

YOUR BENEFITS

- ››› Gain proficiency in photovoltaics and solar energy engineering
- ››› Study part time and by using e-learning tools
- ››› Program specially designed to accommodate the needs of working professionals
- ››› Master of Science awarded by University of Freiburg
- ››› Qualify for post-graduate studies towards a PhD in photovoltaics
- ››› Study with leading experts of Fraunhofer ISE
- ››› Take a career shift and move into PV sector
- ››› New recruiting option for companies. Why not think about a "Come to us as a Bachelor, we give you the Master"-program?



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Are you interested in further part-time degree programs? Please contact the Fraunhofer Academy.

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MASTER ONLINE PHOTOVOLTAICS

Part Time
Course
of Study

STAY IN YOUR JOB AND STUDY ON TOP

Thank you for your interest in our distance learning program Master Online Photovoltaics. The program is offered by the University of Freiburg in close cooperation with the Fraunhofer Institute for Solar Energy Systems in Freiburg. Our innovative course of study has been designed to meet the intense demand for highly qualified professionals in the areas of photovoltaic research, development and consulting.

We are pleased to invite you to become part of our successful and renowned community of scientists and engineers by studying with outstanding R&D experts in the Master Online Photovoltaics program at one of Europe's leading universities. The convenience and flexibility of our advanced e-learning environment, combined with personal and enjoyable workshops and events in Freiburg will ensure that both employers and employees benefit from this educational program.

Yours sincerely

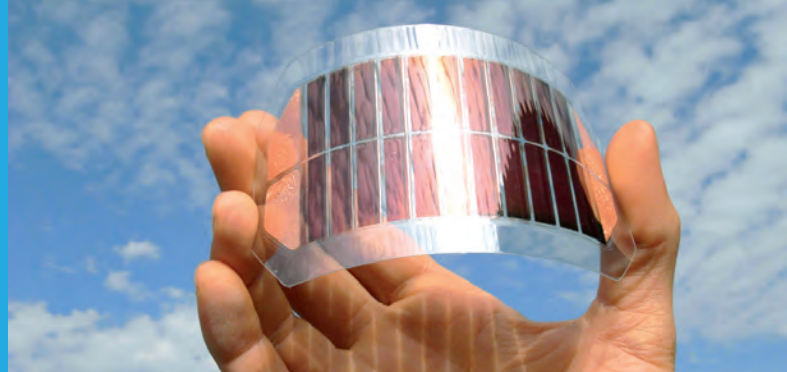
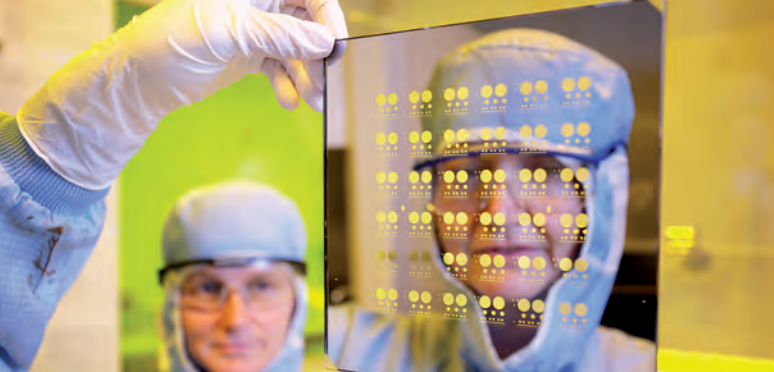


Prof. Dr. Leonhard Reindl

Program Director "Master Online Photovoltaics"

Partner University





OVERVIEW

The Master Online Photovoltaics provides profound insight into the physics, technology and system design of solar energy engineering. It enables students to develop, design and optimize semiconductor devices and photovoltaic systems with respect to efficiency, cost and lifetime. Excellent researchers from the Fraunhofer Institute for Solar Energy Systems (ISE) and the University of Freiburg provide courses based on the latest scientific and technological knowledge.

Study part time – from all over the world

You will spend most of your time studying online – from any place in the world. Downloadable scripts and e-lectures give you the freedom to use free time slots on business trips and train rides for your education and career building.

Hands-on experience at Fraunhofer ISE's labs

The highlight of the program is a short campus phase offered at the end of each semester. You will get the chance to meet teachers and fellow students personally and experience hands-on training in Fraunhofer ISE's labs. Invited speakers from science and industry will bring you deeper into the photovoltaics community – a community that is growing in number and importance.

CONTENT

The Master Online Photovoltaics teaches

- Physics and Technology of Photovoltaics
- Design of Solar Cells and PV Systems
- Practice-oriented in-depth knowledge

Content of Main Curriculum

Mandatory Courses

Fundamentals of Solar Cells and Systems	9 Credits
Material and Solar Cell Characterization	5 Credits
Electronics for Photovoltaic Systems	6 Credits
Crystalline Silicon Photovoltaics	10 Credits
Thin-Film and Concentrator Photovoltaics	7 Credits

Electives (Select 2 out of 3)

Renewable Energy Systems and Smart Grids	4 Credits
Device Modeling and Advanced Characterization	4 Credits
Advanced Processing and New Cell Concepts	4 Credits

DURATION

Our program takes you from a Bachelor's degree to a Master's degree in only three years part-time studies. Shifting your career into the PV sector takes only two years part-time studies if you already own a fitting Master's degree.* So stay in your job and study on top.

	1 Year	2 Years
Bachelor Degree	Prep	Main
Master* Degree	–	Main



* Restrictions apply. Please see www.pv-master.com for details.

ADMISSION REQUIREMENTS

Target group: The Master Online Photovoltaics program is designed for professionals in

- Research & Development
- PV Equipment Production & Automation
- Technical & Business Consulting

Degree: The University of Freiburg awards a Master of Science degree upon successful completion. This degree qualifies you for further post graduate work towards your PhD, irrespective of your qualifications prior to entering the Master Online program.

Accreditation: The program's accreditation is granted by the agency ACQUIN.



Admission Criteria

- An academic degree in a scientific or technical field
- One year of professional experience

Course fee: 12 500 – 22 500 €

Application Deadline: September 1 each year. Courses start in October.

Apply now: www.pv-master.com