

Call for a Research Scholarship

Call is open for the award of 1 (one) Research Grant for the development of R&D activities to be carried out by doctoral students or by graduates and masters enrolled in courses not leading to an academic, under the **CELLECTIVE – PTDC/CTM-CTM/4653/202 – Dynamic CELLulosE structures with aCTIVE colour changing for photonic and security applications** project, financed by the “Fundação para a Ciência e Tecnologia, I.P.”, under the following conditions:

Scientific Area: Cellulose nanocomposites and respective application on devices

Recipient admission requirements /Profile:

- a) Be enrolled in a PhD or be a graduate and master enrolled in a non-academic degree course;
- b) not to exceed, with the conclusion of the scholarship contract in question, including possible renewals, an accumulated period of two years, when the scholarship has been awarded to a student enrolled in a master's degree program;
- 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 the preparation of cellulose nanocrystals suspensions, deposition of photonic films based on cellulose nanocrystals and their integration of electronic devices.

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

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

- a) Preparation, modification and characterization of suspensions based on cellulose nanocrystals and cellulose derivatives - Task 1
- b) Preparation and production of cellulose based birefringent films - Task 2
- c) Standardization and production of cellulose-based photonic active structures - Task 4
- d) Integration of points a, b and c into photonic devices and structures - Task 5
- e) Preparation of reports and scientific papers based on the work described above.

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>
<https://dre.pt/application/file/a/127230968>.

and

It is subsidiarily applicable the Regulation of UNINOVA Research Grants, approved by deliberation of the Board of Directors of the FCT-Fundação para a Ciência e a Tecnologia, in the meeting of March 2 of 2022.

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. Luís Pereira. UNINOVA will be the contracting entity.

Duration of the grant: The grant shall last for 12 months and is scheduled to start in January 2023.

Monthly maintenance allowance amount: The amount of the scholarship corresponds to € 1144,64, according to the table of values of the scholarships awarded directly by FCT, I.P. in the country (<http://www.fct.pt/apoios/bolsas/valores>).

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 09 to 22 december 2022.

Applications must be formalised by submitting the following documentation:

- ... 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 (www.uninova.pt), in the Job Opportunities tab.
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 (www.uninova.pt), in the Job Opportunities tab;
- ... 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.rh@fct.unl.pt, gestprojuni@uninova.pt and to recrutamento@uninova.pt, with the subject *BI-Mestre-CELLECTIVE-20/2022*.

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

- Curriculum Vitae [50%];
- Level of knowledge in the area of preparation, modification and characterization of cellulose nanocrystal suspensions, ink preparation and printing, characterization of cellulose-based devices, 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:

- President - Luís Pereira, Invited Associate Professor, NOVA University of Lisbon, Portugal
- 1st Voting Member - Pedro Barquinha, Associate Professor, NOVA University of Lisbon, Portugal
- 2nd Voting Member - Rodrigo Martins, Full Professor, NOVA University of Lisbon, Portugal

Form of advertising/notification of results: Both admitted and excluded candidates list with the final classification shall be published on the UNINOVA website (<https://www.uninova.pt/>) and all candidates will be notified by email.

Preliminary Hearing and Deadline for Decision: After communicating the provisional list of the results of the evaluation, candidates have a period of 10 working days to express their opinion at a prior hearing of interested parties, pursuant to Articles 121 and following of the Code of Administrative Procedure.

The final decision will be rendered after the analysis of the statements presented during the preliminary hearing of interested parties. A complaint may be filed against the final decision within 15 working days, or, alternatively, an appeal may be filed within 30 working days, both counting from the respective notification.

Models of scholarship contract, final report of the grantee and final report of the advisor: These minutes are available on the UNINOVA website (www.uninova.pt), in the job opportunities tab.