



NIGERIAN INSTITUTE OF SCIENCE LABORATORY TECHNOLOGY (NISLT)

(FEDERAL MINISTRY OF INNOVATION, SCIENCE AND TECHNOLOGY)

(A statutory Professional Body Chartered by Act No. 12 of 2003 of the National Assembly)



2026 SHORT TERM TRAINING WORKSHOP PROGRAMMES

Ibadan Office:
Educational Zone,
Samonda-Sango/U.I.
Road, P. O. Box 9764,
U. I. Post Office
Ibadan, Oyo State,
Nigeria Abuja Office:
Jabi Airport Road,
beside NOUN,
opposite EFCC,
adjacent Federal
Medical Centre, Abuja
Nigeria.

South South: Edo
State Ministry of
Science and
Technology
Secretariat Benin City
South East: Room 34-
37 Ministry of
Environment State
Secretariat, Abakaliki,
Ebonyi State
North East: Modibbo
Adama University
Yola Adamawa
Statewebsite:
www.nislt.gov.ng

BRIEF ON THE INSTITUTE

The Nigerian Institute of Science Laboratory Technology (NISLT) was established by Act 12 of 2003 of the National Assembly and made a parastatal of the Federal Ministry of Innovation, Science and Technology. The Institute was hitherto known as the Nigerian Institute of Science Technology (NIST) founded in 1971 saddled with responsibility of “advancing science laboratory technology profession, ensure through its registered members effective and efficient management and administration of science laboratories in Nigeria and arranging appropriate on-the-job training for members of the profession”.

Over the years, the Institute has developed its human resources and infrastructure to fulfil its mandate. This includes establishing and Re-equipping a state-of-the-art Multipurpose Science Laboratory at its national secretariat in Ibadan, Oyo State with level II bio containments’. It may interest you to note that the laboratory is equipped with modern, computerized tools designed for training, routine laboratory services, and research utilizing advanced technologies. Participants in the training workshops will have the opportunity to engage with these cutting-edge facilities, gaining practical knowledge and skills to improve their workplace performance.

Resource persons for the workshops are experienced Lecturers and Scientists drawn from Tertiary Institutions, Industries, Research Institutes and the Private Sector.

TRAINING METHODOLOGY

The workshops will adopt a blended learning approach comprising expert-led lectures, interactive discussions, real-life case studies, simulation exercises, multimedia presentations, and hands-on practical sessions.

In this regard, we are pleased to announce the lineup of workshops and training programmes scheduled for the year **2026**.



NIGERIAN INSTITUTE OF SCIENCE LABORATORY TECHNOLOGY

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1. ETHICAL STANDARDS, COMPLIANCE AND GOOD LABORATORY PRACTICE (GLP) IN THE DIGITAL AGE

Target Audience:

Laboratory scientists and technologists, laboratory managers, quality assurance officers, research and academic/laboratory staff, regulatory and inspection officers, data/LIMS administrators, and NISLT-registered professionals involved in laboratory operations and compliance.

OBJECTIVE: To equip laboratory professionals with the knowledge and skills to uphold ethical standards, ensure regulatory compliance, and implement Good Laboratory Practice (GLP) effectively in both traditional and digital laboratory environments.

COURSE CONTENT:

- Role of NISLT in Laboratory Standardization and Professional Regulation
- Foundations of Ethics in Laboratory Science
- National and International Ethical Frameworks for Laboratories
- Professional Conduct and Code of Ethics for Laboratory Personnel
- Good Laboratory Practice (GLP): Structure and Core Requirements
- Documentation, Data Integrity, and Record Management
- Digital Transformation and GLP Compliance
- Ethical Use of Digital Tools, AI, and Automation in Laboratories
- Compliance Management and Regulatory Inspections
- Research Ethics, Intellectual Property, and Publication Integrity
- Whistleblowing, Incident Reporting, and Ethical Risk Management
- Building an Ethical Laboratory Culture and Continuous Improvement

DURATION: 6 days

- **Date:** 27th – 30th April 2026
- **Arrival:** 26th April 2026
- **Departure:** 1st May 2026
- **FEE:** ₦70,000.00
- **VENUE:** Nigerian Institute of Science Laboratory Technology, Educational Zone, Samonda, Ibadan, Oyo State.



