

# CURRICULUM VITAE

**ESTHER MBEYU MWANJE**

**LABORATORY TECHNICIAN**

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## PROFESSIONAL PROFILE

A dedicated Laboratory Technician with over 10 years work experience. Expert at qualitative and quantitative analysis. Competency with basic equipments like AAS, UV-VIS, Rotervap, Melting point apparatus and Polarimeter.

## WORKING HISTORY

PWANI UNIVERSITY, KILIFI MAIN CUMPUS

CHEMISTRY DEPARTMENT

**LABORATORY TECHNICIAN-GRADE B**

Employment date: 1st Mar.2014 to date

### Responsibilities

- In charge of the chemistry laboratory section.
- Issuing of laboratory manuals to students.
- Conducting Practical sessions for undergraduate and postgraduate students.
- Maintaining an updated inventory of consumables and non-consumables.
- Supporting departmental innovations, research and income generating activities such as the paint and detergent project, headed by the DVC-Research and Extension.
- Ensuring that the laboratory is opened/locked in time.
- Ensuring that the laboratory environment is safe.
- Preparation of annual budget for teaching materials.
- Assisting in maintaining and undertaking minor repairs of equipments.
- Any other duty assigned by the immediate supervisor.

## LABORATORY TECHNICIAN-GRADE A/B

Employment date: 16th Aug.2010 to 31<sup>st</sup> Mar.2014

### Responsibilities

- In charge of the chemistry laboratory section.
- Issuing of laboratory manuals to students.
- Conducting Practical sessions for undergraduate students.
- Maintaining an updated inventory of consumables and non-consumables.
- Supporting departmental innovations, research and income generating activities such as the paint and detergent project headed by the DVC-Research and Extension.
- Ensuring that the laboratory is opened/locked in time.
- Ensuring that the laboratory environment is safe.
- Assisting in preparation of annual budget for teaching materials.
- Any other duty assigned by the immediate supervisor.

### Achievements

My work experience and exposure to modern technology at Pwani University have made me;

1. Gain high levels of competency and efficiency and in turn equipping students with excellent skills and knowledge relevant in industry and research.
2. Acquire skills like formulation technology and as a result I was able to formulate over 5,000L of emulsion anti-fungal paints and over 500L of multipurpose liquid detergent used within the University. These two products are a benefit to the Institution in terms of cost cutting and quality.

YEAR	PRODUCTS,LITRES			
	BRILLIANT WHITE	SOFT WHITE	UNDERCOAT	DETERGENT
2011	680	260	-	-
2012	-	480	-	-
2013	400	400	-	-
2014	-	-	-	-
2015	1,700	1,180	260	600
<b>TOTAL</b>	<b>2,780</b>	<b>2,380</b>	<b>260</b>	<b>600</b>

The production is expected to go up this year.

KENYA NUT CO.LTD, THIKA

RESEARCH LABORATORY, FARMS DEPARTMENT

### **LABORATORY TECHNICIAN**

Employment date: 2<sup>nd</sup> Feb. 2005 to 31<sup>st</sup> May 2010

#### **Responsibilities**

**Entomology Laboratory:** 1st Jan. 2009 to 31<sup>st</sup> May 2010.

- In charge of all laboratory and screen house activities involving rearing of pest species and their parasitoids for control of Macadamia stinkbug.
- Production of daily, weekly and monthly insect production reports.
- Laboratory store management.
- Preparation and implementation of annual laboratory budget.

#### **Achievements**

Biological pest control proved to be effective, cheap and eco-friendly method because in six months time the population of stinkbugs had reduced to a great extent. We managed to produce many parasitoids in a short period and released them to the farms, in this case the parasitoids destroyed the stinkbug eggs hence reducing their population.

**Biological laboratory:** 1st Jan. to 31<sup>st</sup> Dec 2008

- Assisted the senior plant pathologist in research work.
- Involved in fungi isolation which include sterilization of equipments, preparation of culture media and reagents used in isolation and microscope identification.
- Laboratory store management.
- Preparation and implementation of annual laboratory budget.

#### **Achievements**

We managed to identify the major disease causal microbes for Macadamia plant in all company's farms which include pestalotia spp, colletotrichum spp, Botrytis spp and Botryosphaeria spp. We were also able to classify these microbes according to their area of attack that is foliar, stem and roots and finally their specific chemical control.

**Chemistry laboratory:** 2<sup>nd</sup> Feb. 2005 to Dec 31<sup>st</sup> 2007

- In charge of the Chemistry laboratory section.
- Analysis of soil leaves and compost samples to determine required composition.
- Keeping stock and inventory records of various laboratory reagents and equipments.

- Maintenance of high standards of hygiene in and around the laboratory.
- Preparation and implantation of annual laboratory budget.
- Implantation and maintenance of general laboratory rules and regulations.
- Making and forwarding laboratory analysis and finding reports.

### **Achievements**

Soil analysis enabled us evaluate the soil fertility status of the company's farms and as a result we managed to improve and maintain the required nutrient balance for macadamia and coffee production .For example we were able to adjust the soil PH to the ideal levels for macadamia that is from PH 7 to PH 5.5 ideal for macadamia production.

## **EDUCATION AND TRAINING**

MOMBASA TECHNICAL TRAINING INSTITUTE

YEAR 2000 to 2002

DIPOLMA IN ANALYTICAL CHEMISTRY

### **Subjects done**

- Physical chemistry
- Inorganic chemistry
- Organic chemistry
- Chemical analytical methods/Biochemistry
- Instrumental methods of analysis
- Laboratory practice and management
- Course and entrepreneurship projects

### **Course project done**

Determination of macro-nutrients content and their effect on soil fertility in Kido's Farm.

### **Industrial attachment**

- Government chemists department, Mombasa.
- Coastal Bottlers Ltd, Mombasa.
- Kenya marine and fisheries research institute, Mombasa.

ST. JOHNS GIRLS SEC. SCHOOL

YEAR 1995 to 1998

GRADE ATTAINED-C PLAIN

MATSANGONI PRIMARY SCHOOL

YEAR 1986-1994

K.C.P.E CERTIFICATE

## TRAINING

- Basic GCLP-KEMRI, Kilifi
- Basic fire awareness and fire fighting-Jolemac fire protection Ltd
- Accelerating HIV infection to zero-Pwani University
- HIV/AIDS, alcohol and drug abuse sensitization-Pwani University

## SKILLS

- Computer literacy
- Technical ability in chemistry field
- Strong supervisory and managerial skills
- Data and procedure analysis
- Teamwork
- Multitasking
- Expert in making emulsion paints and multipurpose liquid detergent

## REFEREES

Dr. S.Shikuku,  
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