



Call for candidates for a post-doctoral fellowship in silicon group at GEP REF. G2148

Published: 4/26/2021

Deadline: July 2021

Reference: G2148

Research Activities: Heterojunction solar cells

Candidate: Post-doctoral fellowship in silicon group

Location : Benguerir

Duration : 24 months

Eligibility : Titular of a PhD in Silicon Solar cells

DESCRIPTION

As part of the Heterojunction Project, GEP is opening 1 funded post-doctoral fellowship in the silicon group.

INFORMATION ABOUT THE RESEARCH GROUP

The research group "Silicon" at Green energy Park in Benguerir, Morocco, focuses on the synthesis and characterization of silicon-based materials for applications in Photovoltaic solar cells, biofuel generation and water treatment. We have well equipped labs for synthesis and material characterizations. The Heterojunction project of our group aims at developing low-cost and scalable high-efficiency amorphous-silicon / crystalline-silicon solar cell and module technologies. This activity currently comprises a team of Four people and is foreseen to grow to seven persons in the near future. We are presently looking for a specialist in the field of heterojunction solar cells.

MAJOR RESPONSIBILITIES

Based on your expertise within photovoltaics, you will take up the responsibility for the development of process flows for advanced and novel types of crystalline Si based heterojunction solar cells and modules. This comprises a number of tasks:

- Responsible for continuously enhancing the expertise level in the field of heterojunction solar cells and modules with crystalline Si base
- Responsible to supervise master and PhD students
- Responsible to develop the path towards very high efficiency heterojunction solar cells based on a quantification of the remaining losses (optical losses, recombination at interfaces and the bulk, resistance losses, ...)
- Responsible for communicating internally and externally the results of the heterojunction research via scientific presentations and publications.

QUALIFICATIONS

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To be qualified for the position of postdoc, the candidate should:

- Have a Ph.D. or equivalent in photovoltaics, material science or another relevant field.
- Have a lot of experience in (heterojunction) cell processing and cell development.
- Be fluent in English
- Have excellent communication and educational skills.
- Be highly motivated, have a problem solving/creative attitude and find pleasure in collaboration with others.

The candidate should send the following documents to contact@greenenergypark.ma

- A curriculum vitae;
- Copies of university degrees
- 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.