

UNITED REPUBLIC OF TANZANIA

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

UNIVERSITY OF DAR ES SALAAM
OFFICE OF THE DEPUTY VICE CHANCELLOR
(ACADEMIC)



UDSM-Sida IGRID Project

CALL FOR APPLICATIONS FOR PhD SPONSORSHIP FOR COMPUTER AND IT SYSTEMS ENGINEERING

Project Outline

The overall objective of this Sida iGRID sub-programme (Phase II) titled iGRID is intended to develop human technical and scientific capacity to facilitate implementation of automation of monitoring, evaluation, analysis, control and management of electrical power system (smart grid) in order to improve delivery efficiency and to optimize operational costs in the electrical power system in Tanzania. iGRID phase II theme is Smart Grid Capacity Development for Enhancing Electrical Power Network Management in Tanzania. The iGRID research training sub-programme is meant to make a difference in the manner that research students are being trained in Tanzanian institutions to generate a new breed that focuses on societal needs, relevance and in providing innovative solutions that invoke critical thinking by a triangulation of training, research and innovation emphasis in Smart grid realization (i.e. making electrical power network smart and intelligent using ICT). It is a multidisciplinary programme including addressing security issues, communication, IoT applications, monitoring and instrumentation, data and big data processing, interfaces (like machine-to-machine interfaces) and control of the grid and its facilities.

ELIGIBILITY

- The applicants must have either received admission and qualify for admission into PhD in Computer and IT Systems Engineering.
- The scholarships are intended for qualified Tanzanian citizens.
- Applicants must have demonstrated commitment and capability to do research during MSc studies considering completion time for such studies.
- Applicants must provide assurance that their employers shall allow them to attend the training on a fulltime basis.
- Female researchers are especially encouraged to apply.
- Applicants must be willing and capable to work in groups while addressing own research challenge.

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RESEARCH FOCUS FOR RESEARCH PART OF STUDIES

The research works shall be in the different aspects of Smart grid. Each student shall choose academic area of interest and potential in field of smart grid. The students shall work in groups to address a specific problem/challenge with each student working in a specific sub-theme to jointly address the challenge.

SPONSORSHIP DURATION

The duration for sponsorship will be for four (4) years, starting 2024/25 academic year.

SCHOLARSHIP BENEFITS

It is a full package sponsorship covering:

- (a) UDSM approved rates in tuition fees, books and stationeries, monthly stipend and research/fieldwork fund. Terms and conditions are as per University of Dar es Salaam Postgraduate Regulations and Requirements (2013). Further details, please visit:
<http://www.postgraduate.udsm.ac.tz/index.php/regulations.html>
- (b) Support to present papers in peer reviewed international conferences.

APPLICATION PACKAGE

All applicants must include in their application:

- An up-to-date Curriculum Vitae.
- Academic credentials (copy of certificate and transcript) for Bachelor and Master Degrees as applicable.
- High school (A level) certificates (showing scores).
- A brief research abstract of three to four pages in any of the areas in smart grid.
- Commitment letter to complete study in the prescribed period.
- Commitment from employer to release you for studies.
- Letters of recommendations from two referees including phone numbers and e-mail addresses.
- Copy of admission letter or proof of application for the programme.

SUBMISSION

Submit soft copies in PDF to: kwame.ibwe@gmail.com, the Principal Investigator of the project.

DEADLINES

Applications must be received by 27th December 2024. Late applications will not be considered.

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UDSM-Sida iGRID Project CALL FOR APPLICATIONS FOR POSTDOC SPONSORSHIP FOR COMPUTER AND IT SYSTEMS ENGINEERING

Project Outline

The overall objective of Sida iGRID sub-programme (Phase II) is intended to develop human technical and scientific capacity to facilitate implementation of automation of monitoring, evaluation, analysis, control and management of electrical power system. iGRID phase II theme is Smart Grid Capacity Development for Enhancing Electrical Power Network Management in Tanzania. The purpose being to improve delivery efficiency and to optimize operational costs in the electrical power system in Tanzania. In the iGRID sub-programme research is focused on addressing societal needs and provide innovative solutions that invokes critical thinking using Smart grid technologies (i.e. making electrical power network smart and intelligent using ICT).

ELIGIBILITY

- Must be a PhD degree holder preferably in electrical, electronic or computer engineering from a recognized institution;
- Not more than four years since PhD graduation;
- Must have demonstrated drive to publish and do research in smart grid discipline;
- Has shown and demonstrated willingness to supervise, manage, and oversee research activities of research students;
- Readiness to learn and acquire new skills;
- Has strong knowledge, capacity and experience in smart grid related areas;
- Is willing and can demonstrate ability to engage in research activities in the smart grid discipline and publish in reputable journal; and
- Willing to learn and explore new knowledge areas in the smart grid discipline.

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RESEARCH FOCUS FOR RESEARCH PART OF STUDIES

The research works shall be in the different aspects of Smart grid. Each Postdoc shall choose academic area of interest and potential in the field of Smart grid. The Postdoc shall encourage and guide a student(s) to work with him or her in that area.

SPONSORSHIP DURATION

The duration for sponsorship will be for ONE year, starting January 2025.

RESEARCH FELLOWSHIP BENEFITS

It is a full package sponsorship covering:

- (a) Monthly stipend at a rate to be communicated to successful applicant.
- (b) Field work for data collection and analysis where applicable.
- (c) Support to present papers in peer reviewed international conferences.
- (d) Support for two months study visit to KTH.

APPLICATION PACKAGE

All applicants must include in their application:

- An up-to-date detailed Curriculum Vitae.
- An application letter for the position.
- Commitment to undertake activities in the iGRID project activities including mentoring and guiding PhD students
- List of their recent publications in reputable journals and conferences;
- Statement to justify qualification for the position;
- Academic certificates and transcripts for MSc and PhD;
- Abstract of three to four pages of research proposal in Smart grid discipline

SUBMISSION

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DEADLINE

Applications must be received by 27th December 2024. Any application received later than this date will not be processed.