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by Ester Maria Loi

REF. N. 05_18

Job Description:

Job title: 1 PhD position in PHYSICS

Name of Organisation: Helmholtz-Zentrum Berlin für Materialien und Energie - Institute Competence Centre Photovoltaics Berlin (PVcomB)

Country: Germany

City: Berlin

Main research fields: Physics

Sub research fields: PV system early failure and degradation analysis

Application deadline: 22/04/2018 23:00 - Europe/Brussels

Required Education:

Master degree in relevant subject

Language skills:

Required languages: English

Level: Good

Required research experiences:

- Expert in programming;
- Experienced in big data analysis;
- Experienced in yield measurements of PV systems.

Application details:

Job description:

At the PVcomB the research group develops technologies for photovoltaics together with industrial partners. The growing research group Outdoor Performance has numerous challenging new tasks and is, thus, searching for new motivated self-reliant and dynamic researchers.

Photovoltaic (PV) is an established part of the electrical energy mix. This large market share systems brings about a high demand on reliability. Yet, significant yield losses can occur due to operational failures. This thesis aims at identifying early degradation fingerprints in acquired PV data for failure analysis.

Tasks:

- Acquire measurement data;
- Filter and analyze large amounts of data (own and other PV systems);
- Identify early markers of degradation and system failures of PV systems.

Duration of job: Fixed term contract for 36 months

Status: Full time

Salary: The salary is based on the Collective Agreement for the German Public Service (TVöD-Bund)

Additional requirements:

The working group particularly welcome applications from women.
Preference will be given to handicapped applicants provided equal suitability.