

SOLAR-TRAIN is an innovative project focused on durability and life time assessment of photovoltaic modules. As part of the H2020 Marie Skłodowska-Curie Actions (MSCA) Innovative Training Networks (ITN) SOLAR-TRAIN invites applications for 14 Marie Skłodowska Curie fellowships starting in March 2017. The successful candidates will join the project as early stage researchers (ESRs) for three years with the possibility to enroll a PhD programme and finish with a PhD thesis.

EURAC is an applied research centre located in Bolzano, South Tyrol, Italy, in a surrounding offering a high quality of life. The **Institute for Renewable Energy** conducts applied research on advanced energy systems, based on or including sustainable energy sources in working conditions which allow professional growth and know how acquisition with career opportunity as applied researcher. The **PHOTOVOLTAIC ENERGY SYSTEMS group** is active in the analysis of solar resources, performance and reliability of PV modules and systems and their integration into buildings and the electricity grid.

As of **March 1st** the following Marie Skłodowska Curie fellowship will be assigned:

Uncertainty in PV Energy Performance: a Framework to Link Technical Failures, Outdoor Effects and Degradation with Financial Indicators

The overall objective for this project is to advance the state of the art on how improved models for the quantification of outdoor performance effects and degradation can help operation and maintenance in improving PV financial figures. The ESR will develop methods for failure detection based on deviation from modelled performance, will assess the economic impact of failures and will apply different models for the determination of degradation. The results will be used to link performance with financial parameters. Thus, the ESR will be given a full overview of the various aspects of PV system operation not restricted to engineering issue. The ESR will be able to bridge the gap between technical risks and economic impact for insurance companies and investors operating in the field. Specific objectives are:

- ✓ Comprehensive knowledge in the field of failure detection, operation & maintenance and economic impact
- ✓ To provide a methodology that links measurement/model uncertainty in PV system performance with financial parameters as input to business models

Your profile

- ✓ Higher degree (MSc, Diploma) in physics, engineering or mathematics that qualifies for enrollment to a doctoral programme
- ✓ Compliance with the mobility rules laid out in the [MSCA ITN guidelines](#): At the time of recruitment, candidates **must not have legally resided or have had their main activity** in the country of their host organization for more than 12 months in the last 3 years
- ✓ Good knowledge and skills in spreadsheets and database software. Familiarity with PV monitoring systems will also be appreciated
- ✓ Basic knowledge in statistics, economics principles and methods
- ✓ Openness for interdisciplinary collaboration and topics
- ✓ Willingness to move to countries within EU for ESR placement and temporary secondments
- ✓ Fluent in English. Basic Italian or German would be appreciated but not required

Application

Please apply till **11 December 2016** according to the instructions on project website www.solar-train.eu

Please attach, after reading the [privacy policy](#), the following consent to your personal record, in accordance to the data security decree 196/2003 about personal data handling: 'I have read the privacy policy under <http://www.eurac.edu/en/aboutus/Jobs/Pages/default.aspx> and hereby authorize EURAC to use my personal data in accordance to decree 196/2003.'