

CTF SOLAR GmbH is a leading developer and supplier of CdTe technology for thin-film solar modules. We take processes developed on a laboratory and pilot scale and turn them into industrial production techniques, teaming up with specialized partners to design the corresponding machinery.

CTF SOLAR GmbH provides technology for production lines manufacturing CdTe thin-film solar modules all around the globe, predominantly in China. This involves the planning for and implementation of the entire process and metrology equipment as well as the selection and qualification of equipment and raw material suppliers. Operations are underway in our first high volume manufacturing factory in Chengdu, China, with an annual capacity of 100 MW_p and construction work on other CTF SOLAR technology Fab projects with a combined capacity of >1 GW_p started already.

Currently with around 55 employees from over ten different countries, CTF SOLAR GmbH is fully owned by Chinese company CTIEC, one of the world's Global Top 200 Engineering Companies based in Shanghai.

To support our further growth, we would like to expand our R&D team in Dresden and are therefore looking for an:

PostDoc / R&D Scientist (m/f/d)

Your responsibilities:

- Research on the technology for CdTe thin film solar cells and modules
- Experiment planning, data analysis and reporting of scientific results
- Participate in the design and specification of new equipment for solar module production
- Propose and participate in the evaluation of technology development and methodology improvement programs for the entire production process of Thin Film Solar Modules
- Support for the ramp up of production lines world wide
- Attend conferences, fairs, etc. Travel will vary, but generally will require world-wide trips
- Generation of patents and know-how

Requirements:

- University degree in physics, materials science or similar with expertise in semiconductor technology or photovoltaics (PhD is desired)
- Proven track record as a successful scientist for solar cells, preferably CdTe technology
- Extensive practical experience in solar cell and material characterization
- Knowledge on solar cell simulation
- Experience in programming (e.g. python, MySQL, Minitab)
- Statistic process analysis, analysis of large data sets and design of experiments (DoE)
- Technical expertise and intrinsic motivation
- Passion about solving scientific problems
- Good command of MS Office and software for data analysis
- Communication skills and be willing to cooperate
- Fluent in English, German language skills are a plus
- Experience in working in interdisciplinary, international teams; have an interest in other cultures
- Willing to travel to conferences, fairs and factory ramp up

What we're offering:

- Exciting projects on tomorrow's energy technology
- The opportunity to work in an ambitious, international team
- A flexible, international and cooperative working environment
- Individual opportunities for further training and development
- A corporate culture in which you can contribute your own ideas, use your initiative and actively help to design processes

How to apply:

If we have sparked your interest, please send us your application documents in German or English, including your earliest possible start date and details of your salary expectations, to the following address: HR@ctf-solar.com