

Notice of the Call for three PhD Research Studentship

The Centre of Mathematics (CMAT) of the University of Minho (UM) opens a call for the attribution of three PhD Research Studentships, in the area of Mathematics, hereinafter referred to as Studentships, in accordance with UM Regulations for Studentships and the Fundação para a Ciência e Tecnologia (FCT) Regulations for Studentships and Fellowships and with the Research Fellowship Holder Statute.

The grants will be funded by the strategic basic funding of CMAT (UIDB/00013/2020), with the financial support of the Foundation for Science and Technology (FCT/MCTES) through national funds (PIDDAC) under the conditions set out below.

Scientific area: Mathematics.

Recipients: The PhD Research Studentship is aimed at registered candidates or candidates who meet the necessary conditions to enrol in the Doctoral Program in Applied Mathematics of the Universities of Minho, Aveiro and Porto (MAP-PDMA) and who wish to develop research activities at CMAT, leading to the attainment of the academic degree of Doctor of Philosophy.

Eligibility of candidates: Candidates must meet the eligibility conditions provided for in article 9 of the FCT I.P Regulations for Studentships and Fellowships (2019).

Work plan: It is intended that the Studentship holders carry out research activities leading to the attainment of the academic degree of doctor.

These research activities will take place at CMAT, which will be the R&D Unit hosting the Studentship holder, without prejudice to the work being carried out in collaboration between more than one institution. These activities must be framed in the CMAT activity plan and strategy and must be developed within the scope of the MAP-PDMA (<https://map-pdma.up.pt>).

Applicable Legislation and Regulamentation: UM Regulations for Studentships, Research Fellowship Statute, approved by Law n° 40/2004 of August 18, in the present writing published by Decree-Law No. 123/2019 of August 28; Regulations for Studentships and Fellowships of the Foundation for Science and Technology, I.P. - in force <https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>

Hosting Institution and scientific supervision: The work will be developed in the Centre of Mathematics of the University of Minho, under the supervision of the member(s) of CMAT who proposed the research plan.

Duration of the Studentships: This position is initially opened for 12 months and will begin in October 2021. The fellowship contract may be potentially renewed for until the end of the project UIDB/00013/2020, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P and UM Regulations for Studentships.

Monthly maintenance allowance amount: The monthly maintenance allowance amount 1 104,64 euros, according to the table of values referred in the FCT Regulations for Studentships

and Fellowships, Regulation No. 950/2019 (<https://www.fct.pt/apoios/bolsas/valores>), for studentships in the country. The fellowship will be paid monthly by bank transfer.

Other benefits: Reimbursement of the Voluntary Social Security, corresponding to the 1st level of the contributory tax base and Personal Accident Insurance. Additionally, the research grant may include the costs with the incurred tuition and registration fees.

Composition of the jury:

President: Maria Irene Ferrão de Carvalho Ribeiro Almeida Falcão, Associate Professor at the Department of Mathematics, member of CMAT, University of Minho;

Effective member: Lisa Maria de Freitas Santos, Associate Professor at the Department of Mathematics, member of CMAT, University of Minho;

Effective member: Pedro José Miranda Mourão Patrício, Associate Professor at the Department of Mathematics, member of CMAT, University of Minho;

Substitute member: Ana Cristina Castro Ferreira, Auxiliary Professor at the Department of Mathematics, member of CMAT, University of Minho;

Substitute member: Carolina Paula Baptista Ribeiro, Auxiliary Professor at the Department of Mathematics, member of CMAT, University of Minho;

In case of impediment of the President of the Jury, he will be substituted by the first effective member, being appointed the substitute member to replace the effective member.

Evaluation and selection criteria and procedures: The ranking will be carried out according to the following methodology.

Applications considered admissible will be scored on a scale from 0 to 200 in each of the following evaluation criteria:

- **Criterion A - Candidate Merit, with a weight of 60%**

In this criterion, the merit and the ability of the candidate for both the Doctoral Program in Applied Mathematics (MAP-PDMA) and the proposed research project will be evaluated, based on the curriculum vitae and recommendation letters.

- **Criterion B - Research Project, with a weight of 40%**

In this criterion, the merit of the research project submitted will be evaluated, as well as the motivation letter, in which the path and the reasons of the choice of the research topic submitted must be explained by the candidate.

