

22J035- Internship proposal

Topic: Nature-based climate change mitigation

The European Institute for Energy Research (EIFER) 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 solutions for a sustainable future.

The team "*Energy Transition, Markets, Environment*" is looking for a student (f/m/d) in the field of nature-based climate change mitigation, which uses ecosystem services to increase carbon sinks. The work is embedded in a research project of the EDF group in collaboration with external partners.

Internship description

Increasing natural carbon sinks will be needed to reach climate neutrality. The student will work in an ongoing R&D project assessing the potential and limits of carbon sequestration in ecosystems. This project aims to monitor the effect of different practices in forests, grasslands, or wetlands on carbon storage in vegetation and soils, biodiversity and the water cycle.

The student will conduct bibliographic work on mechanisms involved in carbon sequestration in ecosystems, and review available data sources and methods on the estimation of carbon storage in forests, wetlands and agricultural ecosystems (e.g. remote sensing, experimental settings, forest growth models, models on soil organic carbon). The student will produce a synthesis report with the findings and interact with the project team and external partners in order to define experimental protocols to monitor carbon storage on the pilot sites.

The assigned tasks involve

- Literature research
- Discussions with the project team and academic partners to set up experimental protocols
- Production of a report to summarize the results (in French with a summary in English)
- Final oral presentation of the results (in French and English)

Required qualifications/skills

- Master's studies or third year of engineering school in agronomy, forestry, biology, or similar qualification
- Rigor and ability to cross-reference data from different sources, critical analysis of data
- Ability to work independently and responsibly in a structured way and to convey clear and efficient messages both orally and in written form
- Strong ability for team work in a multicultural environment and open-mindedness
- Basic knowledge of either ecosystem functioning, forest growth, soil biology, or remote sensing, is an asset
- Very good command of French and English required, knowledge of German is an asset

What you can expect

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

Conditions

- Duration: 5 to 6 months
- Starting date: beginning of 2023
- 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 our motivated team, please forward your electronic application with one single PDF of max. 5MB to jobs@eifer.org (cover letter + curriculum vitae). Please refer to the offer number **22J035**.

For additional information concerning the work, please contact Léa Dieckhoff (lea.dieckhoff@eifer.org).