



Paderborn University is a high-performance and internationally oriented university with approximately 20,000 students. Within interdisciplinary teams, we undertake forward-looking research, design innovative teaching concepts and actively transfer knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our more than 2,300 employees in research, teaching, technology and administration a lively, family-friendly, equal opportunity environment, a lean management structure and diverse opportunities.

Join us to invent the future!

The BMBF-funded interdisciplinary research group ART-D Grids focusses on the robustness and sustainability of the electricity supply based on renewable energy sources in rural areas in East Africa, in particular in Uganda and Tanzania.

For this interdisciplinary project we are seeking:

12 research associates (f/m/d)
from Electrical Engineering (6), Economics (2), Educational Science (2),
Didactics of Technology (2)

(pay scale 13 TV-L 50%)

This half-time position is initially limited to 3 years due to external funding in accordance with the federal state Science Employment Law (WissZeitVG). The contract period corresponds to the approved project period. The opportunity to acquire the doctoral degree (ph.d.) is provided

Your duties and responsibilities (depending on the specific qualifications):

- Research duties in the aforementioned topic areas: technological, socio-economical or educational science related analyses of electrical microgrids in the partner countries Tanzania and Uganda
- Project-related collaboration with the cooperation partners
- Writing & publishing of scientific papers and contributions to the project documentation
- Willingness to travel to the African partner countries for field research in rural areas, fitness for travel to the tropics expected

Your profile, depending on the academic discipline / background:

- Above average university degree in a relevant discipline (Master's degree or equivalent): Electrical Engineering, Economics / Mathematical Economics / Statistics, Educational Science, Didactics of Technology
- Proven ability to and interest in scientific work
- Very good command of spoken and written of English, and of MS Office is required, good knowledge of German is an advantage
- Ability to work independently in teams
- Hands-on experience in rural electrification (islanded micro-grids, power electronics) or rural development projects respectively
- Experience in the use of micro controllers for wireless sensor networks
- Python Programming for Data Acquisition Systems, Data Analysis, Practical experience in operation/maintenance/monitoring of electrical power systems
- knowledge in at least one of the fields of institutional analysis, network economics, game theory or experimental economics
- Scientific qualification and professional experience in education for sustainable development
- Scientific qualification professional experience in dealing with social impacts of (technical) development
- Scientific qualification in the field of didactics of technology

Applications from women are particularly welcome and, in case of equal qualifications and experiences, will receive preferential treatment according to the North Rhine-Westphalian Equal Opportunities Act (LGG), unless there are substantial reasons to give preference to another applicant. Part-time employment is, in principle, possible. Applications from disabled people with appropriate suitability are explicitly welcome. This also applies to people with equal opportunities in accordance with the German social law SGB IX.

Applications with the usual documents and the **reference number 4378** should be sent to:
dorothea.hermann@uni-paderborn.de

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