2. SCIENCE LABORATORY TECHNOLOGY ACCREDITATION AND ASSESSMENT: REGISTRATION PROCESSES, COMPLIANCE REQUIREMENTS, AND REGULATORY COLLABORATION

Target Audience:

Senior academics and lecturers, Laboratory managers and heads of departments, Quality assurance and laboratory compliance officers, Regulatory and inspection officers, NISLT, NUC, and NBTE-affiliated professionals, Research coordinators and laboratory administrators

OBJECTIVE:

To equip participants with the knowledge and practical skills to navigate SLT accreditation processes, understand the collaborative roles of NISLT, NUC, and NBTE, complete laboratory registration and documentation, conduct professional assessments and resource verification, and implement quality management systems for regulatory compliance and continuous improvement.

COURSE CONTENT:

- Overview of SLT Accreditation and NISLT Mandate
- NUC and NBTE Collaboration in SLT Accreditation
- Accreditation Framework and Compliance Requirements
- Professional Assessment of SLT Programs
- Laboratory Registration Procedures
- Resource Verification and Laboratory Infrastructure Assessment
- Laboratory Equipment Inventory, Maintenance, and Functional Assessment
- Preparation and Submission of Self-Study Forms
- Quality Management System (QMS) Implementation
- Documentation, Data Integrity, and Compliance Verification
- On-Site Assessment Procedures and Laboratory Inspections
- Addressing Non-Conformities and Maintaining Accreditation Status

DURATION: 7 days

- **Date:** 11th – 15th May 2026
- **Arrival:** 10th May 2026
- **Departure:** 16th May 2026
- **FEE:** ₦80,000.00

VENUE: Nigerian Institute of Science Laboratory Technology,
Educational Zone, Samonda, Ibadan, Oyo State.



3. MODERN LABORATORY SAFETY, HAZARD IDENTIFICATION AND RISK-BASED MANAGEMENT

Target Audience:

Laboratory scientists and technologists, laboratory managers and supervisors, safety and quality assurance officers, regulatory and inspection personnel, research staff, and NISLT-registered professionals involved in laboratory operations.

Objective:

To equip participants with the knowledge and practical skills to identify laboratory hazards, assess and manage risks using a risk-based approach, and implement effective safety practices in line with modern standards and NISLT requirements.

COURSE CONTENT:

- The role of NISLT in Laboratory Safety and Risk Management System
- Contemporary Laboratory Safety Culture and Leadership
- Regulatory Frameworks and Safety Standards in Laboratory Practice
- Hazard Identification in Modern Laboratories
- Risk Assessment Methodologies and Tools
- Risk-Based Safety Management and Control Measures
- Chemical Safety and Safe Handling of Hazardous Substances
- Biological Safety and Infection Prevention Practices
- Laboratory Waste Management and Environmental Protection
- Equipment Safety, Preventive Maintenance, and Calibration
- Emergency Preparedness, Incident Response, and First Aid
- Safety Documentation, Reporting, and Audit Readiness
- Digital Tools and Data-Driven Safety Management

DURATION: 7 days

- **Date:** 22nd – 26th June 2026
- **Arrival:** 21st June 2026
- **Departure:** 27th June 2026
- **FEE:** ₦80,000.00

VENUE: Nigerian Institute of Science Laboratory Technology,
Educational Zone, Samonda, Ibadan, Oyo State.



4. ADVANCED LABORATORY WASTE MANAGEMENT, BIOSAFETY, AND ENVIRONMENTAL RISK MITIGATION

Target Audience:

Laboratory scientists and technologists, biosafety and waste management officers, laboratory managers, quality assurance personnel, environmental health and safety officers, regulatory and inspection staff, and NISLT-registered professionals.

Objective:

To strengthen participants' capacity to implement effective laboratory waste management systems, apply biosafety principles, and mitigate environmental and public health risks in compliance with modern standards and NISLT regulations.

COURSE CONTENT:

- The Role of NISLT in Laboratory Waste Management and Biosafety Standardization
- Principles of Laboratory Biosafety and Environmental Protection
- Classification of Laboratory Waste and Environmental Hazards
- Biosafety Levels (BSL) and Risk-Based Containment Strategies
- Hazard Identification and Risk Assessment for Laboratory Waste
- Safe Segregation, Packaging, and Labeling of Laboratory Waste
- Waste Treatment, Decontamination, and Disposal Technologies
- Environmental Risk Mitigation and Pollution Control Measures
- Sustainable and Green Laboratory Practices
- Emergency Response and Incident Management
- Documentation, Monitoring, and Compliance Reporting
- Building an Integrated Biosafety and Environmental Risk Management System

DURATION: 7 days

- **Date:** 20th – 24th July 2026
- **Arrival:** 19th July 2026
- **Departure:** 25th July 2026
- **FEE:** ₦80,000.00

VENUE: Nigerian Institute of Science Laboratory Technology,
Educational Zone, Samonda, Ibadan, Oyo State.



