

# **NIGERIAN INSTITUTE OF** SCIENCE LABORATORY TECHNOLOGY

## IN COLLABORATION WITH





#### ARTIFICIAL INTELLIGENCE (AI) APPLICATION IN LABORATORY 8. ADMINISTRATION AND MANAGEMENT

FOR: Laboratory personnel (Scientists, Technologists, Technicians), Laboratory Managers, Researchers, personnel working in both public and private laboratories.

**OBJECTIVES:** The objective of the workshop is to expose Laboratory personnel to approach of Equipment Ordering, installation, Commission and Management.

### **COURSE CONTENT**

- The Role of NISLT in Laboratory Automation and application of Artificial Intelligence.
- Implementing AI in LIMS for improved data organization, tracking, and reporting
- Using AI for inventory control, including real-time tracking of reagents, supplies, and equipment.
- Employing AI to enhance quality control processes by identifying anomalies and deviations in real-time.
- Utilizing AI to predict equipment failures and schedule preventive maintenance, reducing downtime.
- Optimizing resource allocation through AI algorithms, including personnel and equipment scheduling.
- Implementing AI to streamline sample tracking and automate repetitive laboratory workflows.
- Using AI for data analysis and interpretation, including pattern recognition and anomaly detection.
- Ensuring compliance with regulatory requirements by using AI to track and maintain records.
- Leveraging AI to analyze costs and identify areas for cost reduction and efficiency improvements.
- Enhancing security through AI-based access control systems and surveillance.
- Developing AI-driven tools for generating reports and providing decision support for laboratory managers and administrators

**DURATION:** 7 days

18th - 22nd November 2024 Date: Arrival: 17th – 23rd November 2024

**Departure:** 23rd November 2024

₩80,000.00 FEE:

(United Bank for Africa (UBA) ASLTON NISLT BRANCH 1020755954)

**VENUE:** Ibadan Office, Nigerian Institute of Science Laboratory

Technology, Educational Zone, Samonda, Ibadan, Oyo State.

Tel: 07087978055, 09122043624, 08062117814, 08030787747, 0806 832 3400, 07066289848

e-mail: inform@nislt.gov.ng, enquiry@nislt.gov.ng



### NIGERIAN INSTITUTE OF SCIENCE LABORATORY TECHNOLOGY IN COLLABORATION WITH





2024 NISLT SHORT TERM TRAINING WORKSHOP PROGRAMMES

