



Internship #2015-I3

Electrical Engineer Intern

Address: Klokgebouw 112
5617 AB Eindhoven
The Netherlands
Telephone nr.: +31 (0)638 764 731
Email: info@ibispower.eu

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Company Description

IBIS Power is a company developing renewable energy technologies in a most effective and acceptable way for society. Our motto is "Redesigning Renewable Energy", where we take state-of-the-art technology and transform it with added value into products that have highest impact in society towards a green and healthy future. Our team exists from scientist, engineers and architects who work together in R&D and project management to marketing and sales people focusing on implementation and supplying society for highest impact. The recently received EU project includes the complete R&D and business development for the European market of an innovative energy system for the built environment.

Internship

We offer a full-time internship for an Electrical engineer student coming available per **Sept 1st, 2015**. The internship in IBIS Power is carried out with the objective to optimize the electrical grid of the Integrated Roof Wind Energy System (IRWES). During the project, the optimized design will be tested in real pilot projects, and the results and the conclusions will be presented and documented in a report. You will work in the R&D team of IBIS Power, and will participate in ongoing projects.

The project

Ibis Power is currently preparing the accomplishment of the first IRWES pilots. In order to fulfill this goal, the IRWES needs to be integrated and connected to the electrical grid of the particular building. The work will consist of optimizing the applicable micro grid for a hybrid renewable energy system including solar and wind energy and implement the model in pilot projects. The proposed work will exist of:

- Create a model of micro energy grid including IRWES,
- Implement the model in pilot projects,
- Optimize the model in order to power and cost efficiency,
- Include solar energy system in the model,
- Optimize wind turbine electrical performance,
- Make an energy potential prediction and compare result with field measurements,
- Assist at build of electrical connection of projects,
- Assist at installation of measurement equipment and testing of IRWES,
- Create data logging plan, and assist ICT engineer in data analysis,
- Optimize testing and validation

Requirements

- Pursuing a Bachelor's or Master's degree in Electrical Engineering
- Profound English verbal and writing skills
- Independent worker, but well performing in a team
- Good communication skills
- Skillful in using your hand and doing small jobs

If you are interested, please send us a personal motivation letter and Curriculum Vitae.