

Research Studentship (Master or Integrated Master Student)

Applications are open for 1 (one) Research Fellowship, within the framework of project/R&D institution (“Biomimetic Small Molecule Activation Routes Towards the Decomposition of Pollutants and Valorisation”, Centro de Química Estrutural/Associação do Instituto Superior Técnico para a Investigação e Desenvolvimento (IST-ID), (2022.02069.PTDC) with the financial support of FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Chemistry and Chemical Engineering/ Inorganic Chemistry

Admission Requirements:

- a) *To be enrolled at an integrated master or a master;*
- b) *not to exceed with this contract, including the possible renovations, an accumulated period of two years in this type of studentship, continuously or with interruptions.*

Workplan: to develop new molecular catalysts capable of mimicking nitrous oxide reductase (N₂OR) and methane monooxygenase (MMO) for decomposition of nitrous oxide (N₂O) as well as activation of CH₄ and MeOH through N₂O-assisted catalysis. Characterization of catalysts and analysis of products using different analytical methods (GC, GC-TCD, GC-Ms, IR, ESI-Ms, NMR, MET).

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 carried out at the Structural Chemistry Centre of the Instituto Superior Técnico, under the scientific supervision of Professor Elisabete Alegria and Dr. Martin Prechtel.

Duration: The research fellowship(s) will have a duration of 6 months. It's expected to begin in June 2023 and is not renewable.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (<http://www.fct.pt/apoios/bolsas/valores>), the amount of the monthly maintenance allowance is € 930,98, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods to be used are the following: curricular evaluation with the following values: laboratory experience in the project area (45%); university degree average (35%); publications and communications (20%). The 3 candidates with the highest classification may be called for an interview, and the final mark will be weighted 30% by the interview and 70% by the curricular evaluation.

Composition of the selection Jury: Maria de Fátima C. Guedes da Silva (President), João Paulo Costa Tomé (Member) e Martin Prechtel (Member) e Elisabete Alegria (Member).

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 22 May to 8 June 2023.

It is mandatory to formalize applications with the submission of the following documents: i) B1 Form – Fellowship application (<http://drh.tecnico.ulisboa.pt/bolseiros/formularios/>); 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: martin.prechtl@tecnico.ulisboa.pt and elisabete.alegria@tecnico.ulisboa.pt