

Post-Doctoral Research Fellowships

Applications are open for one Post-Doctoral Research Fellowship, within the framework of project “SuperOpTyMe – Radiolabeled opine-type metallophores as new targeted PET imaging probes for selective detection of Superbugs infection” / C2TN – Centro de Ciências e Tecnologias Nucleares, (1801P.01553.1.01) 16681-LISBOA2030-FEDER-00786200 - IST-ID, financed by national funds through FCT and co-financed by the European Regional Development Fund (FEDER) through COMPETE – “Programa Operacional Fatores de Competitividade”, under the following conditions:

Scientific Area: Basic Sciences and Applied Life Sciences

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: The work will primarily focus on the total synthesis and characterization of new analogs of metallophores inspired by staphylopine, as well as on the synthesis of staphylopine itself. Several synthetic techniques and procedures will be employed and optimized with the goal of developing synthesis protocols that yield reaction efficiencies compatible with the potential use of one or more of these compounds in clinical applications. The synthesized products will be characterized using standard techniques such as $^1\text{H}/^{13}\text{C}$ NMR, HPLC-UV, ESI-MS, FTIR, etc.

In addition to laboratory experimental work, the fellow will also be responsible for compiling the obtained results and presenting them periodically to other project members, as well as for contributing to the writing of scientific publications related to the developed work.

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 C2TN – Centro de Ciências e Tecnologias Nucleares of Instituto Superior Técnico, under the scientific supervision of Dr Ana Sofia Cavaleiro Gama

Duration: The research fellowship(s) will have the duration of 18 months. It's expected to begin in November/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 € 1 851,00, being the payment method an option of the Fellow by Wire Transfer.



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Selection methods: The selection methods will be the following: curriculum evaluation (40%), experience in the research project area (40%), publications in peer-reviewed international journals (20%), with each evaluation item scored up to a maximum of 20 points.

Academic requirements: PhD in Chemical Sciences, sub-area of Organic Chemistry, as the minimum academic qualification. Substitution of this qualification level by training or professional experience is not permitted.

Preferred requirements: In the curriculum evaluation, professional activity and experience particularly relevant to the disciplinary/scientific area of Organic Chemistry/Medicinal Chemistry will be valued. As a minimum requirement, the candidate must have an h-index of 7 and at least 12 publications in the relevant scientific area indexed in Scopus.

Composition of the selection Jury: Dra Ana Sofia Cavaleiro Gama (Assistant Researcher C2TN, Project PI), Dra Maria Paula Cordeiro Crespo Cabral Campello (Assistant Researcher C2TN/DECN), Dra Célia Maria da Cruz Fernandes (Principal Researcher C2TN/DECN).

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 September 29 until October 10, 2025.

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: sofia.gama@ctn.tecnico.ulisboa.pt



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