

## Job position 22J032

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

**CO<sub>2</sub> Valorisation and alternative/bio-fuels production**, who will integrate the Research Group “*Local Multi-Energy Systems*”.

The position is based in Karlsruhe with a duration of initially 2 years starting on **1<sup>st</sup> of February 2023**. 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 projects applied to industrial issues and utilities’ needs. With its applied research orientation EIFER has been 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 a sustainable future.

You will be part of the Local Multi-Energy Systems research group with around 20 researchers. The activities include research and development related to low carbon local energy solutions. On those topics, the group provides:

- energy systems analysis and conceptual work based on technical expertise, lab work, simulation and modelling;
- detailed technical studies on the design, operation and integration of the technologies in the energy systems;
- strategic and economic analysis.

Within the research group *Local Multi-Energy Systems* and in interaction with the research group *Low Carbon Hydrogen Systems*, a specific focus is given on alternative fuels production like bio-fuels and CO<sub>2</sub> based fuels (chemically produced from CO<sub>2</sub> and H<sub>2</sub>).

### What you can expect

- Technical and economic evaluation of bio/e-fuels conversion technologies
- Design and evaluation of “Power-2-X” concepts and their integration in the energy system
- Strategic and prospective analysis on bio-fuels and CO<sub>2</sub> valorisation sectors
- Technical/economic/strategic studies and analysis for EIFER’s clients (operational entities and strategic department of a utility)
- The development of the activity and EIFER’s scientific recognition in the field of CO<sub>2</sub> use and bio-fuels:

- Answer to calls for public funded projects (Horizon Europe)
- Develop EIFER's partnerships (industrial and academic) in this domain
- Publish results in scientific journals and conferences

#### What we expect

- A Master's degree or equivalent in a domain related/close to the topic: chemistry, process engineering, mechanical engineering, environmental engineering
- 2+ years professional experience in the field of hydrogen / biomass / e-fuels is required
- Rigor and respect of the requirements of quality/cost/deadlines
- Ability to work independently and responsibly in a structured way and to convey clear and efficient messages orally and in written
- Service-oriented approach
- A very good level in English and French (both written and spoken) is mandatory and a good level in German is an asset

#### What we offer

- An international and multi-disciplinary environment with a pleasant and open working atmosphere
- Autonomy in organizing own work and cross-team project work
- Flexible working conditions with possibility of part-time mobile office
- Scientific results to be published in international journals and presented on conferences and direct discussion with industrial clients

#### Would you also like to advance applied energy research?

We look forward to receiving your application documents, including a motivation letter (curriculum vitae, copies of testimonials etc.) until **30<sup>th</sup> November 2022** by e-mail with reference to the offer **22J032**: [jobs@eifer.org](mailto: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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