



Sinusstrom GmbH – Access to renewable energies

We offer

A student research paper/ Diplom thesis with the following topic „Modular guided MPP-Tracking for central inverter based photovoltaic large plants“ to a student of Engineering sciences (Electrical or Industrial engineering)

- Referring to a patent application you develop and explore a new MPP-Tracking-Regulation System for central inverter based photovoltaic large plants.
- Based on relevant literature you examine the current techniques and refer to the given concept.
- With the help of a software you simulate the expected returns and compare them with common concepts.
- Create a technical concept and optimise the plants as well as optimise and define a concept (combination of components – evaluation, connection scheme and concept, etc).
- Evaluation of the concept from technical and economical points of view.

Your profile:

- Student of electrical engineering or business engineering with passed intermediate examination or Bachelor (university or technology institute preferred)
- Interested in regenerative energies
- Ideally experiences in fields of electrotechnics-simulation software, connection techniques and micro-controller
- Very good technical understanding
- Certain handling of MS-Office products
- Experiences in composing scientific papers (e.g. seminar essays and so on)
- We expect English knowledge of sufficient standard to write scientific papers (thesis may be written in English as well)

Additional requirements:

- Quick comprehension
- Very independent and structured, organised way of working
- Committed to gain recognition and ability to communicate
- Likes to work in a team
- What we offer:
- Work within a team of specialists out of the photovoltaic segment
- Research of a new, economically highly relevant topic; possibility to publish papers from the thesis
- Intensive mentoring of the thesis and help with structuring
- Transfer of necessary specialist knowledge
- Insight in the conception of large plants
- Participation in practical activities in the areas of facility projection, operations management and optimisation of solar plants
- The cooperation with your Institutes of the university is highly desired.

If you are looking for an interesting field for your thesis and if you like working in a young, dynamic team, please send your complete application documents (letter of application, photo, intermediate examination or last performance record, further certificates) to us. The offered Diplom thesis or student research paper is highly relevant within the photovoltaic industry, and demands a high level of professionalism from potential candidates. Therefore, we would appreciate to receive a paper which you have already created by yourself or in cooperation with others (Bachelor thesis, seminar paper or similar).

Please send your complete application documents by e-mail to Mr Wolfgang Schwarz (schwarz@sinusstrom.com).