

Job position 21J034

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

Research fellow (m/f/d)

in energy modeling, who will integrate the Research Group “*Climate Neutral Communities*”.

By designing low CO₂ and resilient energy models integrating all urban issues related to the energy transition, EIFER’s research group “*Climate Neutral Communities*” develops methodologies, models and tools to support local decision making to draft territorial strategic plans for climate neutrality: renewable energy sources integration, best available energy-efficient solutions implementation, urban heat islands mitigation, air quality improvement, low-CO₂ mobility deployment through disruptive local governance schemes. Within this framework, energy planning and modeling are core skills of EIFER.

The assigned tasks involve

- Contribution to R&D projects with strong interaction with various EDF entities (R&D, strategic and operational divisions) and also European partners
- To have a global understanding of territorial stakes with regard to climate change and energy transition
- To be in charge of the data processing, modeling, the programming and the simulation of energy-related topics, such as: energy efficiency and CO₂ emissions at the urban level, renewable energy sources implementation, net zero energy infrastructure, mobility schemes
- To deal with territorial data management, in order to provide suitable input for the prospective analysis through open-data treatment, machine learning, statistical extrapolation
- Contact person for EIFER’s clients and partners to understand their needs, define workplans, communicate results
- To contribute to the valorization of research results in national and international conferences and academic publications

Required qualifications and skills

- The job applicant should hold a Master degree or equivalent in a domain related/close to the topic: energy engineering, modeling and programming, data management, data analysis
- Proven interest in low-carbon energy solutions
- Rigor and respect of the requirements of quality/cost/deadlines
- Ability and motivation for working in a multi-disciplinary project team
- Ability to explain software & programming concepts to experts in research domains that do not program themselves, and help them to formulate software solutions to suit their needs

- Willingness and ability to learn new technologies through autonomous research
- Excellent level (C1) in English is mandatory, good French level would be highly appreciated
- Beginners are welcome

Technical requirements

- Experience in at least one major programming language (e.g. Python, Java, JavaScript etc.)
- Experience in at least one major database system (e.g. PostgreSQL, MSSQL, MySQL etc.)
- Experience with version control (Git)
- Optional experience would be preferred with GIS, Docker, Linux administration and/or unit testing

Why joining EIFER?

- A stimulating human-size, multicultural and multidisciplinary environment
- An institute at the intersection between academic research and one of the largest energy utilities
- A wide spectrum of topics, projects, technologies, external partners
- A contribution to the key challenge of our era: fight against climate change through the decarbonation of the energy supply

Conditions

The duration of the position is initially limited to 2 years, **starting as soon as possible**. The salary is based on qualification and experience according to TV-L (100%).

Contact

If you want to join a highly motivated research group, please submit your electronic application until **15th February 2022** with **one single pdf of max. 5MB** (including all relevant information as CV, copies of testimonials etc.) to jobs@eifer.org **with reference to the offer "21J034"**.

For additional information concerning the work please contact Elisabeth OBE (elisabeth.obe@eifer.org)