Academic Staff Member (f/m/d)
in the Field of Energy Systems Analysis

Job description: Your tasks will include working on interdisciplinary, practice-oriented research projects dealing with the techno-economic analysis and modeling of current developments in the energy system.

The focal points are:
- analyses and modeling of the development of the European transmission grid as well as of selected distribution grids with the aim of maximizing the use of volatile renewables (PV, wind, ...)
- a techno-economic analysis of the development of the European energy system (i.e. power plants and demand side) including sector coupling (heat, mobility, ...) and considering aspects of market design
- perspectives/analyses/modeling of decentralized energy systems (up to the self-sufficiency of individual buildings). This includes aspects of user acceptance in the context of providing flexibility
- detailed mapping of issues related to sector coupling for mobility and transport (e.g. charging profiles, flexibility of charging and recovery, regionally and temporally differentiated ramp-up curves of electric vehicles).

The position offers the opportunity of pursuing a doctoral degree.

Personal qualification: You have a university degree (master or diploma) in industrial engineering, business administration, process engineering, economics, mathematics or a comparable field of study. Furthermore, you are interested in performing quantitative analyses and have previous knowledge/experience in the implementation of computer-aided models (preferably operations research methods). Domain knowledge is an advantage, but not a prerequisite. In addition to professional aptitude, a high level of commitment, good self-organization and good English and German language skills are desirable.

Salary: Salary category 13, depending on the fulfillment of professional and personal requirements.

Organizational unit: Chair of Energy Economics, Institute for Industrial Production (IIP)

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

Starting date: As soon as possible

Application deadline: 31.05.2023
Contact person in line-management: For further information, please contact Prof. Dr. Wolf Fichtner (wolf.fichtner@kit.edu).

Application: Please feel free to send us your detailed application, including your CV and certificates, by e-mail: Applications_Chair_of_Economics@iip.kit.edu.

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.

Karlsruhe Institute of Technology
Personalservice – Human Resources