

BE THE EXPERT
FOR

**PHARMACEUTICALS, BIO-
PHARMA & AYURVEDA
INDUSTRY**



HANDS ON LEARNING

- ✓ In-vitro Research
- ✓ Flow Cytometry
- ✓ Immunoassay
- ✓ Biochemistry
- ✓ HPLC
- ✓ Gas Chromatography
- ✓ Various Microscopy
- ✓ Cancer Research
- ✓ Real Time PCR
- ✓ ELISA
- ✓ Immunofluorescence
- ✓ Fast Protein Chromatography
- ✓ Low Pressure Chromatography
- ✓ Microbiology

Send Your Resume

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Our Website

www.allelelifesciences.com

Contact Us

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Biotechnology / Bio-Pharmaceuticals Research

Module 1: In-vitro Cell Culture

Unit 1: Preparation and Sterilization of Culture Media

Unit2: Sub-culturing (Passaging) of Adherent / Suspension Cells

Unit3: Microscopic Observation of Cell Morphology & Cell Counting

Unit4: Trypsinization and cryo Preservation of cells

Module 2: Drug Screening Assays

Unit 1: Drug Cytotoxicity Analysis

Unit 2: Trypan Blue Exclusion Assay

Unit 3: LDH Release Assay

Unit 4: Catalase Assay in Cells

Module 3: Drug Analysis by Flow Cytometry

Unit 1: Basics of Flow Cytometry in drug analysis

Unit 2: Cell counting by Flow Cytometer

Unit 3: SYBR Green or Propidium Iodide (PI) Cell Staining

Unit 4: Data Analysis

Module 4: Immunofluorescence Assay For Drugs

Unit 1: Cell Preparation, Drug Treatment and Staining for IFA

Unit 2: Microscopy and Data Analysis

Unit 3: Comet Assay (Single Cell Gel Electrophoresis)

Unit 4: DNA FISH Assay

Module 5: Gene Expression by Real Time PCR

Unit 1: Total RNA Extraction & First Strand cDNA Synthesis

Unit 2: Basics of Real Time PCR, Primer Design and Software

Unit 3: Real Time PCR run for gene expression

Unit 4: Data Analysis

Module 6: Stem Cell Extraction & Pluripotency Assay

Unit 1: Isolation of Stem Cells

Unit2: Subculture of cells and maintenance

Unit3: DNA Extraction & Quality check

Unit4: Pluripotency marker analysis - Nanog gene

Training Fee - INR 20,000/-





Production of Bio-Pharmaceuticals

Module 1: Genetic Engineering Technique

Unit 1: PCR amplification of gene of interest

Unit2: Digestion of Plasmid with restriction enzymes used for GOI

Unit3: Ligation of Plasmid Vector and Digested PCR Product

Unit4: Transformation into Competent Cells

Module 2: Microbiology and Bio-Process

Unit 1: Isolation and Culturing of Microorganisms

Unit 2: Bacterial Growth Curve & cell count

Unit 3: Production of biomass & measurement

Unit 4: Cell Harvesting & Product Recovery

Module 3: Optimization & Partial Purification

Unit 1: Fed-Batch Fermentation Simulation

Unit 2: Enzyme Activity Assay

Unit 3: Determination of Specific Growth Rate (μ) and Yield Coefficient

Unit 4: Partial Purification

Module 4: Protein Liquid Chromatography (FPLC)

Unit 1: Basics of Protein Liquid Chromatography & Buffer Preparation

Unit 2: Fast Protein Liquid Chromatography - Affinity, Ion Exchange and Size Exclusion

