PUBLIC NOTICE

Call for allocation of a Scientist Scholarship

Reference: BII/FhP-26/01

The call for allocation of a Research Integration Grant for a Student attending a Bachelor's degree is open and subject to the following conditions:

1. **General scientific field:** Engineering.

2. **Specific scientific field:** Bioengineering.

3. **Admission Requirements**:
   i) Student attending an academic Bachelor's degree in the scientific field mentioned above.
   ii) Knowledge or experience (preferred) on machine learning or computer vision techniques, and interest in developing such skills.
   iii) Good programming skills (Python and C/C++ preferred).
   iv) Proficiency in English and excellent communication skills and teamwork.

4. **Work Plan**: The selected candidate will join the Intelligent Systems Group and assist in research and development efforts related to controllable generative AI for synthetic image generation.

   4.1. Tasks:

   - Deepen understanding of controllable generative AI concepts and methodologies for synthetic image generation.
   - Design and implement an interactive pipeline for the controllable generation of realistic synthetic images of target insect species on sticky traps, leveraging available open-source interfaces.
   - Investigate user-friendly strategies for interacting with generative inference parameters and control mechanisms tailored to the target agricultural use case, supporting multiple generation modes.
   - Develop a functional demonstration prototype that showcases the capabilities of the interactive generation pipeline, including exploring the integration of generative models developed within the AgriPestForge project.
   - Explore computational approaches for auditing the quality of the synthetic images generated via the developed interactive pipeline.
   - Write comprehensive reports on tested approaches and results. Contribute to scientific publications.

   These research activities are planned to be developed within the framework of project "AgriPestForge – Controllable Generative AI Engine to Expand Automation in Agricultural Pest Detection, with Notice *Concurso de Projetos de IC&DT em Todos os Domínios Científicos* and Project Reference *COMPETE2030-FEDER-00832000 Projeto No. 17029* – Fundação para a Ciência e a Tecnologia".

5. **Applicable law and regulation**: Portuguese Statute of the Scientific Research Scholarship Holder ["*Estatuto do Bolseiro de Investigação Científica*"], approved by Law no. 40/2004, of August 18th, amended by Decree-Law no. 202/2012, of August 27th, Law no. 12/2013, of January 29th, Decree Law no. 89/2013, of July 9th (hereinafter referred to as the "Statute"), Law no. 123/2019, of August 28th and the Research Scholarships' Regulation of Associação Fraunhofer Portugal Research (hereinafter referred to as the "Regulation").

6. **Place of work**: Fraunhofer Portugal AICOS, Porto, Portugal, under the scientific supervision of PhD Luís Rosado.

7. **Scholarship's Duration and Regime**: The scholarship shall have a duration of 9 months, eventually renewable until the term of the project, with an estimated starting date in 1st of March 2026, according to article 13 of the Regulation and article 3 of the Statute, under exclusivity regime, except for the exceptions expressly set out in nos. 3 and 4 of article 5 of the referred Statute.
(https://www.fraunhofer.pt/content/dam/portugal/fhp/careers/grants/Regulamento_Bolsas_Fraunhofer_Portugal_Research_2021.pdf)

8. **Amount of the monthly maintenance allowance**: The amount of the scholarship corresponds to €651,12 as per the table of amounts of the scholarships of Associação Fraunhofer Portugal Research.
(https://www.fraunhofer.pt/content/dam/portugal/fhp/careers/grants/regulamento_bolsas.pdf).
The payment of the scholarship shall be made on a monthly basis, by wire transfer.

9. **Selection Procedures:** The selection procedures to be used shall be made based on the following parameters:
   A. Current average in the Bachelor's degree.
   B. Alignment of academic choices with the work to perform.
   C. Curriculum evaluation in accordance with the objectives of the project.

   The selection parameters shall be given the following percentage weighting: 0,2 x A + 0,3 x B + 0,5 x C.

10. **Composition of the selection panel**:
    1. Inês Nunes de Sousa Soares (PhD; Chairman).
    2. Luís Filipe Caeiro Margalho Guerra Rosado (PhD; Permanent Member).
    3. Maria João Medeiros de Vasconcelos (PhD; Permanent Member).

11. **Publication/notification of the results**: The final evaluation results shall be published in a list ordered by the final score and posted in a visible and public place at Fraunhofer Portugal. All candidates have 10 days to comment. The approved applicant shall be notified by email.

12. **Opening period of the call**: The call is open from 23-01-2026 to 06-02-2026.

13. **Documents and deadlines for application:** Applications must be submitted by means of an application email with the following documents: *Curriculum Vitae*, required qualifications' certificate and other evidencing documents deemed relevant.

    Applications should be delivered during the call's opening period, sent by email with acknowledgment receipt to jobs@fraunhofer.pt, in *pdf* format, until 11:59 p.m. on 06th of February 2026.