EXPLORE OUR TRAINING PROGRAM FOR INTERNATIONAL STUDENTS

Industry Updated 100% Hands On Learning

Our training programmes are specifically created for the career advancement of students to assist them in learning about cutting-edge technologies and enhancing their abilities for food, pharma. biotechnology. pharmaceutical industry and research.

Our Program For

- Healthcare Industry
- Biotechnology Research
- Biopharmaceuticals
- Food Industry
- Cosmetic Industry
- Forensic Science

State of art Lab Facility	Industry Updated Learning	5000 Square Feets Lab Space

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info@allelelifesciences.com

BE THE EXPERT
FOR

DIAGNOSTICS & HEALTHCARE INDUSTRY

HANDS ON LEARNING

- Real Time PCR
- Flow Cytometry
- Immunoassay
- Biochemistry
- PCR
- ELISA
- Immunofluorescence
- Microbiology

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Diagnostics & Healthcare Industry

Module 1: Nucleic Acid Extraction (DNA & RNA) & Its Purity Analysis

Unit 1: DNA Extraction
Unit2: Quantitative & Qualitative Analysis of DNA Qualitative Analysis of DNA
Unit3: RNA Extraction
Unit4: RNA Quantification and Purity Check

Module 2: PCR For Disease Diagnosis

Unit 1: RNA Extraction & mRNA Purification
Unit 2: First Strand cDNA Synthesis
Unit 3: Qualitative RT-PCR
Unit 4: Nested PCR for Molecular Diagnostics

Module 3: Real Time PCR & Molecular Diagnostics

Unit 1: Total RNA Extraction & First Standard cDNA Synthesis
Unit 2: Basics of Real Time PCR, Primer Design and Software
Unit 3: Real Time PCR Sample Run for molecular diagnosis
Unit 4: Data Analysis and Reporting

Module 4: ELISA & Diagnostics

Unit 1: Understand principles of ELISA and immunodiagnostics
Unit 2: Plate coating, blocking, washing, sample loading
Unit 3: Reading absorbance using ELISA reader
Unit 4: Plotting standard curve, interpreting OD values

Module 5: Flow Cytometry in Diagnosis

Unit 1: Basics of Flow Cytometry & its application in clinical diagnostics
Unit 2: Sample Preparation for BD Flow Cytometer
Unit 3: Sample run for detection
Unit 4: Analyse data with Flow Cytometer Software

Module 6: Immunofluorescence Assay For Diagnosis

Unit 1: Basics and Calibration of FL-Microscopy
Unit2: SYBR® Green Staining for Microscopy
Unit3: Immunofluorescence Characterization
Unit4: Olympus FluoView FV1000 software

Module 7: Microbial Diagnosis

Unit 1: Total RNA Extraction & mRNA Purification
Unit 2: First Strand cDNA Synthesis
Unit 3: Qualitative RT-PCR
Unit 4: Nested PCR for Molecular Diagnostics

Information

TRAINING FEE (Diagnostics & Healthcare Industry

USD 500

DURATION

30 to 45 Days or 100 Hrs

EMPLOYMENT OPPURTUNITY IN HEALTHCARE SECTOR

Market Value (2024): ~$20–25 billion globally
Expected CAGR: >12% annually (2024–2030)
Projected Value (2030): ~$50–60 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:

- Molecular Diagnostic Labs
- Genomics Companies
- CROs & Biotech
- Public Health & Govt Labs

ASK FOR CUTOMISED TRAINING FOR WORKING PROFESSIONALS

Customized training programs for working professionals in diagnostics 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

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- You will **use bioinformatics tool during your experiments**.
- A**ll basic test are automatically incorporated** in our training.
- You will **get certificate** after completion of training program.
- We need Valid VISA & FRRO Registration
- We do not provide any Food or Accommodation

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

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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 - USD 500

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 - USD 500

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
Unit2: Sample and Standard Preparation of Pharma Product
Unit3: Chromatographic Conditions and Sample run
Unit4: 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 -USD 500

Important Information

TRAINING FEE (Pharma, Biopharma & Biotech Industry

Bio-pharma Research - USD 500
Bio-pharma Production - USD 500
Pharma/Bio-pharma Testing- USD 500

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.
- We need Valid VISA & FRRO Registration
- We do not provide any Food or Accommodation

BE THE EXPERT
FOR

FOOD & NEUTRACEUTICAL INDUSTRY

HANDS ON LEARNING

- Real Time PCR
- Flow Cytometry
- Immunoassay
- Biochemistry
- PCR
- ELISA
- Immunofluorescence
- Microbiology

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Training For Food Science & Industry

Module 1: Food Microbial Analysis

Unit 1: Direct Microscopic Examination of Food Products
Unit2: Aerobic Mesophilic Plate count- Streaking & Plate Count
Unit3: Enumeration of Food Microbes & Colony Counting
Unit4: Detection and confirmation of Salmonella species in Food Sample

