

22J008 – Student assistant

Title: Power system and power market database and visualization

Context

The European Institute for Energy Research was founded by EDF and the KIT in 2002 aiming at enhancing collaboration through joint projects applied to industrial issues. With its applied research orientation EIFER is bridging the gap between science and industry since more than 15 years. In the context of the European energy transition, EIFER provides research-based innovative energy solutions for the sustainable growth of cities, local communities and industries.

The team “Policy Analysis and Energy Market Studies” is looking for a student (f/m/d) interested in providing support in building a database and visualizations for power system and power market data.

The team heavily relies on clean data to perform data analysis for its research and consulting activities. These data must be extracted from different sources, cleaned and stored in order for it to be useful for the team. To this end, a Python package is being developed.

The assigned tasks involve

- Further development of a Python package taking over ETL task
- Database normalisation
- Working on new functionalities such as integration to visualisation tools and user interfaces (e.g. Grafana, Dash, PowerBI)

Required qualifications / skills

The typical profile expected for this position is:

- Enrolment in a degree in software engineering or engineering
- Proven knowledge of
 - o at least one mayor programming language (Python, Java, JavaScript, etc.)
 - o SQL concepts
 - o version control (Git)
- Professional working proficiency in English (institute’s official working language). Knowledge of German would be of value.
- Proven interest in the power system and power markets

What you can expect

- A stimulating human-size, multicultural and multidisciplinary environment
- An institute at the intersection between academic research and one of the largest energy utilities
- A wide spectrum of topics, projects, technologies, external partners
- A contribution to the key challenge of our era: fight against climate change through the decarbonation of the energy supply

Conditions

- Duration: 6 months (possibility for extension)
- Starting date: as soon as possible
- Location: EIFER, Emmy-Noether-Str. 11, 76131 Karlsruhe, Germany or remotely
- Working hours: up to 40 hours per month
- Remuneration: 460 € basis, hourly rate depending on the student´s education level

Contact

If you want to join our motivated team, please forward your electronic application with one single PDF of max. 5MB to jobs@eifer.org (cover letter + curriculum vitae). Please refer to the offer number **22J008**.

For additional information concerning the work please contact Agustín Motte Cortés, Tel.: +49 721 6105 1437, agustin.motte-cortes@eifer.org