- **Criterion C – Interview**

If the jury considers convenient, an individual interview (possibly using a video conference system) may be made to the eight best-ranked candidates after applying criteria A and B.

For purposes of the decision on granting the PhD Research Studentship, candidates will be ranked according to the Curriculum Classification (CC), given by the weighted average according to the following formula:

$$(CC) = 0,6 \times A + 0,4 \times B.$$

Applicants with (CC) less than 160 will not be eligible for the PhD Research Studentship.

For candidates with (CC) equal to or greater than 160, if an interview takes place, the Final Classification (CF) will be given by the formula

$$(CF) = 0,8 \times (AC) + 0,2 \times C.$$

If there is no interview, the Final Classification will coincide with the Curriculum Classification.

For tie-breaking purposes, the ranking of candidates will be based on the classifications given to each of the evaluation criteria in the following order of precedence: criterion A, criterion B, criterion C.

Documents proving the ownership of academic degrees and diplomas can be waived during the application stage, being replaced by a declaration of honour from the candidate, with the verification of this condition whilst the contract is signed. This statement must attest facts that occurred on a date prior to the application. In situations of divergence between the information contained in the declaration and the documentation submitted for the purpose of contracting a studentship, only the information contained in the later will be considered.

Results disclosure: The provisory evaluation results, justified on the minutes, will be sent to candidates by email, within 90 working days after the deadline for submission of applications.

If the result is unfavorable to the granting of the requested Studentship, the candidates have a period of 10 working days to comment, if desired, in the context of a prior hearing to interested parties, pursuant to articles 121 and 122 of the Code of Administrative Procedure (DL n° 4 /2015 of January 7th).

Procedures for claims and appeals: The final results of the evaluation will be sent by email to the candidates through an ordered list of classifications, attaching, for this purpose, the minutes with the deliberations of the jury.

The selected candidates shall express in writing their intention to accept the Studentship, starting with the candidate ranked first. In the event of non-acceptance of any candidate, the first Studentship not yet awarded is offered to the next candidate in the order of final ranking. The process is repeated until the three Studentships are awarded and accepted and/or the list of eligible candidates for the Studentship is exhausted.

A complaint may be lodged against the final decision, within 15 working days, addressed to the President of the Jury. Interested parties may also present an optional hierarchical appeal, addressed to the Pro-Rector for Research and Projects, Professor Doctor Filipe Vaz.

Period and formalization of the application: The call is open from the 4th to the 17th of August of 2021.

The applications must be formalised, obligatorily, by sending a letter of application accompanied by the following documents:

- Candidate's *curriculum vitae*;
- Certificates of academic degrees or declaration of honour from the candidate as previously described;
- Research project, with a maximum of three pages, in accordance with the research objectives of CMAT and to be developed during the doctoral programme under the supervision of an integrated member of CMAT;
- Motivation letter, where the candidate must explain his/her academic background and the reasons for his/her application;
- Two recommendation letters by recognized professors or researchers in Mathematics, sent directly by them by email to the addresses bolsas@ecum.uminho.pt and candidaturas@cmat.uminho.pt, with the subject 004/ECUM/CMAT-UI/00013/2021_NameSurnameCandidate;
- Signed acceptance letter from the CMAT integrated member(s) responsible by the supervision of the project.

Applications should be sent by email to candidaturas@cmat.uminho.pt and bolsas@ecum.uminho.pt , placing the reference 004/ECUM/CMAT- UI/00013/2021-NameSurnameCandidate in the subject field. Applications sent by other means will not be accepted.

Studentship grant requirements: The following documents are of mandatory submission, upon conditional granting of the studentship, for purposes of contracting thereof:

- a) Copy of the documents of personal identification, tax number and, if applicable, social security;
- b) Copy of the academic degree certificates held;
- c) Work plan;
- d) Document proving acceptance and registration in the Doctoral Program in Applied Mathematics of the Universities of Minho, Aveiro and Porto;
- e) Supervisor(s) statement declaring the coordination of the work plan.

Terms and conditions of PhD studentship renewal: The renewal of the studentship always depends on the approval, by the Directive Committee of CMAT, of an application submitted by the scholarship holder, within 30 working days prior to the start date of the renewal, of the following documents:

- a) Declaration issued by the supervisor(s) attesting the work plan development and the evaluation of the respective activities;
- b) Declaration demonstrating the enrolment renewal in the study cycle leading to the doctoral degree.