

Research Studentships (for students of a course that does not award an academic degree)

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 hold a bachelor or master degree and be enrolled at a course that does not award an academic degree and it is integrated in the educational project of a higher education institution, performed in association or cooperation with one or several R&D units;

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 12 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 € 1199,64, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: Evaluation of Curriculum Vitae; specific interests/knowledge/skills about synthetic chemistry and analytical chemistry; and interview (if necessary), with the respective weight of 40 (CV): 40 (interests/specific knowledge/skills): 20 (interview).

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) *Curriculum Vitae*; ii) academic degree certificate; iii) proof of enrollment at a course that does not award an academic degree; iv) motivation letter; v) declaration on honour that the applicant does not exceed with this contract an accumulated period of two years in this type of studentship, continuously or with interruptions.

Applications must be submitted to the email: martin.prechtl@tecnico.ulisboa.pt and elisabete.alegria@tecnico.ulisboa.pt