

## 23J002 - Internship proposal

### Title: Technology Watch on Hydrogen Start-ups

Are you interested in working on hydrogen?

The European Institute for Energy Research EDF-KIT EWIV (EIFER) is looking for a

#### **Trainee (f/m/d)**

in the research group “Low-carbon Hydrogen Systems”.

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 and utilities’ needs. With its applied research orientation EIFER is bridging the gap between science and industry for more than 20 years. In the context of the European energy transition, EIFER provides research-based innovative energy solutions for the sustainable development of cities and communities, economic activities, and territories.

Hydrogen can be considered both as an energy carrier (energy storage, fuel for transportation devices etc.) and as an industrial raw product used in different sectors of the industry (steel, glass, food, chemicals, plastics, etc.). Electrolysis enables carbon-free generation of hydrogen directly at end application sites and hence it is a promising option for decarbonizing some industry sectors and developing energy smart-solutions for industrial environments/applications. Hydrogen has also been addressed as a good fuel for the development of zero emission mobility since its electrochemical reaction with oxygen in a fuel cell is only producing water.

The student will be in charge of a technology watch, analysis and assessment of hydrogen related start-ups.

### **The assigned tasks involve**

- Scouting of start-ups with business models related to hydrogen and rating their potential according to an already existing tool.
- Implementing the existing tool with graphic representation and further features.
- Creating a user-friendly interface and interactive map, from which the main information of start-ups can be accessed.
- Get in touch with the most promising hydrogen related start-ups to better assess them.

### **Required qualifications, skills, interests**

The position is aimed at Master students in technical/economics sciences with:

- Interest in the field of energy and environment
- Knowledge in energy and economic field
- Fluency in English. Knowledge of German and French are considered as an asset.
- Ability to work autonomously

## What you can expect

- A stimulating, multicultural and multidisciplinary environment
- An institute at the intersection of academic research and one of the largest energy utilities in Europe
- If the opportunity arises: participation to conferences, involvement in scientific publications

## Conditions

- Duration: 6 months
- Starting date: As soon as possible
- Location: EIfER, Emmy-Noether-Str. 11, 76131 Karlsruhe, Germany
- Working hours: 39.5 hours per week
- Monthly compensation: 520 € for a compulsory internship

## Contact

If you want to join a highly motivated research group, please forward your electronic application with one single pdf of max. 5MB including all relevant information (curriculum vitae and cover letter) to [jobs@eifer.org](mailto:jobs@eifer.org). **Please refer to the offer number 23J002.**

For additional information concerning the work please contact:

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