Masters thesis for Analysis of suitable application cases for hydrogen systems as seasonal storage in Thailand (m/f/x) - application of the Offgridplanner tool

Stellenanbieter: Reiner Lemoine Institut gGmbH

Masters thesis for Analysis of suitable application cases for hydrogen systems as seasonal storage in Thailand

application of the Offgridplanner tool

We are offering a Master's thesis within an ongoing research project on sustainable energy solutions in Southeast Asia. The thesis will investigate potential application cases for hydrogen as a seasonal storage solution in Thailand, using the Offgridplanner tool.

The objective is to analyse different island contexts, including the number and types of energy customers, settlement structures, and other relevant local conditions, alongside techno-economic parameters. Based on this analysis, the thesis will identify suitable use cases for hydrogen system integration and develop and assess different scenarios using the Offgridplanner tool (offgridplanner.org).

The thesis is embedded in a larger research project and offers the opportunity to contribute to an applied and internationally relevant topic at the intersection of energy systems, sustainability, and development.

More information about the project can be found on the project website.

Your tasks:

- Writing a Master thesis
- Develop scenarios to be analysed with e.g. demand, settlement structure, technoeconomic input parameters as variables
- Identify suitable application cases for hydrogen as seasonal storage within Thailand by applying the offgridplanner tool to the above developed scenarios

Your profile:

- Candidates must be enrolled in a master's degree program, preferably Energy Systems, Renewable Energy, Industrial Engineering, or a related relevant field
- Residence and right of abode in Germany is required
- Excellent English language skills are required (C1)
- Identification with the RLI Values

The following experiences are a plus but not must:

- Initial experience with energy system modelling
- Knowledge of hydrogen systems, mini-grids, or renewable energy infrastructure;
- Python skills
- Interest in Southeast Asia and cross-cultural research contexts
- Thai language skills
- Residence in Berlin

We expect successful candidates to work independently, systematically, and thoroughly with minimal supervision.

What we offer:

- Friendly and open working atmosphere in a young, interdisciplinary team (around 80 people currently work at RLI, including around 25 students)
- A transparent and participative corporate culture
- Location on the Adlershof science campus with excellent public transport connections
- Possibility of mobile working / flexible working hours without core hours and flexible working locations within Germany by arrangement
- Vacation days according to statutory vacation entitlement
- RLI Christmas party / end-of-year party - a highlight for all employees
- Internal training opportunities and professional support / further development
- Regular RLI days at Tempelhofer Feld or other locations with a wide range of workshops
- Participation in the Adlershof health network - free impulses as part of company health management

General condition:

- Start of work on 01.08.2026 or by arrangement
- Contract as student assistant for a duration of 6 months
- Expense allowance of 542,50 € per month
- Experienced supervision and support during the thesis

Are you interested in this position?

Then upload your complete application documents (cover letter, CV, certificates, etc.) in a PDF file via the “Bewerben / Apply”-button in our job portal:

119_O_StudAssistant_KOhJik_OGP

We look forward to receiving your application!

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Sonstiges: 119_O_StudAssistant_KOhJik_OGP

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