMPUTER ENGINEERING – DRIVOLUTION PROJECT**

c) General analysis of the Curriculum Vitae (weighting 0,30) - maximum 15 values

Very good	15 val.
Good	10 val.
Satisfies	5 val.
Does not satisfy	0 val.

6.2. Selection Interview (scale of 0-5 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)
- Written Expression and Fluency (WEF)

Each parameter is valued from 0 points to 1.25 points according to the candidate's demonstration of competence or behavior.

6.3. The classification of each candidate will be calculated by the sum of the values obtained in the **CURRICULAR EVALUATION** and in the **MOTIVATION LETTER**.

6.4. The classification of each candidate will be calculated by the sum of the values obtained in the selection methods specified in the previous point and the ordering of the candidates will be expressed on a scale of 0 to 20 values, rounded to the nearest tenth.

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 score in Curriculum Assessment method.

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.

**NOTICE OF COMPETITION FOR THREE RESEARCH GRANTS – MASTERS STUDENTS IN THE
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6.7. Based on the final ranking list, a recruitment reserve will be created, which will be used to potentially hire successful candidates in the event of withdrawal from 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 (signed)
- Detailed CV;
- Certificates of qualifications for academic degrees 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, 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

Doutor Rui Neves Madeira, Professor Adjunto da Escola Superior de Tecnologia de Setúbal/IPS.

Effective vowels

Doutor Pedro Albuquerque Santos, Professor Adjunto da Escola Superior de Tecnologia de Setúbal/IPS;

Doutora Patrícia Macedo, Professora Adjunta da Escola Superior de Tecnologia de Setúbal/IPS.

Substitute members

Doutor Miguel Lopez, Professor Coordenador da Escola Superior de Tecnologia de Setúbal/IPS;

**NOTICE OF COMPETITION FOR THREE RESEARCH GRANTS – MASTERS STUDENTS IN THE
AREA OF COMPUTER ENGINEERING – DRIVOLUTION PROJECT**

Doutora Paula Miranda, Professora Adjunta da Escola Superior de Tecnologia de 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>

Instituto Politécnico de Setúbal.