



## Call for candidates for a doctoral position at GEP

REF. : G2210

**Published:** 01 March 2022

**Deadline:** 21 March 2022

**Reference:** G2210

**Research Activities:** Solar and Renewable Energies

**Candidate:** PhD student in the integration of solar heat in the Moroccan industrial processes

**Location:** Ben Guerir

**Duration:** 36 months

**Eligibility :** Be enrolled in a doctoral thesis at a National University

### DESCRIPTION

We, the thermal department team within the Green Energy Park research platform, are looking for a motivated thermal /process engineer (or similar) for a PhD thesis to integrate solar heat in the Moroccan industrial processes. The industrial sector represents 24 % of the Morocco's total final energy consumption with quite large potential despite the limited penetration of solar technologies in the industrial sector. We aim to contribute to the integration of solar heat in the industrial energy systems, in particular in processes required below 250 °C.

#### Your tasks will be:

- Study and assessment of the potential for integrating solar heat into Moroccan industrial processes;
- Overview and evaluation of the main solar technologies used for solar heat integration in the industrial sector;
- Realization, test and validation of a parabolic trough collector for heat generation;
- Integration of the developed collector in real industrial applications;
- Help in the organization of industrial events and workshops at national level for the integration of solar heat in industrial processes;
- Help with the validation and implementation of other projects within the thermal team;
- Publish research results and present them at conferences, workshops, etc.;
- Participate in the organization of national and international events organized by GEP.

### REQUIREMENTS

- Be enrolled in a doctoral thesis at a National University;
- Skills in electrical, thermal and process engineering;
- Good knowledge of programming languages (Matlab, Python or similar);

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- Experience in modelling and numerical simulation, in particular thermal simulation using COMSOL;
- Experience in experimental work with topics such as data acquisition, experimental design, and data analysis;
- Good analytical, synthesis, innovation and communication skills;
- Strong interest in interdisciplinary research.

**The candidate should send the following documents to [contact@greenenergypark.ma](mailto:contact@greenenergypark.ma) ; [elydrissi@greenenergypark.ma](mailto:elydrissi@greenenergypark.ma) by specifying the offer Ref in the email subject.**

- A curriculum vita;
- Copies of university degrees (doctorate registration certificate);
- A research proposal linked to the project description and to one of the issue areas of the call (2000 words, containing an explanation of topic, Scientific background of candidate, Methodology for completion of research proposal);
- Letter of recommendation by a professor.