

February 10, 2014

MASTER'S SCHOLARSHIP UNDER RELOAD (REDUCTION OF POST-HARVEST & VALUE ADDITION) PROJECT

Brief description:

CAES is working with the Germany Government to support a RELOAD (Reduction of Post-harvest and Value Addition) project for the purpose of establishing a development oriented inter and multidisciplinary African-German research network in Kenya Uganda and Ethiopia to address reduction of Post Harvest Losses (PHL) and enhancing value addition. Germany Government will provide support and fund graduate study programs leading to the award of Masters Degree at Makerere university and Mbarara University of Science and Technology.

Applications are therefore invited from qualified individuals for the award of Masters Scholarship in the following areas of study:

	TOPIC
MSc	Storability, shelf life, new dairy products for different market segments
MSc	Renewable Energy in Food Processing
MSc	Optimized processing-Enset

MSC: Research Topic1: Storability, shelf life, new dairy products for different market segments

Objectives

- Determine shelf life of milk and dairy products under different production strategies (intensive vs. extensive, organic vs. conventional, regional and breed specific approaches).
- Determine desired milk quality standards and provide mechanisms to maintain desired quality by handlers, processors and marketers.

Eligibility:

The master's scholarship is open to only candidates with a minimum qualification of an Upper Second BSc in the following disciplines; Food Science and Technology and any other related fields from a recognized institution.

MSC Research Topic 2: Renewable Energy in Food Processing

This candidate will investigate the following.

- Solar energy technology for low and medium temperature applications during food processing

- Biogas application for food processing
- IT simulation tool for energy supply concepts in food processing

Eligibility:

The master's scholarship program is open to Ugandan candidates with a minimum qualification of an Upper Second BSc in the following disciplines; Electro and Mechanical Engineering, Agricultural Engineering and any other related fields from a recognized institution.

MSC Research Topic 3: Optimized processing-Enset

Objectives

- Determine quality and quantity losses in the existing value chain of enset and identify hot spots by site visits and survey
- Identify and document existing traditional and improved enset processing devices, determine ergonomic aspects of traditional methods, develop advanced techniques and procedures by prototyping and field trials
- Investigate the major microorganisms involved in the fermentation during enset processing and determine their influence on the volatile components to reduce the repugnant smell
- Improve packaging, handling and storage technology to increase shelf life of enset Products and upgrade food value of enset products by supplements for value creation

Eligibility:

The master's scholarship is open to only candidates with a minimum qualification of an Upper Second BSc in the following disciplines; Food Science and Technology and any other related fields from a recognized institution.

Note: Masters students who have already enrolled but have no research funding are encouraged to apply.

Application instructions:

Applicants must submit an **Application Letter, Two Recommendation Letters**, and **Curriculum Vitae** to Dr. Susan Balaba Tumwebaze (tumwebaze@forest.mak.ac.ug) of School of Forestry, Environmental & Geographical Sciences, Room 201.

Deadline:

Application deadline for the scholarship for the master's programs is **21st February 2014**.