

(BL167/2024-IST-ID)

Post-Doctoral Research Fellowships

Applications are open for 1 Post-Doctoral Research Fellowship, within the framework of project/R&D PRR NEW GENERATION STORAGE (1801P.01313.1.01), financed by PRR IAPMEI, under the following conditions:

Scientific Area: CHEMICAL ENGINEERING-MATERIALS FOR ENERGY, ELECTROCHEMISTRY

Admission Requirements:

- a) *to hold a PhD degree obtained in the 3 years previously to the submission of the fellowship application;*
- b) *to have carried out the research work that led to the PhD degree in a different entity from the host institution of the fellowship;*
- c) *Not to exceed, with this fellowship contract, including the possible renovations, an accumulated period of 3 years in this type of fellowship, continuously or with interruptions;*
- d) *Not to have previously held a post-doctoral fellowship from IST-ID.*

Workplan: Develop new strategies based on the use of eco-friendly eutectic solvents (DES) for the recycling and selective recovery of metals from the treatment of black mass from lithium-ion batteries (LIBs). The reuse of recycled materials aims at the manufacture of new electrodes for supercapacitors and hydrogen production. The work also involves testing and characterizing these new electrodes.

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 CQE – CENTRO DE QUIMICA ESTRUTURAL of IST-ID, under the scientific supervision of PROFs FATIMA MONTEMOR and ISABEL MARRUCHO

Duration: The research fellowship(s) will have the duration of 12 months. It's expected to begin in SEPTEMBER 2024 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/wp-content/uploads/2024/02/Tabela-de-Valores-SMM_atualizacao-2024.pdf), the amount of the monthly maintenance allowance is € 1801,00, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: QUALITY OF THE CV, RESEARCH EXPERIENCE IN THE AREA, INTERVIEW, with the respective weight of 40%, 30% and 30%.

Composition of the selection Jury: FATIMA MONTEMOR, ISABEL MARRUCHO, MARTA ALVES

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 July 1 until July 12, 2024.



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; iv) motivation letter; v) declaration on honour that the applicant does not exceed with this contract an accumulated period of three years in this type of fellowship, continuously or with interruptions, within the technological and scientific system, and that the research work that led to the PhD degree was carried out in a different entity from the host institution of the fellowship.

Applications must be submitted to the email: mfmontemor@tecnico.ulisboa.pt