

NOTICE FOR THE AWARD OF SCHOLARSHIPS IN THE FRAMEWORK OF R&D PROJECTS AND  
INSTITUTIONS  
(Geometrix\_06/2021)

A tender is now open for the attribution of a Research Grant (BI) under the Geometrix thematic line of the Center for Research and Development in Mathematics and Applications (CIDMA), ref. UIDP/04106/2020, with the financial support of the Foundation for Science and Technology/MCTES, through national funds (PIDDAC), under the following conditions:

**Scientific Area:** Mathematics and related areas

**Admission requirements:** Candidates who comply with the provisions of paragraph a) of number 1 of article 2 of the Research Fellowship Statute, in the wording given by Decree-Law No. 123/2019, of 28th August, and also number 1 of article 6 and article 9 of the Regulation of Research Grants of the Foundation for Science and Technology, namely PhD students at a higher education institution. Preference will be given to candidates with a good background in the areas of Algebraic Structures, Algebra, Geometry and Topology. The following skills will be valued: initiative, critical thinking, and creativity.

**Work plan:** It is intended that the scholarship holder develop work in one of the following areas:  
(1) Algebraic and geometric structures related to gyrogroups and possible applications to physics.  
(2) Graph and hypergraph dips on compact surfaces (Map theory and hypermaps) and possible applications to chemistry and/or engineering.

**Applicable legislation and regulations:** Law No. 40/2004, of 18 August, in its updated version (Scientific Research Fellowship Statute); Regulation No. 950/2019, of November 29, published in Diário da República, 2nd Series, No. 241, of December 16 (Research Scholarship Regulations of FCT, IP); Decree-Law No. 66/2018 of 16 August (Legal regime for recognition of academic degrees and higher education diplomas awarded by foreign higher education institutions).

**Workplace:** The work will be developed within the scope of the CIDMA research unit of the Mathematics Department of the University of Aveiro, under the scientific guidance of Professor Domenico Antonino Catalano.

**Duration of the fellowship:** The fellowship will have a duration of 3 months, starting in September 2021, possibly renewable up to a limit of one year, on an exclusive basis.

**Amount of monthly maintenance subsidy:** The amount of the grant corresponds to 1104.64 €, according to the table of monthly maintenance subsidy amounts, set out in Annex I of Regulation No. 950/2019 ([https://www.fct.pt/apoios/bolsas/docs/Table\\_Values\\_SMM\\_LOE\\_2021.pdf](https://www.fct.pt/apoios/bolsas/docs/Table_Values_SMM_LOE_2021.pdf)). The period of payment of the scholarship is monthly and through bank deposit, check or other equivalent method.

**Selection Methods:** The evaluation will focus on the merits of the candidates. The selection methods to be used will be the following: Curriculum assessment (60%) and interview (40%). The interview will take place on a date to be defined by the jury and may be in person or virtual, with candidates being contacted for this purpose. The Selection Jury reserves the right not to admit any candidate from among those who present themselves in the competition, in case the desired requirements are not met (total final classification greater than 50%).

**Composition of the Selection Jury:** • President: Prof. Dr. A. João Breda D'zevedo, CIDMA; • 1st effective member: Prof. Dr. Domenico A. Catalano, CIDMA; • 2nd effective member: Prof. Dr. Eugénio Rocha, CIDMA; • 1st alternate member: Prof. Dr. Alexander Plakhov, CIDMA; • 2nd alternate member: Prof. Dra. Ana Breda, CIDMA.

**Application deadline and form of submission of applications:** The competition is open from June 21st to July 6th, 2021, and only applications within the established deadline will be accepted. Applications must be formalized, obligatorily, by sending an application letter accompanied by the following documents:

Curriculum Vitae, certificate of qualifications and documents proving experience in the area. You must also indicate the email address to which, by this indication, you agree to be notified for all purposes within the scope of this procedure.

Applications should be sent by email to [breda@ua.pt](mailto:breda@ua.pt) (António Breda) and with knowledge to [domenico@ua.pt](mailto:domenico@ua.pt) with subject “Geometrix\_06/2021” .

**Form of advertising/notification of results:** The final results of the evaluation will be published through a list ordered by final classification, posted in a visible and public place at the University of Aveiro, and sent to candidates by email, in compliance with the rules established in Chapter III, section 1, Article 12, of the Research Grants Regulation of the Foundation for Science and Technology, IP (FCT).