5. EMERGING ANALYTICAL TECHNIQUES IN FOOD SAFETY: MYCOTOXIN DETECTION AND NUTRITIONAL PROFILING

Target Audience:

Laboratory scientists and technologists, laboratory managers and supervisors, safety and quality assurance officers, regulatory and inspection personnel, research staff, and NISLT-registered professionals involved in laboratory operations.

Objective:

To equip participants with the knowledge and practical skills to identify laboratory hazards, assess and manage risks using a risk-based approach, and implement effective safety practices in line with modern standards and NISLT requirements.

COURSE CONTENT:

- Role of NISLT in Standardization and Regulation of Food Testing Laboratories
- Overview of Food Safety, Public Health, and Emerging Analytical Trends
- Mycotoxins: Sources, Health Implications, and Regulatory Limits
- Sampling Strategies and Sample Preparation for Mycotoxin Analysis
- Conventional Mycotoxin Detection Techniques
- Immuno-Based Mycotoxin Detection Methods
- Advanced Instrumental Techniques for Mycotoxin Analysis
- Quality Assurance and Quality Control in Mycotoxin Testing
- Nutritional Profiling and Proximate Analysis
- Emerging Rapid Techniques in Nutritional Analysis
- Data Analysis, Interpretation, and Reporting of Food Safety Results
- Risk Communication, Food Safety Management Systems, and Future Trends

DURATION: 7 days

- **Date:** 3rd – 7th Aug 2026
- **Arrival:** 6th Aug 2026
- **Departure:** 8th Aug 2026
- **FEE:** ₦80,000.00

VENUE: Nigerian Institute of Science Laboratory Technology,
Educational Zone, Samonda, Ibadan, Oyo State.



6. PREVENTIVE EQUIPMENT MAINTENANCE, CALIBRATION, AND QUALITY ASSURANCE IN MODERN LABORATORIES

Target Audience:

Laboratory scientists and technologists, laboratory managers and supervisors, quality assurance/quality control officers, equipment and maintenance officers, regulatory and inspection personnel, and NISLT-registered professionals.

Objective:

To equip participants with the knowledge and practical skills required to implement preventive maintenance and calibration programmes, ensure equipment reliability, and maintain quality assurance systems in line with modern laboratory standards and NISLT requirements.

COURSE CONTENT:

- The role of Equipment Management in Laboratory Quality Systems and the NISLT Mandate
- Regulatory and Quality Standards for Equipment Control
- Equipment Selection, Installation, and Qualification
- Preventive Maintenance Planning and Scheduling
- Equipment Calibration Principles and Measurement Traceability
- Use of Calibration Certificates and Performance Verification
- Equipment Performance Monitoring and Control Charts
- Safe Operation and User Competency for Laboratory Equipment
- Documentation and Record-Keeping for Equipment Quality Assurance
- Troubleshooting, Root Cause Analysis, and Corrective Actions
- Digital Tools and Automation in Equipment Management
- Equipment Audits, Risk Management, and Continuous Improvement

DURATION: 7 days

- **Date:** 31st Aug – 4th Sept 2026
- **Arrival:** 30th Aug 2026
- **Departure:** 5th Sept 2026
- **FEE:** ₦80,000.00

VENUE: Nigerian Institute of Science Laboratory Technology,
Educational Zone, Samonda, Ibadan, Oyo State.



7. INTRODUCTORY MOLECULAR BIOLOGY AND BIOTECHNOLOGY TECHNIQUES FOR APPLIED LABORATORIES

Target Audience:

Laboratory scientists and technologists in health, agricultural, environmental, forensic, and research laboratories; laboratory managers; quality assurance officers; academic and research staff; and NISLT-registered professionals.

Objective:

To equip participants with foundational knowledge and practical skills in molecular biology and biotechnology techniques for applied laboratory use, while ensuring quality, biosafety, and compliance with NISLT professional standards.

