



LABORATORY MANAGEMENT



science, technology
& innovation

Department:
Science, Technology and Innovation
REPUBLIC OF SOUTH AFRICA



CSIR
Touching lives through innovation

UWU **BIO**



SOUTHERN AFRICAN
BIOMANUFACTURING TRAINING HUB



Applications are open for the Laboratory Management course, a free skills development initiative from the CSIR-hosted Southern African Biomanufacturing Training Hub (SA-BTH), in partnership with UVU BIO, scheduled to commence on Monday, 18 January 2027. The course forms part of the Strengthening Biomanufacturing Capabilities in Southern Africa (BIOcapSA) programme, which is supported by KfW Development Bank.

The programme aims to support training and development in the biomanufacturing sector, focusing on developing a skilled and competent workforce in Africa.

LABORATORY MANAGEMENT (B-BTH03_UVU)

The Biomanufacturing Training Hub's goal in providing this course is to help grow and develop the biomanufacturing sector on the African continent through cutting-edge training in partnership with both local and international stakeholders.

The course is offered to unemployed and under-employed graduates, early career professionals and final-year students in the life sciences, physical sciences or engineering field who want to build a career in the vaccine and biomanufacturing sector. A key aspect of this programme is to provide industry-relevant theoretical training through interactive online learning and skills development that will enable local manufacturing of biologics, vaccines, recombinant proteins and therapeutics. This programme is aligned with a number of other initiatives that focus on establishing vibrant biomanufacturing industries on the African continent.

COURSE DESCRIPTION

The Laboratory Management course provides early-career scientists and technicians with the fundamentals of managing a laboratory in a regulated, quality-driven environment, from sample handling and equipment control to laboratory safety, biosafety and data integrity.

This course will be delivered through an online, facilitator-led model combining live virtual lectures, interactive workshops and practical case studies.

KEY AREAS OF DEVELOPMENT INCLUDE:

- Laboratory management fundamentals
 - The role of research, development, quality control and testing laboratories in biomanufacturing
 - Laboratory organisation, workflows and frameworks (GMP, GLP, ISO/IEC 17025 and ISO 15189)
- Laboratory operations, resources and performance
 - Planning, scheduling, workload and inventory control
 - Supplier coordination, cost management and laboratory performance indicators
- Equipment, facilities and method management
 - The equipment lifecycle – qualification, calibration, maintenance and retirement
 - Facility requirements and method validation and verification
- Sample, documentation and data management
 - The sample lifecycle and chain of custody
 - Standard Operating Procedures (SOPs), Laboratory Information Management System (LIMS), good documentation practice and Attributable, Legible, Contemporaneous, Original, and Accurate (ALCOA+) data integrity
- Laboratory safety, biosafety and risk management
 - Hazard identification, risk assessment and the hierarchy of controls
 - Biosafety levels, Personal Protective Equipment (PPE), waste management and emergency response
- People, quality culture and continuous improvement
 - Training, competency, supervision and laboratory ethics
 - Internal audits, root-cause analysis, Corrective and Preventive Action (CAPA) and audit readiness





COURSE DATES AND DURATION

DATES: 18 – 22 JANUARY 2027 (ONLINE)

DURATION: ONE WEEK (FIVE DAYS)

PLATFORM: MICROSOFT TEAMS

COURSE DELIVERY

The course is delivered using a fully online*, facilitator-led format, which includes:

- Live virtual lectures led by industry and subject-matter experts;
- Interactive workshops, case studies and practical exercises; and
- Guided self-study, supported by course notes and learning resources.

**Please note that a reliable internet connection is required to participate in the online sessions. It is recommended that a good download and upload speed be at least 5-10 Mbps.*

WHO SHOULD ATTEND?

Preference will be given to the following candidates:

- Unemployed and under-employed graduates holding a national diploma, BSc or BTech in the life sciences, physical sciences or engineering;
- Final-year tertiary education students completing a qualification in these fields; and
- New or early-career staff in the biomanufacturing, pharmaceutical or related sectors seeking to strengthen their foundational skills.



APPLICATIONS are open to South African citizens and foreign nationals holding a valid South African study permit may also apply. We particularly welcome applications from women and other candidates underrepresented in the biomanufacturing and life sciences sector. Participation will only be available to candidates holding a minimum NQF Level 6: a national diploma, BSc or BTech (NQF 6–7) in a life science, physical science or engineering field is preferred, and final-year students may apply (age 18–35).

For enquiries, please email
recruitment@uvubio.com

IMPORTANT DATES

- Deadline for submission of applications:
Sunday, 6 December 2026
- Selected candidates will be notified by
Friday, 11 December 2026

Applications should be submitted by completing the application form available [here](#).

