

**Research Associate (f/m/d)
in the Field of Energy Economics:
“Effects of innovative mobility concepts on the energy system”**

Job description:

Your primary responsibility is to work on interdisciplinary research projects focusing on techno-economic analyses within the framework of sustainable energy transition. A specific focus of your research is analyzing the impact of innovative mobility concepts on local energy systems:

- Development and application of high-resolution geographical models to analyze energy demand and mobility patterns
- Quantifying the contribution of new mobility concepts to reducing peak loads in local energy grids and improving regional security of supply
- Integration of mobility data in energy system models to analyze public and private charging behavior and flexibility potentials
- Development of strategies to optimize the use of flexibility in the energy supply and to reduce greenhouse gas emissions
- Publication of results in high-class journals

The position offers the opportunity to pursue a doctoral degree.

Personal qualification:

Required

- University degree (master's or diploma) in industrial engineering, business administration, process engineering, economics, mathematics, computer science, or a comparable field of study
- Interest in performing quantitative analyses on energy topics
- Knowledge/experience in the implementation of computer-aided models, such as operations research and machine learning methods or statistical data analysis
- Professional aptitude, a high level of commitment, good self-organization, and good English language skills

Desirable but not a prerequisite

- Domain knowledge
- German language skills

- Our Offer:**
- An attractive and modern workplace with access to excellent infrastructure at the KIT
 - A self-determined and varied job, flexible working time models, and the possibility of mobile work
 - The opportunity to network with national and international cooperation partners in science and industry
 - A wide range of further training opportunities
 - An additional pension (VBL)
 - A subsidy for the JobTicket BW

Salary: Salary category 13 (TV-L E13 of the collective agreement of public service), depending on the fulfillment of professional and personal requirements

Organizational unit: Karlsruhe Institute of Technology (KIT)

Contract duration: Limited to 2 years, extension possible if funding allows

Starting date: As soon as possible

Application deadline: June 30, 2024

Contact person in line-management: For further information, please contact Prof. Dr. Wolf Fichtner (wolf.fichtner@kit.edu).

Application: Please apply online for the job advertisement no. 1220/2024 under <https://www.pse.kit.edu/english/karriere/joboffer.php?id=154034>.

We prefer to balance the number of employees (f/m/d). Therefore, we kindly ask female applicants to apply for this job. Recognized severely disabled persons will be preferred if they are equally qualified.

