

## **20J016 Student assistant f/m/d**

### **Title: Estimating the employment effects of the hydrogen economy, with a focus on electrolyser and fuel cell projects**

EIFER (European Institute for Energy Research EDF-KIT EWIV) was established in 2001 as collaboration between the Karlsruhe Institute of Technology (KIT) and Électricité de France (EDF). Today EIFER has an international team consisting of more than 100 researchers. The “Energy Transition, Markets, Environment” and “Low Carbon Hydrogen Systems” groups are currently looking for a student interested in working in the field of renewable energy economics.

#### **Context**

Hydrogen and fuel cells are on the verge of becoming alternatives to traditional fuels and batteries, with detailed strategies for large-scale investments put forward by the German and French governments as well as the European Commission. Important questions arise from these investments, for example where the future industry will be located, which regions will benefit most and what parts of the hydrogen economy create the biggest employment effects.

The student will work with the hydrogen and the value creation teams, helping them understand the value creation, and especially employment, effects of hydrogen and fuel cell infrastructures in the context of a European market. This activity is part of an ongoing project, aiming at further developing a model for estimating the employment effects.

#### **The assigned tasks involve**

- Decomposition of fuel cell and hydrogen electrolyser value chains
- Definition of industry development scenarios
- Work on indirect and induced employment effects
- Improving and testing the methodology and its results
- Prototyping of an employment estimation tool

#### **Required qualifications**

- Student of economics or industrial engineering (or related fields)
- Knowledge of the hydrogen and fuel cell sector is a plus
- Fluent in English and German (French would also be an asset)
- MS Excel knowledge is a must, Python or other programming skills are an asset

#### **Conditions**

- Duration: 9 months, starting as soon as possible
- Working hours: 39,5 hours per month, exact hours depend on student's education level
- Remuneration: according to KIT rules; exact hourly rate depends on the student's education level
- Location: EIFER, Emmy-Noether-Str. 11, 76131 Karlsruhe, Germany

#### **Contact**

If you want to join a highly motivated research group, please submit your electronic application with one single pdf of mx. 5MB (including all relevant information as CV and cover letter, in English) to [jobs@eifer.org](mailto:jobs@eifer.org). **Please refer to the offer-number 20J016.** For additional information concerning the work please contact Sebastian Weber, [sebastian.weber@eifer.org](mailto:sebastian.weber@eifer.org).