COURSE CONTENT:

- The Role of NISLT in Molecular Laboratory Standardization and Regulation
- Fundamentals of Molecular Biology and Biotechnology
- Laboratory Setup, Biosafety, and Good Molecular Laboratory Practice
- Sample Collection, Handling, and Nucleic Acid Preservation
- DNA and RNA Extraction Techniques
- Polymerase Chain Reaction (PCR): Principles and Applications
- Gel Electrophoresis and Visualization Techniques
- Quality Assurance and Quality Control in Molecular Testing
- Basic Bioinformatics and Data Interpretation
- Biotechnology Applications in Health, Agriculture, and Environment
- Ethical, Legal, and Regulatory Considerations in Molecular Biotechnology
- Emerging Trends and Future Directions in Molecular and Biotechnological Laboratories

DURATION: 7 days

- **Date:** 14th – 18th Sept 2026
- **Arrival:** 13th Sept 2026
- **Departure:** 19th Sept 2026
- **FEE:** ₦90,000.00

VENUE: Nigerian Institute of Science Laboratory Technology,
Educational Zone, Samonda, Ibadan, Oyo State.



8. DATA-DRIVEN LABORATORIES: EXPERIMENTAL DESIGN, STATISTICAL ANALYSIS AND AI-ASSISTED LABORATORY MANAGEMENT

Target Audience:

Laboratory scientists and technologists, research and academic staff, laboratory managers, quality assurance officers, data analysts, LIMS administrators, regulatory and inspection personnel, and NISLT-registered professionals.

Objective:

To equip participants with the knowledge and practical skills to design robust experiments, perform statistical analysis, interpret laboratory data, and utilize AI-assisted tools for effective laboratory management and decision-making in compliance with NISLT

COURSE CONTENT:

- Role of NISLT in Laboratory Data Quality and Standardization
- Introduction to Data-Driven Laboratory Science
- Fundamentals of Experimental Design in Laboratory Research
- Sampling Techniques and Data Collection Strategies
- Introduction to Statistical Concepts for Laboratory Scientists
- Statistical Analysis of Laboratory Data
- Interpretation, Visualization, and Reporting of Laboratory Data
- Data Integrity, Documentation, and Compliance Requirements
- Introduction to Artificial Intelligence and Machine Learning in Laboratories
- AI Applications in Laboratory Research, Operations and Management
- AI-Assisted Decision Support and Risk Management
- Ethical, Regulatory, and Future Considerations in AI-Driven Laboratories

DURATION: 7 days

- **Date:** 19th – 23rd Oct 2026
- **Arrival:** 18th Oct 2026
- **Departure:** 24th Oct 2026
- **FEE:** ₦90,000.00

VENUE: Nigerian Institute of Science Laboratory Technology,
Educational Zone, Samonda, Ibadan, Oyo State.



9. NANOTECHNOLOGY: PRINCIPLES, SAFETY, AND APPLICATIONS IN MODERN LABORATORY SCIENCE

Target Audience:

Laboratory scientists and technologists in health, environmental, food, agricultural, and industrial laboratories; laboratory managers; quality assurance officers; research and academic staff; and NISLT-registered professionals.

Objective:

To provide participants with foundational knowledge of nanotechnology principles, practical insights into its laboratory applications, and the skills to implement nanomaterial safety, risk management, and quality practices in compliance with NISLT standards.

COURSE CONTENT:

- Fundamentals of Nanotechnology and Nanoscale Science
- Classification and Types of Nanomaterials
- Nanomaterial Synthesis Approaches
- Characterization Techniques for Nanomaterials
- Nanotechnology Applications in Modern Laboratories
- Laboratory Safety and Health Risks Associated with Nanomaterials
- Biosafety, Containment, and PPE for Nanotechnology Laboratories
- Nanotechnology Waste Management and Environmental Protection
- Quality Assurance and Good Laboratory Practice in Nanotechnology Research
- Ethical, Legal, and Societal Implications of Nanotechnology
- Role of NISLT in Nanotechnology Laboratory Standardization and Regulation
- Emerging Trends, Innovation, and Future Directions in Nanotechnology

DURATION: 7 days

- **Date:** 23rd – 27th Nov 2026
- **Arrival:** 22nd Nov 2026
- **Departure:** 28th Nov 2026
- **FEE:** ₦100,000.00

VENUE: Nigerian Institute of Science Laboratory Technology,
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GENERAL INFORMATION

1. ONLINE LECTURE:

Any participant that intends to attend online lectures for non-practical oriented workshop training should write personally to the institute email address (inform@nisl.gov.ng) or call 08088271378; 09166537559 at least one month before the date.

