

## Vacancy

**Shape the photovoltaic technology of tomorrow in a young and highly motivated team.**

The **International Solar Energy Research Center Konstanz** is a research institute with about 60 employees for the development of solar cells, solar modules and renewable energy systems. We are an experienced team of scientists, engineers and students. We have state-of-the-art processing and characterization facilities and many years of experience with PV systems and smart grid applications. In national and international research projects we cooperate with the leading international institutes and companies in the photovoltaic industry. For more information visit our website: [www.isc-konstanz.de](http://www.isc-konstanz.de).

As soon as possible we desire to fill the vacancy of a

### **Master thesis student in engineering or physics**

f/m/d

The position is limited to 6 month.

You will be part of a team of scientists who are developing future manufacturing processes for solar cells and modules.

You will develop a process for the laser enhanced contact optimization (LECO) between the solar cell and its metal contacts. This requires variations of the diffusion process of the solar cells, its metallization and the laser process. The goal of the work is to understand the interdependencies between all process steps and increase the efficiency of the solar cell. Primarily the development will focus on TOPCon solar cells, which ideally can be transferred to both side poly silicon passivated solar cells or IBC/TBC solar cells.

To evaluate and improve the quality of the various processes you will apply different characterization tools and techniques.

#### **This is how you will be implemented in our team:**

- After on boarding you will be involved in one work package of a research project,
- planning, execution, analysis and reporting of experiments under supervision,
- For some time you will also help out in various other research activities of our institute

**This is how you inspire us with:**

- Student (f/m/d) in Engineering or Physics
- Enthusiasm towards experimental work and scientific discussions
- Hands on mentality
- Independent and goal oriented way of working with a sense for team play
- Ideally already first practical experience in the field of photovoltaics
- Creativity and improvisation skills
- Good German and/or English skills in word and writing

**We offer you:**

- A structured induction and supervision of your master thesis
- A high degree of responsibility, a friendly and motivated team that will support you.
- The possibility to contribute a meaningful part for the development of photovoltaics

Please send your application with the usual documents and the note **SELF!**, preferably by e-mail - to ISC Konstanz e.V., Rudolf-Diesel-Straße 15, 78467 Konstanz; [petra.weber@isc-konstanz.de](mailto:petra.weber@isc-konstanz.de).

For questions, please contact Mr. Pirmin Preis via email [pirmin.preis@isc-konstanz.de](mailto:pirmin.preis@isc-konstanz.de) or phone +49 (0)7531 - 36183 - 310