

## Job offer

# Student assistant/Thesis project (M.Sc.)

## Transformation of Energy Systems

Reiner Lemoine Institute is an independent non-profit research institution that contributes to a transformation towards a sustainable energy supply based on 100 % renewable energy. Our three research fields are *Transformation of Energy Systems*, *Mobility with Renewable Energy*, and *Off-Grid Systems*. We conduct applied research to scientifically support the long-term transition of the energy supply system towards renewable energy.

We are offering a position as **student assistant** in the Research Field **Transformation of Energy Systems** starting April 2019 in the following project:

## Analysis of micro-scale concentrator photovoltaics integration into energy systems on local and European level in comparison with state-of-the-art technology

The position is to be filled for a period of 6 months. There is the option to write a **master's thesis** based on the research conducted in this position.

### Description:

The EU-funded research project [GRECO](#) aims to enhance the integration of photovoltaic (PV) energy into energy systems by extending the useful lifetime of installations, making technologies more affordable, demonstrating very competitive applications and increasing the social knowledge about the relevance of PV energy in a more sustainable world. During the project, three innovative PV technologies are developed and analyzed with regard to their integration into the energy system. One of these new technologies is micro-scale concentrator photovoltaic (micro-CPV) with integrated micro-tracking, which promises high efficiencies at low costs.

You will focus on analyzing the integration of the innovative CPV technology into energy systems on local and European level while contemplating its potential to develop Net Zero Energy Buildings. This implies, amongst other things, a comparison of CPV with state-of-the-art silicon modules concerning energy production and matching of demand and production for different time scales and locations. The analysis will be conducted within the Open Energy Modelling Framework [oemof](#).

### Requirements:

- The ideal candidate will be a student of (energy) engineering, physics, or a relating field of study
- Programming skills are required, ideally in Python
- Previous experience in modeling energy systems advantageous
- We expect the candidate to work independently, systematically, and thoroughly with minimal supervision and to communicate and document research results on his/her own.
- The candidate should be fluent in English or German

### What we offer:

- A friendly and open work environment with a young and diverse team (currently about 70 employees of which around 25 are students)
- Academic support and supervision
- Flexible working hours
- Office on the Science Campus Adlershof, excellent public transport access

#### Kontakt:

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Berlin, 21. Februar 2019

**Contact:**

Kindly send your application as soon as possible (cover letter, CV, transcript of records) via e-mail only, in one PDF file to the contact above. Please indicate the reference number „**Transformation\_56\_210219**“ in the subject line.

Questions regarding tasks and scope of the work are answered by Sabine Haas: [sabine.haas@rl-institut.de](mailto:sabine.haas@rl-institut.de).