

Vacancy

Shape the photovoltaic technology of tomorrow in an experienced and highly motivated team.

The **International Solar Energy Research Center Konstanz** is an institute for photovoltaic research founded in 2005 with currently 50 employees. We are a dynamic and experienced team of scientists who have emerged from the photovoltaic group of the University of Konstanz. We have state-of-the-art process and characterization equipment. In national and international research projects, we work together with the leading international institutes and companies in the photovoltaic industry. For more information, please visit www.isc-konstanz.de.

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

Expert for PV-modules

(Scientist or Engineer)

m/f/d

The position is initially limited to three years (project duration).

You belong to a team of scientists who are researching flexible and cost-effective manufacturing processes for silicon solar cells and modules as part of a publicly funded R&D project with industrial partners.

You are researching industrially feasible methods for interconnecting solar cells to form cell strings; on the one hand classically with cell connectors, and on the other hand on the basis of the shingle concept. The cell strings in shingled modules consist of cell strips whose mechanical and electrical connection is realized at overlapping edges. As part of the project, you are expanding the functionality of an existing laboratory tool based on "pick and place" processes, researching new cell interconnection processes and, together with the project partners, evaluating new jet-dispensable materials that can be used as an alternative to conductive adhesives for cell interconnection. The aim of the project is to create a concept study for a cell joining apparatus as an alternative to the currently used high-throughput equipment (so-called stringers). The focus is not on the throughput (cells/hour), but on the flexibility of the system with regard to the processing of different cell formats and in realizing different interconnection types. Furthermore, you will be responsible for the operation and maintenance of various complex processing tools for module production.

You will be involved in:

- After the induction phase, you will be responsible for processing a publicly funded project.
- Design, execution, evaluation and documentation of experiments.
- Further development of a "pick and place" based laboratory tool.
- Operation and maintenance of process equipment for module production.
- Processing of customer orders such as experiments or prototype production.
- Writing project reports and scientific publications.
- Collaboration in the implementation of our technology in worldwide transfer projects as part of a ramp-up team.
- For a limited period of time, you will also help out in other subject areas of the institute if necessary.

Your profile:

- Enjoy experimental work and scientific discourse.
- Practical skills and a pronounced hands-on mentality.
- Independent and goal-oriented way of working, high ability to work in a team.
- Practical experience in the production and characterization of c-Si solar modules.
- Creativity and a gift for improvisation.
- Master's degree or diploma in engineering, physics or a comparable degree, a completed doctorate on a relevant topic is advantageous.
- Good abilities in written and spoken German and English, a confident manner and strong presentation skills.
- Willingness to travel internationally, including for several weeks.

We offer:

- Remuneration in accordance with the provisions of the TV-L (Tarifvertrag der Länder West).
- Professional induction
- A high degree of personal responsibility, short decision-making processes and exciting projects
- The opportunity for professional self-realization, open, family-like institute culture
- Flexible working hours with the possibility of home office days
- Continuing education
- An extension of employment is desirable with given funding.
- and much more.

A subsequent extension is possible with the appropriate situation e.g. when financing via a public funded project is secured.

Please send your application with relevant documents, preferably by e-mail, to the ISC Konstanz e.V., Rudolf-Diesel-Straße 15, 78467 Konstanz; **petra.hoffmann@isc-konstanz.de**.

For questions, please contact Mr. Andreas Halm: andreas.halm@isc-konstanz.de or +49 (0)7531 - 36183 - 50.