



Call for candidates for a doctoral position at Green Energy Park

REF. : G2209

Published: 01 March 2022

Deadline: 21 March 2022

Reference: G2209

Research Activities: Solar and Renewable Energies

Candidate: PhD student in the waste and biomass valorization

Location: Benguerir

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 energy in the biomass drying process and the valorization of biomass to bioenergy.

Your tasks will be:

- Study and assessment of the potential for integrating solar heat into drying processes;
- Overview and evaluation of the main solar technologies used for the production of hot air;
- Experimental study of solar drying of biomass and production of a test prototype;
- Physico-chemical characterization of biomass;
- Energy recovery from biomass;
- 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 thermal and process engineering;
- Good knowledge of programming languages (Matlab, Python or similar);
- Good knowledge of mass and heat transfer;
- Experience in modelling and numerical simulation, in particular thermal simulation using COMSOL;
- Good analytical, synthesis, innovation and communication skills;



• Strong interest in interdisciplinary research. **The candidate should send the following documents to contact@greenenergypark.ma ; koukouch@greenenergypark.ma by specifying the offer Ref in the email subject.**

- A curriculum vita (CV);
- 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.

About the Green Energy Park

The Green Energy Park (GEP) is a renewable energy platform of testing, researching and training based in the green town of Benguerir, next to Mohamed VI Polytechnic University (UM6P), constructed in collaboration with the Research institute of Solar Energy and new energy sources (IRESEN) and the OCP Group. This unique platform known as the first in Africa will, on the one hand, create synergies and coalition between several Moroccan research institutions in order to reach excellence and, on the other hand acquire knowledge and know-how by the various partner universities as well as Moroccan industrials.