

Job position 21J029

The European Institute for Energy Research EDF-KIT EWIV (EIFER) is looking for a
Postdoctoral position (m/f/d)

in High Temperature Steam Electrolysis, who will integrate the Research Group “*Low Carbon Hydrogen Systems*”.

The position is based in Karlsruhe with a duration of initially 3 years starting **as soon as possible**. The salary is based on qualifications and experiences according to TV-L (100%).

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 for 20 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.

You will be part of the *Low Carbon Hydrogen Systems* research group with around 20 researchers. The activities include research and innovation along the whole value chain of hydrogen technologies, from the development of advanced components to the qualification of integrated system module in terms of performances & reliability through our laboratories and on-field prototyping sites. The activities are fostered by a smart network of academic and industrial partners and a commitment in several national (French and German) and European funding research projects dealing with low carbon hydrogen production and usages.

What you can expect

As a member of the Group *Low Carbon Hydrogen Systems*, you will be involved in:

- Project management
- Experimental work in the laboratory at cell and stack level with electrochemical performance and degradation evaluation to advance the electrolysis technology
- Cell/stack analysis with impedance spectroscopy
- Contribute to advance characterization methods with design and development of innovative techniques
- External presentation of activities via publications and conference contributions

What we expect

- A PhD degree in Material Science/Energy
 - an (electrical) engineering background or an access to corresponding skills would be of advantage
- Skills on experimental work in high temperature technology with solid oxide cells
 - Mid-/long-term testing of cells and stacks
 - Degradation analysis and lowering of degradation
- Material characterization
 - Identification/tracing of degradation processes with impedance analysis
- Skills for implementation & improvement of testing equipment (e.g. cell housings, implementation & optimization of impedance spectroscopy in different testing set-ups)
- Affinity with large scale data manipulation & analysis
- In the context of public funded projects (D/F/EU), efforts are required referring to project acquisition, execution, and reporting.
- Ability to communicate and work in a team, enthusiasm, reliability and independent working style
- The position requires a strong ability for team working in a multicultural environment
- Excellent command of written and spoken English; German or French language skills will be considered an advantage

What we offer

- An international environment as well as a pleasant and open working atmosphere
- Flat hierarchies and short decision paths
- Exciting, responsible tasks and cross-team project work
- Attractive retirement benefits
- Family-friendly workplace with flexible working hours
- Possibility of remote work
- Extensive benefits such as sports offer and staff events

Would you also like to advance applied energy research?

We look forward to receiving your application documents, including a motivation letter (PhD certificate, curriculum vitae, copies of testimonials etc.) until **15 May 2022** by e-mail: jobs@eifer.org

To learn more about EIFER, please visit our website at: <http://www.eifer.org>

For additional information, concerning the work please contact:

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