Module 2: PCR Multiplexing in Food Samples

Unit 1: Extraction, Purification and optimisation of both Food Microbial DNA
Unit 2: Qualitative and Quantitative Analysis of DNA
Unit 3: Primer Design and Optimisation of Annealing Temperature
Unit 4: PCR Multiplexing analysis for Meat Adulteration

Module 3: Food Allergen Screening by Real Time PCR

Unit 1: Sample Preparation & DNA Extraction
Unit 2: Basics of Real Time PCR, Primer Design and Software
Unit 3: Real Time PCR Reaction Setup
Unit 4: Data Analysis and Reporting

Module 4: Food Preservative Analysis by HPLC

Unit 1: Sample Preparation Example (Benzoic/Sorbic Acid in Juice)
Unit 2: Mobile Phase & Standard Preparation
Unit 3: Basics of HPLC, Software & Sample Run
Unit 4: Data Analysis & Reporting

Module 5: Toxins Analysis & Gas Chromatography

Unit 1: Analysis of Hydroxy Benzoates (Parabens) in Food sample
Unit2: Analysis of Cyclamate in Food Sample
Unit3: Basics of Gas Chromatography & Sample Preparation
Unit4: Data Analysis & Reporting

Module 6: Nutrient Analysis of Food Products

Unit 1: Amount of crude protein
Unit 2: Total carbohydrates Analysis
Unit 3: Amount of crude Fibre
Unit 4: Total Fat / Lipid Analysis

Module 6: Amino Acid Analysis in Food Sample

Unit 1: Amount of crude protein
Unit 2: Total carbohydrates Analysis
Unit 3: Amount of crude Fibre
Unit 4: Total Fat / Lipid Analysis

Important Information

TRAINING FEE (Food Industry)

USD 500

DURATION

30 to 45 Days or 100 Hrs

EMPLOYMENT OPPURTUNITY IN FOOD INDUSTRY

Market Value (2024): ~$20–25 billion globally
Expected CAGR: >12% annually (2024–2030)
Projected Value (2030): ~$50–60 billion

OUR OBJECTIVES

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

Hiring Sectors:

- Food Research Labs
- Food Industry
- Nutraceutical Industry
- Testing Lab

ASK FOR CUTOMISED TRAINING FOR WORKING PROFESSIONALS

Customized training programs for working professionals in food industry can cover a range of topics, including Food Genetics, Immunoassay, HPLC, ELISA and Gas Chromatography. 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 learn during hands on learning.
- You will **use bioinformatics tool during your experiments**.
- **All basic test are automatically incorporated** in our training.
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- We need Valid VISA & FRRO Registration
- We do not provide any Food or Accommodation

BE THE EXPERT
FOR

COSMETICS & FRAGRANCE INDUSTRY

HANDS ON LEARNING

- Cell Culture
- Flow Cytometry
- HPLC
- Biochemistry
- Microbiology
- Spectroscopy
- Gas Chromatography
- Distillation

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Training For Cosmetics Industry

Module 1: Microbial Evaluation of Cosmetics

Unit 1: Total Aerobic Microbial Count (TAMC)
Unit2: Determination of Microbial Load in Cosmetics
Unit3: Preservative Efficacy Test
Unit4: Pathogen Detection in Cosmetics

Module 2: Cell Viability & Regeneration Assays

Unit 1: Culture of dermal cell for assays
Unit 2: Cytotoxicity of cosmetic ingredients
Unit 3: Scratch Wound Healing Assay
Unit 4: β-galactosidase staining in cells & analysis

Module 3: Antioxidant, Anti-Aging & SPF Activity Testing

Unit 1: ABTS Radical Cation Decolorization Assay
Unit 2: Collagen ELISA in Anti-Aging Cosmetics
Unit 3: SPF (Sun Protection Factor) Testing
Unit 4: Total Phenolic Content (TPC) Assay

Module 4: Genotoxicity of Cosmetic Product

Unit 1: Revival and Culture of Cryopreserved Cells
Unit 2: In Vitro Micronucleus Assay
Unit 3: Comet Assay (Alkaline Version)
Unit 4: Ames Test (Bacterial Reverse Mutation Test)

Module 5: Analysis of Toxins in Cosmetics

Unit 1: Cosmetic Sample Preparation for Toxins
Unit 2: Method Validation for Toxin Analysis with HPLC
Unit 3: HPLC Sample Run
Unit 4: Data Analysis & Reporting

Module 6: Distillation & Analysis of Fragrance Oil

Unit 1: Raw Material Identification & Evaluation
Unit2: Extract Fragrance oils using Steam Distillation
Unit3: Collection of Oil & Solvent Distillate
Unit4: Analytical Techniques for Fragrance

Module 7: Analysis of Finished Cosmetic Products

Unit 1: pH & Viscocity analysis
Unit 2: Water Activity (aw) Test
Unit 3: Sensory Evaluation & Hedonic Scoring of Perfume Blends
Unit 4: Refractive Index Analysis

Important Information

TRAINING FEE (Cosmetics Industry)

USD 500

DURATION

30 to 45 Days or 100 Hrs

EMPLOYMENT OPPURTUNITY IN COSMETICS SECTOR

Market Value (2024): ~$22.8 billion
Expected CAGR: >9% annually (2024–2030)
Projected Value (2030): ~$40.8 billion

OUR OBJECTIVES

Human Resource Generation refers to the systematic development of skilled professionals to meet the growing demands of the cosmetics & fragrance industry. With the rapid expansion of technologies.

