



UNIVERSIDADE DE ÉVORA

## **RENEWABLE ENERGIES CHAIR**

### **Research Scholarship for Bachelor's Degree - 1 VACANCY**

26<sup>th</sup> of January of 2024

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

**Scientific area:** Environment and Engineering

#### **Admission requirements:**

- \_ Degree in Renewable Energy Engineering, or equivalent to the desired Scientific Area. This is an eliminatory factor.
- \_ Attendance of the Master's Degree in Solar Energy Engineering. This is an eliminatory factor.
- \_ Scientific experience in the field of photovoltaic applications and energy storage systems, in particular in 2nd life lithium batteries;
- \_ Preferably have knowledge and experience in the areas of photovoltaic energy systems and applications.
- \_ Good analysis, data collection and bibliographic analysis skills.
- \_ Good command of English and Portuguese, these will be the working languages.
- \_ Good ability to work autonomously and organized.

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.



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**Work plan:**

The work plan envisaged for the Grant is related to the activities of the SoCoNexGen project within the scope of the development and testing of new concepts demonstration of new concepts of local energy communities and includes:

- Study of the hybrid solar oven prototype and development of an electrical operation simulation model in MatLAB for integration with the thermal model.
- Sizing of photovoltaic and storage systems for use in a hybrid solar oven;
- Experimental test of a solar oven with hybrid and electric-only operating mode
- Support in ongoing research tasks and projects at the ER Chair.

**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 [http://former.fct.pt/apoios/Minuta\\_Contrato\\_Bolsa.docx](http://former.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/2019/12/241000000/0009100105.pdf> and other applicable rules.

**Place of work:** The work will be carried out on the premises of the Renewable Energies Chair at the Polo da Mitra of the University of Évora, under the scientific supervision of Dr Afonso Cavaco.

**Duration of the scholarship(s):** The scholarship will have a duration of 12 months, starting on March of 2024. The scholarship contract may be renewed up to a maximum of 12 months or until the end of the funding project's budget allocation.

**Amount of monthly maintenance allowance:** The amount of the scholarship corresponds to €930,98, 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](https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM_2023.pdf)), payments being made monthly, by check or bank transfer.

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

**Academic qualifications: 50%**

Classification: 50%

Suitability: 50%

**Curriculum Analysis: 50%**

Scientific Activity: 50%

Experience in the requested topics: 50%



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para a Ciência  
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**Composition of the Selection Jury:**

President - Dr Afonso Cavaco (Researcher - Renewable Energy Chair)

1st Member - Dr Luís Fialho (Assistant Researcher - Renewable Energy Chair)

2nd Member - Dr Diogo Canavarro (Assistant Researcher - Renewable Energy Chair)

1st Substitute - Dr Radia Ait El Cadi (Researcher - Renewable Energy Chair)

2nd Substitute - Dr Pedro Horta (Chairman - Renewable Energy 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 02<sup>th</sup> of February of 2024 to 16<sup>th</sup> of February of 2024 and the results of the selection will be published by 19<sup>th</sup> of February of 2024.

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 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 to:

Doctor Afonso Cavaco

Renewable Energies Chair of the University of Évora

email: [catedraer@uevora.pt](mailto:catedraer@uevora.pt)