

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

Applications are open for one (1) Research Studentship(s), within the framework of project from Centro de Química Estrutural, UIDB/00100/2020 financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: 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.

Moreover, the candidate should present a proved research experience on synthetic procedures and analytical methods involved in the synthesis of chalcogen bonding compounds.

Workplan: The research work should address the rational design and use of chalcogen bonding in the decoration of secondary coordination sphere of coordination compounds (crystal engineering). It will also involve the preparation of co-crystals by using chalcogen bond donor organic compounds, with interest in catalytic and pharmaceutical applications. The synthetic protocols to develop, with an emphasis on coordination and organic chemistry, are in line with the aims of the research centre, and will provide the candidate with training in the areas of synthesis, catalysis, crystal engineering, molecular spectroscopy and other analytical methods.

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 Centro de Química Estrutural (Associação do Instituto Superior Técnico para a Investigação e Desenvolvimento, IST-ID) under the scientific supervision of Prof. Maria de Fatima C. Guedes da Silva, Dr. Kamran Talib Mahmudov and Prof. Armando Pombeiro.

Duration: The research fellowship(s) will have the duration of 12 months and is expected to begin in July 2022. No renewed.

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 € 1144,64, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: Selection methods: The selection methods will be the following: Curriculum vitae and individual interview (by Zoom) with the respective weight of 50 % (50 points to each method). Proved research experience in the project domain is mandatory.

Composition of the selection Jury: Prof. Maria de Fatima Costa Guedes da Silva, Dr. Kamran Talib Mahmudov, Prof. Armando Jose Latourrette de Oliveira Pombeiro

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 31 until 15 June, 2022.

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 a course that does not award an academic degree; v) motivation letter; vi) 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: fatima.guedes@tecnico.ulisboa.pt