2. VENUE

Most of the lectures will be held at the NISLT Office, Samonda, Ibadan, except otherwise indicated specifically at NISLT office Jabi, Abuja. In-house training of staff can be arranged for Institutions/Organizations on request. Interested Institutions/Organizations should contact the Director-General/Registrar/CEO for further information.

3. ACCOMODATION

Participants will be responsible for their accommodation during the workshops. However, there are suitable hotels and guest houses with facilities which are affordable around the Institute. Arrangements for accommodation can be made on request to the Institute.

4. APPLICATIONS

Interested candidates, Institutions and Organizations should apply formally indicating their title(s) of interest to reach the Institute at least two weeks before the commencement date. Late applications or arrival for the respective workshops may not be entertained.

5. REQUIREMENTS

Since some of the training workshops involve laboratory sessions, participants are mandated to come with **LAPTOP where required, LABORATORY COATS, NOSE MASKS** in compliance with Laboratory Safety Regulations. ALL SAFTEY protocols will the observed.

FOR APPLICATIONS, COMPLETE THE ATTACHED FORM AND FORWARD IT

TO:

The Director-General/Registrar/CEO

NIGERIAN INSTITUTE OF SCIENCE LABORATORY TECHNOLOGY

P.O.BOX 9764, U. I. POST OFFICE

SAMONDA, IBADAN, OYO STATE

TEL: 08062117814, 08030787747



**NIGERIAN INSTITUTE OF
SCIENCE LABORATORY TECHNOLOGY**
2026 NISLT SHORT TERM TRAINING WORKSHOP PROGRAMMES



THE NIGERIAN INSTITUTE OF SCIENCE LABORATORY TECHNOLOGY (NISLT)

CORPORATE NOMINATION FORM FOR 2026 SHORT-TERM TRAINING PROGRAMME

Name of Organization:

Address

Email Address:

Telephone No.....

Course/Workshop applied for

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Names of Nominees	Position in Establishment
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

Amount Enclosed

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Name and Signature of Nominating Officer

.....

Phone Number /Email Address of Nominating Officer:

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**NIGERIAN INSTITUTE OF
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2026 NISLT SHORT TERM TRAINING WORKSHOP PROGRAMMES



NIGERIAN INSTITUTE OF SCIENCE LABORATORY TECHNOLOGY (NISLT)

INDIVIDUAL APPLICATION FORM FOR 2026 SHORT-TERM TRAINING PROGRAMME

I hereby apply to participate in the following course(s) of the Institute as advertised:

- (a) Date
- (b) Date
- (c) Date

PARTICULARS OF APPLICANT:

NAME:

SEX: MARITAL STATUS:

Email Address:

ADDRESS & TELEPHONE NUMBER

- (a) Residential: Tel:
- (b) Postal: Tel:
- (c) Office Tel:
- (d) Home Town: Tel:

ACADEMIC & PROFESSIONAL QUALIFICATIONS WITH DATES:

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Do you want the Institute to book accommodation for you?

If yes? Indicate below:

Ranges of hotel you want

The amount in bank draft that you are sending down as deposit

The course fees paid with receipt/bank teller: N.....

I hereby pledge to abide by all the rules and regulations governing the courses, which I have applied for.

Signature of Applicant



NIGERIAN INSTITUTE OF SCIENCE LABORATORY TECHNOLOGY

2026 NISLT SHORT TERM TRAINING WORKSHOP PROGRAMMES



SUMMARY OF THE 2026 SHORT TERM TRAINING

SN	Courses	Dates											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.	Ethical standards, compliance and good laboratory practice (GLP) in the digital age				27th – 30th April								
2.	Science laboratory technology accreditation and assessment: registration processes, compliance requirements, and regulatory collaboration					11th – 15th May							
3.	Modern laboratory safety, hazard identification and risk-based management						22nd – 26th June						
4.	Advanced laboratory waste management, biosafety, and environmental risk mitigation							20th – 24th July					
5.	Emerging analytical techniques in food safety: mycotoxin detection and nutritional profiling								3rd – 7th Aug				
6.	Preventive equipment maintenance, calibration, and quality assurance in modern laboratories								31 st Aug – 4th Sept				
7.	Introductory molecular biology and biotechnology techniques for applied laboratories									14th – 18th Sept			
8.	Data-driven laboratories: experimental design, statistical analysis and ai-assisted laboratory management										19th – 23rd Oct		
9.	Nanotechnology: principles, safety, and applications in modern laboratory science											23rd – 27th Nov	



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