



Call for candidates for a researcher position at GEP

REF. G2304

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Deadline: 19 March 2023

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Research Activities: Solar and Renewable Energies

Candidate: Researcher/ R&D Engineer on data science, artificial intelligence, and image processing

Location: Benguerir

Duration: CDI

Eligibility: At least 2 years of experience in equivalent work

DESCRIPTION

We, the thermal department team within the Green Energy Park research platform, are looking for a motivated PhD researcher/ engineer/ data scientist (or equivalent) to lead and develop engineering and R&D projects on the predictive maintenance of solar power plants and industrial systems in general using artificial intelligence, image processing and recognition,... Through these projects, we aim to optimize the O&M costs by developing new innovative inspection & control and fault detection methods based on real-time monitoring of components, artificial intelligence, and embedded systems for early detection of anomalies and degradation forms.

Your tasks will be:

- Develop and supervise the development of embedded software for various research and industrial projects in the field of renewable energies.
- Develop and improve AI tools for fault detection through image recognition and processing.
- Develop Site-Specific O&M strategies for CSP systems.
- Supervise the development of optical control systems using image processing and AI tools.
- Participate in project management.
- Supervise PhD students and engineering interns at the Green Energy Park.
- Writing technical reports and project deliverables.
- Participate in writing new research projects for national and international projects calls.
- 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

- Researcher, engineer or data scientist with experience in software and embedded development (A PhD in Computer Science or Embedded Systems is a plus)
- Experience in R&D projects.
- Good knowledge of programming languages (Matlab, C++, Python or equivalent).
- Good knowledge of artificial intelligence and image processing/recognition...
- Skills in applied mathematics, software architectures, and remote control using IoT systems.
- Experience in modelling and numerical simulation, in particular image processing and artificial intelligence modelling.
- 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 a resume and motivation letter to contact@greenenergypark.ma ; bennouna@greenenergypark.ma by specifying the offer Ref in the email subject.