Chair of Renewable and Sustainable Energy Systems
Department of Electrical and Computer Engineering
Technical University of Munich

Working student (HiWi)

Assistance in the Geothermie-Allianz Bayern (GAB) project

Background

Deep geothermal energy in Bavaria shows promise for future expansion, demonstrated by increasing implemented and planned projects. To maximize its economic viability, efficient year-round utilization of the significant geothermal potential is essential. Deep geothermal energy is particularly beneficial for urban district heating, facilitating decarbonization and improved utilization through networked heat sources. Expanding beyond the southern Bavarian Molasse Basin and integrating innovative concepts will unlock untapped potential. Ensuring reasonable integration into the existing energy system is a key consideration.

We are currently looking for a student who will assist the project workflow by supporting the research work packages and some organizational tasks.

Research work packages

The tasks will be defined dynamically, depending on the focus in the project at a given time. The work packages include:

- The potential of geothermal energy as a district heating technology for Bavaria, aiming to assess its feasibility and effectiveness in meeting the region's heating demands.
- Formulate energy scenarios for Bavaria's comprehensive energy model that includes the results of the LCA of heat technologies.
- Energy system modelling from Bavaria.

In addition to working on these work packages, you will also get in touch with the overall progress of the project, such as participating in meetings or supporting to prepare presentations and reports.

Requirements

- Long term commitment to the project (at least one semester)
- Rapid adaptability to and curiosity for different tasks
- Familiarity with energy system modelling
- Knowledge of Python and Excel
- German and English knowledge is required

The salary is based on the usual Hi-Wi tariff, and the working hours are at least 8 hours per week. Possibility to work from home to a certain extent.

Please attach your CV. The selected candidates will be called for an interview.

Contact

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