



RENEWABLE ENERGIES CHAIR
RESEARCH SCHOLARSHIP FOR MASTER DEGREE – 1 VACANCY

03 of October of 2022

A call for tenders is open for a Research Scholarship for Master degree, within the scope of the project *SoCoNexGen - Solar Indoor Cooking Systems of the Next Generation*, reference LEAP-RE/0002/2021, financed by national funds through FCT, under the following conditions:

Scientific area: Mechanical Engineering, Physics, Engineering and Environment

Admission requirements:

Master degree in Solar Energy Engineering or scientific area equivalent to the ones mentioned above. This is a mandatory condition;

Experience in the field of solar thermal energy and/or in thermal energy storage;

Knowledge of how solar photovoltaic systems work;

Knowledge and experience with solar thermal collectors and/or testing of solar cookers and in research activities;

Frequency of cycle of studies conducing to a degree related to solar energy or equivalent area;

Experience in the modelling of solar thermal sistemas, knowndedge and experience in modelling softwares is valued;

Proficiency in English is valued;

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: The work plan foreseen for the Scholarship is related to the activities of the SoCoNexGen project in the scope of the installation and testing of an hybrid solar oven for application in communities:

- Contact with suppliers to define the tender procedures necessary for the acquisition of components and/or materials necessary for the construction of the planned systems.
- Physical implementation of the system;

- Testing of the prototype and analysis of results;
- Creation of physical model on a software to model the behaviour of the prototype and validation with test results obtained through the operation of the system under real conditions.
- Contribution to the development of a testing standard that allows to test different solar oven configurations to allow the intercomparison of results
- Regular contact with project partners to keep track of project evolution and participation in dissemination activities.
- Support in the production of project reports.
- Publication of research results obtained throughout the development of the project.

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 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://www.fct.pt/apoios/bolsas/regulamento.phtml.pt> and other applicable rules.

Place of work: The work will be developed at Renewable Energies Chair of the University of Évora, under the scientific guidance of the Doctor Afonso Cavaco

Duration of the scholarship(s): The scholarship will have a duration of 12 months, starting in November of 2022. The scholarship contract may be renewed up to the end of the financing SoCoNexGen project budget allocation.

Amount of monthly maintenance allowance: The amount of the scholarship corresponds to €1144,64, according to the table of scholarships awarded directly by FCT, I.P. in Portugal (<http://fct.pt/apoios/bolsas/valores>), payments being made monthly, by check or bank transfer.

Selection methods: The selection methods to be used will be the following:

Academic Qualifications: 45%

Classification: 50%

Adequacy: 50%

Curriculum Analysis: 45%

Scientific Activity: 50%

Experience in requested topics: 50%

Interview:10%

Composition of the Selection Jury:

President – Dr Afonso Cavaco (Researcher – Renewable Energies Chair)

1st Jury member – Dr Radia Ait El Cadi (Researcher – Renewable Energies Chair)

2nd Jury member – Dr Luís Fialho (Auxiliar Researcher – Renewable Energies Chair)

1st Substitute – Dr Diogo Canavarro (Auxiliar Researcher – Renewable Energies Chair)

2nd Substitute – Dr Pedro Horta (Chairman of the Renewable Energies Chair)

Advertising/notification of results: The final results of the evaluation will be publicized, through a list sorted by final grade posted in a visible and public place at the University of Évora (Renewable Energies Chair, Polo da Mitra), and the selected candidate will be notified by 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 04th October of 2020 to 19th of October of 2022 and the results of the selection will be published by 24th of October of 2022.

Applications must be formalized, obligatorily, by sending an application letter with the following documents: **Curriculum Vitae, certificate of academic qualifications and other relevant supporting documents.**

For the purposes of application, the evidence may be replaced by a declaration of honour 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 enrolment 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 to:

Doctor Afonso Cavaco
Renewable Energies Chair of the University of Évora

email: catedraer@uevora.pt