Hiring Sectors:

- Cosmetics Industry
- Fragrance Industry
- Cosmeceutical Industry
- Testing Lab

ASK FOR CUTOMISED TRAINING FOR WORKING PROFESSIONALS

Customized training programs for working professionals in diagnostics can cover a range of topics, including Genetics, Immunoassay, cell culture, Cytogenetics, HPLC, Gas Chromatography and Microscopy. We will decide training fee for customised program after mutual discussion.

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- You will **use bioinformatics tool** during your experiments.
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- We need Valid VISA & FRRO Registration
- We do not provide any Food or Accommodation

BE THE EXPERT
FOR

FORENSIC SCIENCE LAB

HANDS ON LEARNING

- Real Time PCR
- HPLC
- Spectroscopy
- Biochemistry
- PCR
- Gas Chromatography
- Low Pressure Chromatography
- Ion Exchange Chromatography

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Training For Forensic Science Lab

Module 1: Nucleic Acid Extraction (DNA & RNA) & Its Purity Analysis

Unit 1: DNA Extraction
Unit2: Quantitative & Qualitative Analysis of DNA Qualitative Analysis of DNA
Unit3: RNA Extraction
Unit4: RNA Quantification and Purity Check

Module 2: STR Analysis

Unit 1: DNA Extraction, Quantitative & Qualitative Analysis of DNA
Unit 2: PCR Amplification of Y-STR Loci
Unit 3: PAGE Setup
Unit 4: Visualization in Gel Documentation System & Analysis

Module 3: SNP Typing Using Real-Time PCR

Unit 1: Mitochondrial DNA Extraction & Analysis
Unit 2: Basics of Real Time PCR, Primer Design and Software
Unit 3: Allele-Specific Real Time PCR Run
Unit 4: Data Analysis and Reporting

Module 4: Analysis of Forensic Toxicology Samples

Unit 1: Solid Phase Extraction of Drugs from Urine
Unit 2: Clean-up using Alumina and Silica Column
Unit 3: Analysis of toxic compound in Gastric Lavage by HPLC
Unit 4: Data Analysis & Report Preparation

Module 5: Analysis of Toxic Anions by Ion Exchange Chromatography

Unit 1: Protein Precipitation or Extraction of sample
Unit 2: Dialysis of Forensic analysis
Unit 3: Selective Chemical Treatment and Microdiffusion of Forensic analysis
Unit 4: Instrument Setup, Run and Detection:

Module 6: Toxins Analysis by Gas Chromatography

Unit 1: Sample Preparation - Solid-phase extraction (SPE) for blood, urine, or food
Unit2: Derivatization for thermolabile or non-volatile toxins
Unit3: Basics of Gas Chromatography & Sample Run
Unit4: Qualitative and Quantitative Identification of Toxins

Module 7: Sample Collection & Preservation

Unit 1: Collection of Biological Evidence
Unit 2: Buccal Swab Collection and Documentation
Unit 3: Packaging, Labeling & Chain-of-Custody Form Preparation
Unit 4: Preservation of DNA Samples under Different Conditions

Important Information

TRAINING FEE (Forensic Science Lab)

USD 500

DURATION

30 to 45 Days or 100 Hrs

EMPLOYMENT OPPURTUNITY IN FORENSICS

Market Value (2024): ~$ 340M
Expected CAGR: >13% annually (2024–2030)
Projected Value (2030): ~$ 793M

OUR OBJECTIVES

Human Resource Generation refers to the systematic development of skilled professionals to meet the growing demands of forensic science With the rapid expansion of forensic technologies.

Hiring Sectors:

- Forensic Labs
- Insurance Companies
- Law Firm
- Govt Labs

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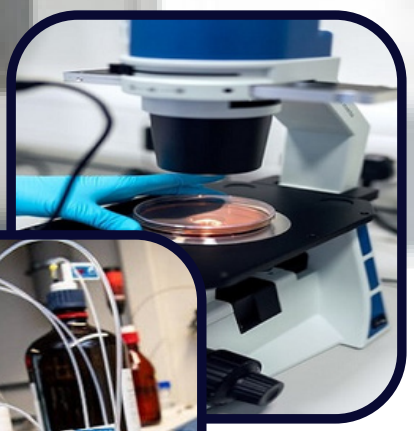

About Us

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.

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