

### Research Studentships for Master students

Applications are open for one Research Studentship, within the framework of Center for Computational and Stochastic Mathematics, 1801P.01409 – CEMAT UIDP/04621/2025, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

**Scientific Area:** Mathematics – Algebra and Topology

**Admission Requirements:**

- a) *To be enrolled at an integrated master or a master.*
- b) *Have a solid background in Algebra, with knowledge in Group Theory and especially in topological groups.*

**Workplan:** The work focuses on the study of groups, with emphasis on topological groups equipped with a pro- $V$  topology, where  $V$  is a pseudovariety of finite groups. Open problems of both topological and algebraic nature should be addressed. This work should allow the scholarship holder to deepen their knowledge in Group Theory and Topology and develop research skills.

**Legislation and Regulations:** Statute of Scientific Research Fellow, approved by Law nr. 40/2004, of August 18, as worded by Decree-Law nr. 123/2019, of August 28; FCT Regulation for Research Studentships and Fellowships, available on <https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2019.pdf> and <https://dre.pt/application/file/a/127230968>.

**Workplace:** The work will be developed at Center for Computational and Stochastic Mathematics of Instituto Superior Técnico, under the scientific supervision of Professor Mário Branco.

**Duration:** The research fellowship(s) will have the duration of 12 months. It's expected to begin in June 2025, and may be eventually renewed up to the maximum of 24 months, including the duration of the initial contract.

**Monthly maintenance allowance:** According to the values for Research Fellowships awarded by FCT in Portugal (<https://www.fct.pt/fct-atualizou-o-valor-das-bolsas-para-2025/>), the amount of the monthly maintenance allowance is €1040,98, being the payment method an option of the Fellow by Wire Transfer/Check.

**Selection methods:** The selection methods will be the following: curriculum evaluation, recommendation letter, motivation letter, and individual interview (to be conducted in person or online), with the respective weight of 60%, 10%, 15%, and 15%. Applicants whose application is scored with a final classification of less than 70 points are not eligible for granting a fellowship.

**Composition of the selection Jury:** Manuel Scotto (president), Maria João Gouveia (effective member), Catarina Santa Clara (effective member), and Filipa Soares de Almeida (alternate member) – CEMAT members.

**Announcement/ notification of the results:** The final evaluation results will be communicated to all applicants by email.

**Deadlines and procedures of complaint and appeal.** A complaint may be lodged from the final decision within 15 working days, or an appeal to the Executive Board of IST-ID within 30 working days, both counted from the respective notification

**Application deadline and formalization:** The call is open from May 5 until May 16, 2025.



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It is mandatory to formalize applications with the submission of the following documents: i) B1 Form – Fellowship application (<https://ist-id.pt/concursos/bolsas/> ); ii) *Curriculum Vitae*; iii) academic degree certificate, where applicable; iv) proof of enrollment at an academic degree course (Master, Integrated Master); v) motivation letter;

Applications must be submitted to the email: [bolsas@drh.tecnico.ulisboa.pt](mailto:bolsas@drh.tecnico.ulisboa.pt)



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