

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

Join Us Now

Send Your Resume

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Our Website

www.allelelifesciences.com

Contact Us

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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)

INR 20,000 /-

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

ASK FOR CUTOMISED TRAINING FOR WORKING PROFESSIONALS

Customized training programs for working professionals in diagnostics can cover a range of topics, including Molecular Genetics, Real Time PCR, HPLC, Gas Chromatography 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 learn during hands on learning.
 - 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.