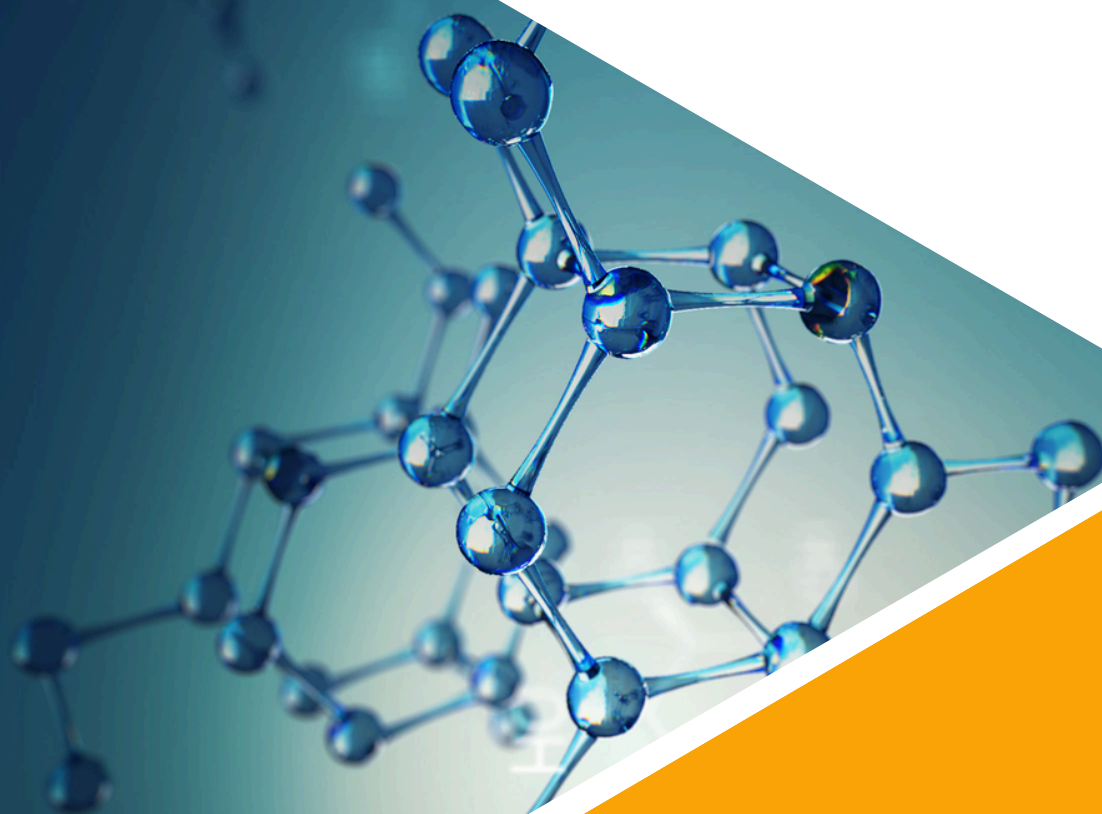


INDUSTRY READY TRAINING

2026



PREPARED BY
ALLELE TEAM



INDUSTRY READY TRAINING

The primary objective of the industrial training organized by allele lifesciences is to make you proficient in various latest and conventional technologies. These skills are essential for those looking to advance their careers in the biomedical and pharmaceutical fields.

Module I: Molecular Genetics & Advanced Diagnostics

Unit 1: Lab Safety, Chemical Preparation & Other Lab Procedures

Unit 2: Nucleic Acid Extraction (DNA & RNA) & Its Purity Analysis

Unit 3: RNA Extraction, cDNA Synthesis and Qualitative RT-PCR

Unit 4: Basics of Real Time PCR, Primer Design, Sample Run & Data Analysis

Unit 5: Basics of ELISA & Application, Analysis by ELISA and Data Analysis

Application:

Master the entire genomic workflow to advance your career in the food, healthcare, and life sciences industries. This session offers thorough, practical instruction in high-yield nucleic acid extraction, accurate fluorometric and spectrophotometric quantification, endpoint PCR amplification, and high-resolution Real-Time PCR (qPCR) data processing.

Module II: Cell Biology & Drug Discovery

Unit 1: In-vitro Cell Culture Lab Safety, Preparation and Sterilization of Culture Media

Unit 2: Sub-culturing, Cell Counting and Microscopic Observation by Inverted Microscopy

Unit 3: Cell Counting, Drug Cytotoxicity Analysis and Trypan Blue Exclusion Assay

Unit 4: Basics of Flow Cytometry in drug analysis, Propidium Iodide (PI) Cell Staining, Cell analysis by Flow Cytometer and Data Analysis

Unit 5: Cell Preparation, Drug Treatment and Staining for IFA, Fluorescence Microscopy and Data Analysis

Application:

Bridge the gap between cell biology and therapeutics by mastering the critical hands-on skills needed for cell-based drug screening, cell proliferation tracking by microscopy, and flow cytometry analysis.

Module III: Vaccine Research & Protein Biology

Unit 1: Bio-Process, Growth Curve & cell count, Production of biomass & measurement

Unit 2: Enzyme Activity Assay, Ammonium Precipitation and Partial Purification

Unit 3: SDS-PAGE and Basics of Protein Liquid Chromatography (FPLC)

Unit 4: Fast Protein Liquid Chromatography sample run and data analysis

Unit 5: Protein Derivatization & Preparation and Amino Acid Analysis by HPLC

Application:

Accelerate your career in biotherapeutics by mastering essential downstream processing techniques, including protein extraction, quantification, SDS-PAGE, western blot and low-pressure liquid chromatography (FPLC).

Module IV: Immunology & Immuno-techniques

Unit 1: In-vitro Cell Culture Lab Safety, Preparation and Sterilization of Culture Media

Unit 2: Primary Cell Isolation & counting and Microscopic Observation by Inverted Microscopy

Unit 3: Enzyme-Linked Immunosorbent Assay (ELISA): Direct/Indirect ELISA; signal amplification, standard curves, and troubleshooting

Unit 4: Non-specific binding blocking strategies, target selection and SDS-PAGE and Western Blot Analysis.

Unit 5: Cell Preparation, Drug Treatment and Staining for IFA, Fluorescence Microscopy and Data Analysis

Application:

Bridge theory and laboratory practice with immersive, hands-on training in immunology, chemiluminescence assay Learn antibody purification, ELISA, and advanced diagnostic immuno-techniques.

Module V: Industrial Chemistry & Pharmaceutical Quality Control Training

Unit 1: Assay of Active Ingredient, Confirm API identity, Preservative Content Determination

Unit 2: Microbial Limit Test (MLT), Antibiotic Assay (Microbiological Assay), Sterility Testing

Unit 3: Assay & Analysis of product, Analysis of Vitamin C, Estimation of Drug Content in Pharmaceuticals.

Unit 4: Principle of HPLC, Parts, Detectors and Application, Standard Preparation, sample run and data analysis.

Unit 5: Principle of Gas Chromatography, Parts, Detectors and Application, Standard Preparation, Sample run and data analysis.

Application:

Elevate your laboratory expertise: Gain intensive, hands-on experience in quantitative spectrophotometry, advanced HPLC, and gas chromatography (GC) techniques.

Information

Eligibility: Graduate/ Post Graduate / Research Scholar from life sciences or chemistry / Medical Professionals / Dentist / veterinarian etc.

Duration: 300 Hrs or Upto 90 Days

Service Charges: We charge non negotiable fee to cover the expenses of chemical and reagents that is **INR 50,000 /-** for (Indian Nationals) & **USD 1000 (Foreign Nationals)**

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