

Training in Power Engineering | Energy Engineering | Microgrid | Smartgrid



Organizer: ACEESD and University of Rwanda

The African Center of Excellence in Energy for Sustainable Development (ACE-ESD) is one of 24 Eastern and Southern Africa Higher Education Centers of Excellence in the World Bank's ACE II Project. The main objective of ACEESD is to create a world-class energy center that will be a regional hub for research and training of African engineers, policy makers and energy utility managers (in micro-grid energy systems using renewable energy sources and interstate energy trading, management and policy); contribute to rural development through technology transfer; and nurture and promote entrepreneurship development in the energy sector towards sustainable development.

TRAINING PROGRAMME OUTLINE

ACE-ESD is organizing a 5 days of training in “Power Engineering | Microgrid | Smartgrid by focusing on the following topics: **small wind turbines (off-grid system), high voltage direct current technology (HVDC), wind power plant with DFIG, hydropower with pumping and classical power generation, power transmission and protection technology ,industrial photovoltaic system, Microgrid power system with synchronization, Smartgrid SCADA monitoring and remote control, smart grid distribution and double bus bars FRT (fault ride through, dynamic grid fault simulation).**” The trainer will use smartgrid laboratory of the ACEESD to carry out different experiments and

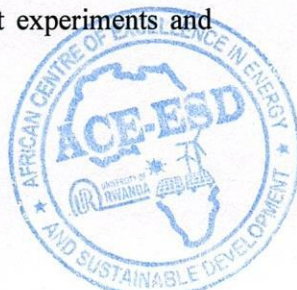
teaching theory, which are frequently used in microgrids and smartgrids experiments.

The training targets experts in Public, Private, Academic institutions and researchers who wish to understand deeply on how to design, operate, validate and implementation of microgrid and smartgrid system.

TRAINING OUTCOMES

The ACEESD will give certificates to the participants after attending this course.

The delegates will have a full understanding of the range of renewable energy resources available, be able to assess control strategies of microgrid composed by different controllers such droop control and its importance in future and be able to use different software package such as SCADA



Viewer, SCADA Designer and Programmable Logic Controller (PLCs).

DELEGATE PROFILE

The female and male are very encouraged to apply but female from regional (outside Rwanda) has **many chance to be selected.**

The candidate should have a background in the following fields: *Electrical power engineering/electrical engineering, Renewable energy ,Control engineering, Computer engineering and electrical, Energy engineering ,Engineering disciplines* and any other candidate with a basic degree and working in relevant application areas such as hydropower, electrical technology, economic dispatch, rural electrification and research and development can apply.

COSTS

The ACEESD will provide *daily lunch, tea break, supper and accommodation for Regional applicants and provides only lunch for National.*

In additional to the applicants from regional the ACEESD will pay transport from up & down (**Bus only and MUST bring their bus TICKETS**).

APPLICATION PROCEDURE

Those who are interested in the Training should apply through this link (<http://aceesd.ur.ac.rw/?q=short-course-application>). Please include a short motivation statement and a CV. We will notify the selected participants before the beginning of the training.

Key Dates for this Training

1. Opening of online application process: 21st August/2019
2. Closing of online application process: 30th September / 2019
3. Selection and Notification: 6th October / 2019
4. Registration period: Upon arrival

For any additional information, clarifications or inquiry, please do not hesitate to contact:

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Thank you for choosing the ACEESD University of Rwanda



ACEESD Center director

Prof Etienne Ntagwirumugara

For More Information please visit:

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