Job posting

Type of position
☒ scientific
☐ administrative

Target group
☒ graduates
☐ post docs
☐ other

Title
Research Associate Hybrid Energy and Hydrogen (m/f/d)

Institution
TH Köln is among the most innovative Universities of Applied Sciences. We are offering 26,000 students and 1,000 scientists and researchers from Germany, Europe, and across the world an inspiring environment for teaching, research, and scientific work in engineering, the humanities, social and natural sciences. TH Köln stands for social innovation – with this approach, we meet current and future challenges of society. Our interdisciplinary thinking and acting and our local, national, and international activities make us an appreciated and valued partner for cooperation.

Position
as soon as possible | temporary up to 30.06.2023 | part time with 75% | Institute for Technology and Resources Management in the Tropics and Subtropics | Campus Deutz

Responsibilities
• planning and design of a hybrid energy laboratory, including a small electrolysis unit, at the partner university in Niger
• assistance in the installation and commissioning of the system, partly on site in Niger
• scientific research and analysis for the optimization of the system including the execution and evaluation of test series and experiments
• realisation of feasibility studies for green hydrogen production in Niger for local energy supply and export
• support of the project management in the implementation of various measures in the project
• preparation, documentation and publication of research results
• organization and execution of various events, for example on-site application training
• preparation of project reports and management of project / research data
• supervision of the research projects of the students in the project
Requirements

• university degree at master level in engineering or natural sciences
• profound knowledge in the fields of "hybrid energy systems" and "renewable energies"
• comprehensive knowledge in the field of "green hydrogen" (including electrolysis)
• solid knowledge and experience in implementing projects in the energy sector is desirable
• practical experience in project management and scientific publishing would be an advantage
• application of the common MS Office programs, preferably supplemented by knowledge of the common software in the field of renewable energies
• very good knowledge of English, good knowledge of German desirable
• distinctive cooperative working style combined with an independent and analytical approach and high reliability
• willingness to spend 2 to 3 weeks in Niger (2-3 times per year)

Application procedure (deadline etc.)

• compensation according to EG 13 TV-L
• a self-organised PhD with reference to the project is conceivable
• funded research trips to Niger
• a wide range of further education and training opportunities for your professional and personal development
• flexible work schedules
• family-friendly working conditions
• if required, a discounted job ticket for local transport
• prospect of temporary use of a teleworking station (home office)
• opportunity to participate in university sports and health promotion programmes
• Insights into interdisciplinary research contexts and the opportunity for further scientific development
• innovative, forward-looking research topics

Equal employment opportunities are a key value of TH Köln, which seeks to increase the proportion of women in research and teaching. Women are therefore strongly encouraged to submit their application.

In cases of equal qualification, aptitude, and expertise of the applicants, female applicants as well as persons with disabilities or persons with equivalent status will be given preferential treatment.

We look forward to receiving your application!
Application deadline: 09/01/2020
Contact
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www.th-koeln.de/jobvacancies