19J009 Student Assistant (F/M/D)

Title: Cluster analysis on regional wind feed-in pattern – The interaction of wind generation with wholesale electricity prices

Background
The European Institute for Energy Research (EIFER) was established as collaboration between the Karlsruhe Institute of Technology (KIT) and Électricité de France SA (EDF) and is located in Karlsruhe, Germany. Today EIFER has a multi-cultural team of more than 100 employees. A working group of data scientists and energy economists is currently looking for a student who is interested in data science related to renewable energies and electricity markets.

Position description
The student will be part of a project's team currently working on analysing regional wind pattern in Germany. The work will include two main aspects:
- Literature research on clustering methods and electricity markets
- Applying clustering analysis
- Result processing and visualization

Required qualifications
- Student in the area of computer science, engineering or/and economics
- Advanced programming skills (Python, R)
- Experience with relevant data processing and analytics libraries (e.g. pandas, sklearn, dplyr, etc.) is favourable
- Interest and knowledge of electricity markets, renewable energies and regulation
- Fluent English (oral and written) and good knowledge of German is mandatory

An interest in data analytics and a techno-economical background is appreciated.

Conditions
- Duration: 6 to 7 months, depending on the student’s availability
- Working hours: 40 hours per month
- Start: as soon as possible
- Remuneration: 460€ gross per month
- Place of work: EIFER, Emmy-Noether-Str. 11, 76131 Karlsruhe

Contact
If you want to join a highly motivated research group, please submit your electronic application with one single pdf of max. 5MB (including all relevant information as CV, copies of testimonials etc.) to jobs@eifer.org with reference to the offer number 19J009!

For additional information concerning the work please contact Manuel Eising, Tel.: +49 721 6105 1375, manuel.eising@eifer.uni-karlsruhe.de