

TUM SEED Center

Announcement of Two Doctoral Scholarships “Sustainable Energies”

Call for Applications

The TUM SEED Center is an Excellence Centre for Exchange and Development, funded by DAAD and the German Federal Ministry for Economic Cooperation and Development from 2020 to 2029. The TUM SEED Center conducts research and offers higher education at the intersection of Sustainable Energies, Entrepreneurship and Development (SEED) in the Global South. The TUM SEED Center consists of the Technical University of Munich (TUM) and ten leading technical universities across the Global South, including Bahir Dar University (Ethiopia), Bandung Institute of Technology (Indonesia), Burkina Institute of Technology (Burkina Faso), Kwame Nkrumah University of Science and Technology (Ghana), Indian Institute of Technology Bombay (India), Jomo Kenyatta University of Agriculture and Technology (Kenya), Makerere University (Uganda), Namibia University of Science and Technology (Namibia), Pontificia Universidad Católica del Perú (Peru), and Stellenbosch University (South Africa). Through its international and interdisciplinary doctoral program, the TUM SEED Center fosters academic exchange and facilitates excellent research.

This announcement invites master's students from the Global South with excellent academic track records and strong motivation to apply for the **two doctoral scholarships focused on the topics of: (i) Microgrid Energy Management, and (ii) Microgrid Reliability and Stability.**

The doctoral scholarships will address the technical challenges faced by weak microgrid systems. The research tasks will include assessing component reliability, quantifying demand flexibility indexes, and utilizing smart energy management systems to achieve grid stability. The research work also involves Power Hardware-in-the-Loop (PHIL) implementations and testing of control systems, so an interest in experimental setups is expected. The selected and awarded doctoral scholars will be supervised by **Prof. Dr. Thomas Hamacher** from the Chair for Renewable and Sustainable Energy Systems at the Technical University of Munich (<https://www.epe.ed.tum.de/ens/startseite/>).

The SEED doctoral scholarship includes a monthly stipend of EUR 1300, international mobility grants, insurance support, family support for a spouse and children, and annual support. The **duration of the scholarship program is 4 years, starting from 1 June 2025 to 31 May 2029.**

SEED doctoral scholars are expected to:

- Demonstrate a strong commitment to the work as a doctoral student.
- Participate and contribute to the activities of the TUM SEED Center (e.g. annual symposia)
- Engage in academic exchange (i.e., visit and collaborate with partner universities)

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Application requirements:

- Master's degree in Electrical/ Control/ Power Systems Engineering or related fields
- Excellent academic track record
- Extracurricular skills, social engagement, and strong motivation
- **Nationality** from one of the **eligible countries** in the Global South (see [DAC list](#))

Qualified women and individuals with disabilities are particularly encouraged to apply. To apply, please upload your CV, a letter of motivation highlighting the fit to the TUM SEED Center, a short research proposal of 2–3 pages on one of the advertised topics, and the usual certificates, including the transcript of records in English. Online application form: <https://wkf.ms/3YQbhq9>

Application Deadline: **15 February 2025**.

The final candidates will be invited for an online interview with Prof. Dr. Thomas Hamacher and his team. The Selection Commission of the TUM SEED Center will make the final decision in line with DAAD criteria.

If you have any questions regarding the announcement of the two doctoral scholarships, feel free to contact **Mr. Prashant Pant** (Email: prashant.pant@tum.de).

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