

(BL281/2024-IST-ID)

Research Studentships for master students

Applications are open for 1 Research Studentship, within the framework of HypnsoAIR, PTDC/CTA-AMB/3263/2021, financed by National Funds FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Natural and Environmental Sciences, Chemistry, or related fields.

Admission Requirements:

- a) To be a master's or integrated master's student in the field of environmental engineering, chemistry, or a related area;
- b) Not exceed, with the conclusion of the present grant contract, including any possible renewals, an accumulated period of two years in this type of grant, whether consecutive or non-consecutive;
- c) Good communication skills and proficiency in written and spoken Portuguese;
- d) Strong knowledge of English, both written and spoken;
- e) Organizational skills and autonomy;
- f) Immediate availability.

Workplan: The selected candidate will join a national project funded by the Foundation for Science and Technology (FCT), titled HypnosAIR (PTDC/CTA-AMB/3263/2021). This project's primary objective is to analyze and assess population exposure to air pollutants in both outdoor and indoor environments, with a focus on sleep periods and their impact on health. The project includes a multidisciplinary team comprised of experts in environmental engineering, chemistry, and health.

The candidate's activities will involve evaluating personal exposure to air quality among the Portuguese population and analyzing ways to mitigate exposure to atmospheric pollution in urban and indoor environments. To this end, the candidate will: i) Apply methods and techniques for air quality assessment; ii) Participate in sampling campaigns and the characterization of atmospheric pollutants; iii) Identify factors contributing to air quality degradation and its health impact; iv) Propose measures for improving air quality; v) Develop reports and technical documents aligned with the project objectives; vi) Collaborate with project partners in joint activities to achieve the established goals; vii) Actively participate in the production of scientific articles and other scientific documents; viii) Contribute to the project's communication and dissemination activity.

These activities will enable the candidate to actively contribute to advancing scientific knowledge on air quality and its health impacts.

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 Ciências e Tecnologias Nucleares of Instituto Superior Técnico, under the scientific supervision of Joana Múrias Gomes Lage, PhD.

Duration: The research fellowship(s) will have the duration of 6 months, with the possibility of renewal for an additional 6 months (until the end of the project), with a planned start date in January 2025.



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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 €990.98, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection method will be based on the candidate's curriculum evaluation, considering 1) suitability for the proposed work program and 2) assessment of the candidate's performance in an interview, with the following weightings: Curriculum vitae (70%) and interview (30%). The final score will be assigned on a scale from 0 to 20 points.

Composition of the selection Jury: Joana Múrias Gomes Lage (President), Susana Marta Lopes Almeida (Effective member), Miguel António Felizardo Costa (Effective 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 November 22 until December 5, 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) proof of enrollment at an academic degree course (Master, Integrated Master); iv) a letter of motivation.

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



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