JOB DESCRIPTION

1 GENERAL DESCRIPTION

Published : 31/05/2024
Deadline: 23/06/2024
Reference: G2412
Research Activities: R&D & Material sciences and Environment.
Position: Postdoctoral researcher
Location: Benguerir, Morocco
Contract type: CDD
Duration: 24 Months
Eligibility: PhD in Material sciences and Water Sciences

The Green Energy Park is an experimentation, research and training platform in renewable energies based in the green city of Benguerir and built in collaboration between the Institute for Research in Solar Energy and New Energies (IRESEN) and Mohamed University VI Polytechnic (UM6P). This unique platform, the first in Africa, allows on the one hand to create synergies and coalitions between several Moroccan research institutions to achieve excellence, and on the other hand to acquire knowledge and know-how through to partnerships with other universities and Moroccan industries.

2 RESPONSABILITIES

As part of the EESEPS R&D program (2024-2029), the Postdoctoral researcher will:

- Lead and contribute to research projects focused on the development and optimization of advanced water treatment processes. This includes experimental design, data analysis, and the evaluation of process efficiency and sustainability.
- Collaborate with a team of researchers, including undergraduate students.
- Collaborate with external stakeholders, including industry partners, to apply research findings to real-world applications.
- Publish research findings in high-impact peer-reviewed journals and present work at national and international conferences.
- Assist in the preparation of grant proposals to secure funding for future research projects.

3 REQUIRED SKILLS

This job is intended for a Ph.D. in Environmental Engineering, Chemical Engineering, Environmental Science, or a related field, with a focus on water treatment technologies.

- Demonstrated experience in water treatment research, including familiarity with analytical techniques, process modeling, and pilot-scale studies.
- Strong analytical and problem-solving skills, proficient in statistical data analysis and familiar with software tools relevant to the field.
- Excellent communication skills, both written and verbal, with the ability to produce high-quality research publications and presentations.
- A highly motivated individual with a passion for environmental sustainability and water treatment research.
- Experience in materials and nanomaterials synthesis.
- Ability to work independently as well as part of a team.
- Experience in inorganic and hybrid material characterization such as FTIR, XRD, SEM, TEM, Nitrogen adsorption desorption, zetasizer, UV-visible, Solid NMR, PL..
- Experience in analytical chemistry with focus on HPLC, TOC…
- Experience in photocatalysis for water remediation. Sonocatalysis and thermocatalysis are also preferred.

How to apply:

Interested candidates are requested to submit their application, including a detailed curriculum vitae and motivation letter. Applications should be emailed to **recrutement@greenenergypark.ma** by specifying the offer Ref in the email subject.