Unit 3: Run of Protein Sample in Protein Chromatography System

Unit 4: Data Analysis & Software handling

Module 5: Protein Analysis

Unit 1: Protein Estimation Assay

Unit 2: Analysis of Protein by SDS-PAGE

Unit 3: Zymography

Unit 4: Protein / Enzyme Activity Assay

Module 6: Analysis of Amino Acids

Unit 1: Quantitative Estimation by Ninhydrin

Unit2: Amino Acid Separation by Ion-Exchange Chromatography

Unit3: Derivatization & Sample Preparation

Unit4: High-Performance Liquid Chromatography (HPLC) of Amino Acids

Module 7: ELISA & Western Blot

Unit 1: ELISA-based binding studies

Unit 2: SDS-PAGE Electrophoresis for Western Blot

Unit 3: Transfer on PVDF or Nitrocellulose Membrane

Unit 4: Blocking, Antibodies and Detection

Training Fee - INR 20,000/-





Quality Control of Pharma / Bio-Pharma Products

Module 1: Quality Analysis of Pharma Products by HPLC

Unit 1: Principle of HPLC, Parts, Detectors and Application

Unit 2: Sample and Standard Preparation of Pharma Product

Unit 3: Chromatographic Conditions and Sample run

Unit 4: Data Analysis & Reporting

Module 2: Analysis by Gas Chromatography

Unit 1: Principle of GC, Parts, Detectors and Application

Unit 2: Sample and Standard Preparation of Pharma Product

Unit 3: Chromatographic Conditions and Sample run

Unit 4: Data Analysis & Reporting

Module 3: Spectrophotometric Assays

Unit 1: Assay & Analysis of aspirin

Unit 2: To perform analysis of paracetamol

Unit 3: Analysis of Vitamin C

Unit 4: Estimation of Drug Content in Pharmaceutical Syrup

Module 4: Microbial Test for Pharma / Bio-pharma

Unit 1: Microbial Limit Test (MLT)

Unit 2: Antibiotic Assay (Microbiological Assay)

Unit 3: Sterility Testing of Pharma Product

Unit 4: Bacterial Endotoxin Test (BET) / LAL Test

Module 5: Analysis of Pharmaceuticals

Unit 1: Assay of Active Ingredient

Unit 2: Confirm API identity using TLC

Unit 3: pH & Viscosity

Unit 4: Preservative Content Determination

Module 6: Herbal Extraction & Analytical Procedures

Unit 1: Soxhlet Extraction, Drying the solvent by Vacuum Rotary Evaporator

Unit 2: Qualitative assay of Herbals - Assay

Unit 3: Quantitative assay

Unit 4: Size Exclusion Column Chromatography

Training Fee - INR 20,000/-





Important Information

TRAINING FEE (Pharma, Biopharma & Biotech Industry)

Bio-pharma Research - INR 20,000 /-

Bio-pharma Production - INR 20,000 /-

Pharma/Bio-pharma Testing- INR 20,000 /-

DURATION

30 to 45 Days or 100 Hrs For Each Training Program

EMPLOYMENT OPPURTUNITY IN PHARMA,BIO-PHARMA & BIOTECH SECTOR

Market Value (2024): ~\$220–250 billion globally

Expected CAGR: >12% annually (2024–2030)

Projected Value (2030): ~\$500–600 billion

OUR OBJECTIVES

Human Resource Generation refers to the systematic development of skilled professionals to meet the growing demands of the healthcare and diagnostics industry. With the rapid expansion of diagnostic technologies.


Hiring Sectors:

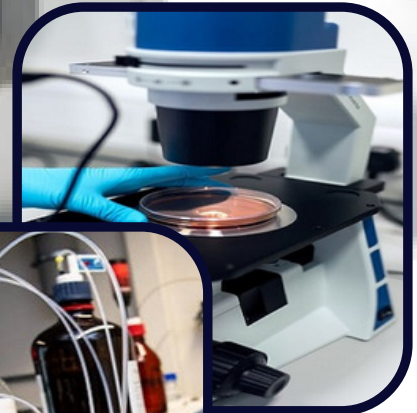
- Biotech Research Labs
- Pharma Companies
- CROs & Biotech
- Bio-pharma Production
- Testing Lab
- Public Health & Govt Labs

ASK FOR CUTOMISED TRAINING FOR WORKING PROFESSIONALS

Customized training programs for working professionals in pharma / biotech / research lab can cover a range of topics, including Molecular Genetics, Immunoassay, Flow Cytometry, HPLC, Cytogenetics and Microscopy. We will decide training fee for customised program after mutual discussion.

GENERAL INFORMATION

- We have not included the basic experiment like; chemical preparation, normality, molarity, buffers, electrophoresis, media preparation, pH, sterilisation etc.
 - You will **use bioinformatics tool** during your experiments.
 - **All basic test are automatically incorporated in our training.**
 - You will **get certificate** after completion of training program.
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About Us

We aim to provide the highest quality services to our clients, considering our performance, consistency, safety, and value. To achieve this, we are continually improving processes, products, and services, meeting and exceeding customer satisfaction at all times.



Lab Services



Research



Testing



Products

Why Choose Us?

We have a dedicated team of chemists, biotechnologists, analysts, engineers, and specialists to assist in our technological solutions and product development.