

## Call for a Research Scholarship

Call is open for the award of 1 (one) Research Grant under the PTDC/CTM-REF/1008/2020 – FLEXSOLAR – "Flexible Solar Cells of Perovskite Thin Films and Epitaxial Silicon with High Efficiency", for the development of R&D activities to be carried out by PhD students or graduates and masters enrolled in non-academic degree courses, with the financial support of the Foundation for Science and Technology, I.P./ MCTES through national funds (PIDDAC) under the following conditions:

**Scientific Area:** Coatings and Films

### Recipient admission requirements /Profile:

- a) be enrolled in a PhD or be a graduate and master enrolled in a non-academic degree course (Artº 6, nº 1 and Artº 6, nº 2 of the Regulation of Research Grants of the Foundation for Science and Technology, IP – 2019):  
<https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2019.pdf>
- b) not exceed, with the conclusion of the scholarship contract in question, including possible renewals, a cumulative period of 4 (four) years if you are enrolled in a Doctorate and 1 (one) year if you are a master enrolled in a non-academic degree for this type of scholarship ( Artº 6, nº 4, point c) and Artº 6, nº 4, point a) );  
<https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2019.pdf>
- c) Have training in the areas of Materials Engineering, Micro and Nanotechnologies Engineering, Physics Engineering, or other related areas that have given the candidate experience in deposition of Thin Films and Plasma Deposition Technologies.

Candidates who have obtained the degree abroad must have the degree recognized in Portugal, pursuant to Decree-Law No. 66/2018 of August 16.

<https://www.dges.gov.pt/en/pagina/degree-and-diploma-recognition>

**Work plan:** The candidate will develop research work performing the following tasks with the following objectives:

- Deposition of crystalline silicon thin films by epitaxial growth using the plasma-assisted chemical vapor deposition (PECVD) technique.
- Characterization of all materials and devices produced.
- The objective is the development of HIT-type solar cells, using the epitaxially grown silicon layer.

**Applicable legislation and regulations:** Statute of the Scientific Research Grantee, approved by Law No. 40/2004 of August 18, amended and republished by Decree-Law No. 202/2012, of August 27 and amended by Decree-Law No. 233/2012 of 29 October, Law No. 12/2013 of

January 29 and Decree-Law No. 123/2019 of August 28 and The Regulation of Research Grants of the Foundation for Science and Technology, IP - 2019, available in <https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2019.pdf> and <https://dre.pt/application/file/a/127230968>.

**Workplace :** The work will be carried out at UNINOVA's facilities, in other facilities located on the FCT/NOVA Campus and/or in other facilities that may be necessary for its execution, under the scientific guidance of Dr. Hugo Manuel Brito Águas. UNINOVA will be the contracting entity.

**Duration of the grant:** The grant shall last for 6 months, **possibly renewable within the duration of the project**, provided that it does not exceed the period referred to in point (b) of the admission requirements and is scheduled to start in September 2021.

**Monthly maintenance allowance amount:** The amount of the scholarship corresponds to € 1 104.64, according to the table of values of the scholarships awarded directly by FCT, I.P. in the country ( [https://www.fct.pt/apoios/bolsas/docs/Tabela\\_Valores\\_SMM\\_LOE\\_2021.pdf](https://www.fct.pt/apoios/bolsas/docs/Tabela_Valores_SMM_LOE_2021.pdf) ).

The grantee also benefits from personal accident insurance during the period of granting the scholarship and may be reimbursed for voluntary social insurance equivalent to the 1st tier.

The scholarship will be paid monthly on the last business day of each month by bank transfer.

**Application deadline and form of submission of applications:** The competition is open for the period from 16 to 27 August 2021.

Applications must be formalised by submitting the following documentation:

- ... Letter of application;
- ... Curriculum Vitae;
- ... Motivation Letter;
- ... Certificate of Qualifications or declaration of commitment of honor on the ownership of the respective academic degree according to draft available on the UNINOVA website (<https://www.uninova.pt/jobs-opportunities> );  
Upon contracting, the Certificate of Qualifications must be delivered;
- ... Informed consent statement duly dated and signed, according to the draft available on the UNINOVA website (<https://www.uninova.pt/jobs-opportunities> );
- ... Copy of ID;
- ... Other documents attesting to what was reported on the CV.

In the event of contractualization, the selected candidate must present the Proof of registration in a doctorate or in a course not conferring an academic degree.

Applications must be submitted to UNINOVA or submitted by email to [cenimat.secretariado@fct.unl.pt](mailto:cenimat.secretariado@fct.unl.pt), and to [gestprojuni@uninova.pt](mailto:gestprojuni@uninova.pt) with the subject *BI-Mestre-FLEXSOLAR-01/2021*.

**Selection methods:** The selection methods to use will be as follows:

- Curriculum Vitae [50%];
- Level of knowledge in the area of deposition of thin films, with emphasis on the area of the work plan [50%].
- If the jury deems it necessary, an interview will take place only with the selected candidates, with each of the previous items valid [40%] and the interview [20%]

**Composition of the Selection Jury:**

1. Doctor Hugo Águas Associate Professor  
New University of Lisbon, Portugal
2. Doctor Manuel Mendes Assistant Professor  
New University of Lisbon, Portugal
3. Doctor Rodrigo Martins Full Professor  
New University of Lisbon, Portugal

**Form of advertising/notification of results:** The final results of the evaluation will be advertised, through an alphabetically ordered list, posted in a visible and public location of UNINOVA as well as on its *website*, and the candidate will be selected notified by e-mail.

**Preliminary Hearing and Deadline for Decision:** After the publication of the results, candidates have 10 working days to rule at a prior hearing, pursuant to Article 121 of the Code of Administrative Procedure.

The final decisions of the Panel shall be pronounced within a period of 90 days from the application deadline.

**Models of scholarship contract, final report of the grantee and final report of the advisor:**

These minutes are available on the UNINOVA website ( <https://www.uninova.pt/jobs-opportunities> ).

This notice is also published on the UNINOVA website (Portuguese and English versions) - <https://www.uninova.pt/jobs-opportunities> .