



UNIVERSIDADE DE ÉVORA

IIFA – INSTITUTO DE INVESTIGAÇÃO E FORMAÇÃO AVANÇADA

DOCTORAL RESEARCH FELLOWSHIP - 1 VACANCY

Fellowship 1 - Sines Nexus Project

20th of March of 2023

A call for tenders is open for one Doctoral Research Fellowship within the scope of **the WP8 - Decarbonising and modelling** of the Research Project named “Agenda Mobilizadora: Sines Nexus”, with reference “Fellowship 1 - 5295”, financed by national funds through “PRR - Plano de Recuperação e Resiliência”, under the following conditions:

Scientific area: Environmental Engineering, Environmental Sciences or related or Telecommunications Engineering, Computer Engineering, Renewable Energy Engineering or related.

Admission requirements:

Bachelor's or Master's degree in Environmental Engineering, Environmental Sciences or related areas, Computer Engineering, Renewable Energy Engineering or related areas. Candidates should have proven experience in the context of sustainability, transport, decarbonisation and energy studies, scientific and technological research projects, particularly in the area of energy, energy efficiency, consumption modelling, application development and IoT, AI, BigData, data modelling and application to transport and buildings. They should also have experience in Data Processing and information systems, as well as in activities of dissemination of scientific results and publication of scientific papers in indexed international journals. Mastery of the Portuguese and English languages, spoken and written, is essential.

The application package should include detailed information about the candidates' profile, with explicit reference to the candidate's experience in the areas and context indicated, namely, among others, the classification obtained in the bachelor and master degrees, and participation in projects, works and publications previously developed and produced.

As set forth FCT Research Scholarship Regulation No. 950/2019 of December 16, 2019, article 3 and 6, candidates for “BI” (Research Grants) must comply as a rule condition for the award of the scholarship, the effective inclusion in study cycles leading to the attribution of academic degrees or in courses not leading to an academic degree. Courses that do not confer an academic degree correspond to the courses provided for in subparagraph e) of paragraph 3 of article 4 of Decree-Law No. 74/2006 of 24 March and must be developed in a higher education institution in association with at least one R&D unit, including a course plan in one or several research areas of the unit.

Work plan: Participation in the definition of requirements and development of evaluation methodology for consumption and GHG emissions in the Port of Sines, namely:





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- Analysis of available bibliography;
- Benchmarking visits to ports with similar study experiences;
- Collection of consumption/emission data from the Administration of the Port of Sines and concessionaires;
- Monitoring and data collection on GHG concentration (existing sensors in the Port, drones and other instruments).
- Spatial analysis and modeling of emissions;
- Characterization of energy consumption in buildings and modeling of their consumption patterns by building typology
- Calculation and modeling of consumption/emissions in buildings
- Characterization of vehicle typologies (land and sea) and modeling of energy consumption patterns
- Consumption/emissions calculation and modeling for land transport
- Calculation of consumption/emissions and modeling in maritime transport
- Characterization and modeling of the energy matrix of the Port of Sines and modeling up to 2050.

In parallel:

- Participation in national and international technical-scientific meetings
- Support in the preparation of interim reports and collaboration in the final report
- Monitoring of the project's evaluation indicators
- Preparation of scientific papers for publication in indexed international journals
- Organization and participation in dissemination actions
- Organization of workshops and seminars

Applicable legislation and regulations: The granting of the Research Scholarship will be carried out upon the signing of a contract between the University of Évora and the scholarship holder, as set in the template [former.fct.pt/apoios/Minuta_Contrato_Bolsa.docx](https://www.fct.pt/apoios/Minuta_Contrato_Bolsa.docx), pursuant to the Research Scholarship Statute (Law No. 40/2004 of August 18 and Decree-Law No. 123/2019 of August 28) and in accordance with the legislation and Regulation of Research Grants of the Foundation for Science and Technology, IP in force, regulation nº950/2019 of December 16, 2019: <https://files.dre.pt/2s/2019/12/24100000/0009100105.pdf> and other applicable rules.

Place of work: The work will be developed at IIFA - Instituto de Investigação e Formação Avançada of the University of Évora, under the scientific guidance of the Professor Maria Teresa Folgôa Batista.

Duration of the scholarship(s): The scholarship will have a duration of 12 months, starting on May of 2023. The scholarship contract may be renewed up to december of 2025 or until the end of the funding project's budget allocation.

Amount of monthly maintenance allowance: The amount of the scholarship corresponds to € 1 199,64, according to the table of scholarships awarded directly by FCT, I.P. in Portugal (https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM_2023.pdf), payments being made monthly, by check or bank transfer.



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Selection methods: The selection methods to be used will be the following: Curriculum Evaluation 20 values (100%) and Interview (if necessary), in which case the valuation is 12 values (60%) for the curriculum evaluation and 8 values (40%) for the interview.

Composition of the Selection Jury:

President: Professor Maria Teresa Folgôa Batista
1st Member – Professor Fátima de Jesus Folgôa Batista
2nd Member - Professor Carlos Pinto Gomes
1st Substitute – Professor Luis Manuel Navas
2nd Substitute – Professor Rodrigo Ramirez

Advertising/notification of results: The final results of the evaluation will be publicized, through an ordered list by final grade obtained posted in a visible and public place IIFA - Instituto de Investigação e Formação Avançada, being the candidate approved notified through email.

To ensure the right of prior hearing of interested parties, the Final Classification project will be announced by any written means to all interested parties.

After communicating the provisional list of the results of the evaluation, candidates have a period of 10 working days to express their opinion in a preliminary hearing of interested parties.

Application deadline and submission of applications: The tender is open from 31st of March to 26th of April of 2023 and the results of the selection will be published by 2nd of May of 2023.

Applications must be formalized, obligatorily, by sending an application letter with the following documents: Curriculum Vitae, certificate of qualifications, reference or recommendation letters.

For the purposes of application, the evidence may be replaced by a declaration of honor signed by the candidate, but the failure to demonstrate that evidence, in the contracting phase, possession of the required degree on the deadline for application or the non-presentation of proof of enrollment in the study cycle or non-degree course, for scholarships with this component, imply the cancellation of the candidate's application.

Academic degrees obtained in foreign countries require registration by a Portuguese Institution in accordance with Decree-Law no. 66/2018, of August 16 and Ordinance No. 33/2019, of January 25th.

The presentation of the certificate is mandatory for the signing of the contract. More information can be obtained at: <https://www.dges.gov.pt/pt/pagina/recognition?plid=374>

Applications must be sent by email, with the reference “*Fellowship 1 - Sines Nexus Project*” to:

Prof. Maria Teresa Folgôa Batista
IIFA - Instituto de Investigação e Formação Avançada of the University of Évora
email: mtfb@uevora.pt