

## ADVANCE TRAINING FOR COSMETIC & PERFUME INDUSTRY

The overall goal of the training program is to provide the trainee with the skills they will need to provide appropriate cosmetic / fragrance product testing and management for Cosmetic Industry. Cosmetic / Fragrance Chemist develop and apply stringent methods of chemical analysis to the product before it goes on the market or quality control chemist, utilises chemistry lab skills to test and measure materials, generally in a manufacturing or product development.

### SCOPE OF THE TRAINING -

**Cosmetic Chemist** apply their extensive knowledge of chemistry to analyse the samples of cement , mortar , fire , arsons , cheating , bribe and cases of adulteration . We will provide you hands on experience to analyse the forensic samples and documentation before court of law .

**Perfume Chemist** identify and analyse Forensic DNA Samples. Forensic Consultant provide scientific and legal consultancy as forensic expert.



### Scope of training :

- Research & Development
- Forensic Science Lab
- Toxicology Research & Analysis
- Analytical Testing Lab
- Academic Institutions

### Advantage -

- Industry Oriented Design
- Sprit of the training is to make you employable
- Rigorous Hands on Learning
- Capacity Building
- State of art research facility
- Flexibility of Time & Working Hours

**Duration :** 250 Hours ( 2 - 3 Months ) **Timings :** Monday - Saturday ( 9 A.M to 5 P.M )

### Important Note:

- **This training program have the potential to make you employable**
- **As a part of our training program, we may suggest your name to our clients against available vacancy**
- **This training is limited to skill development only and we do not assure you for employment or campus interview**
- **Our prime motive is “Bridging Gap Between Industry & Academia”**

## TRAINING SYLLABUS

### UNIT – 1 LAB SAFTEY, PROCEDURES & REGULATION

**Basics of Cosmetic Laboratory :** Record Maintenance, Handling of Equipments , Sterilisation Techniques , Preparation of Chemical & Reagents. Discussion of ethical, legal, and social issues involved in Cosmetic & Perfume Industry, Cosmetic & Drug Regulations

### UNIT – 2 : QUALITY CONTROL AND QUALITY CHECKS IN COSMETIC MICROBIOLOGY

Quality Control Checks in Cosmetic Microbiology - New Methods , Comparison of Plate Counts , Duplicate Analysis , Sterility Check : Procedural Blank , Media Blank , Field Blank , Positive & Negative Control Cultures Total Coliform Analysis in Cosmetics & Documentation of Coliform Data.

### UNIT - 3 : HANDS ON LEARNING ON MICROBIOLOGY TECHNIQUES

Aerobic Mesophilic Plate Count – Preparation of Food homogenate , Dilution , Pour Plating , Incubation , Counting Colonies , Calculation , Result Analysis. Analysis of Aciduric Flat Sour Spore Formers in Food

**Analysis and characterisation of various** oils and fats for adulteration Qualitative analysis of Liquor – Chemical test for different oils and fats. Quantitative analysis of alcohols by Spectroscopy , TLC , HPLC & Gas Chromatography

### UNIT 4 : DETECTION OF COSMETIC PATHOGENS BY PCR TECHNOLOGY

**Introduction to PCR** , Primer Designing & Selection , PCR Optimization & Troubleshooting , PCR Run for Reactions , Analysis of PCR Results Detection of Food Pathogens by PCR

### UNIT 5 : DETECTION OF COSMETIC PATHOGENS BY REAL TIME PCR TECHNOLOGY

**Real Time PCR Technology** – Introduction to Real Time PCR , Primer Designing for Real Time PCR , Application of Real Time PCR in Food Genetics , Real Time PCR Run For Food Samples , Data Analysis

## COSMETIC CHEMISTRY & RESEARCH

### UNIT – 6 : QUALITY CONTROL AND QUALITY ASSURANCE

**Quality Control Checks in Cosmetics** - Physical and Chemical Analysis , Initial Method Validation , On Going Method Validation , Laboratory Blanks , Duplicate Determinations , Calibrations , Q.C. Calculations , Q.C. Charts etc. Operation and Calibration of Meters : pHMeter (Hanna , Thermo ) , Conductivity Meter , Dissolved Oxygen Meter , Spectrophotometer , Pipettes , Turbidity Meter etc.

### UNIT 7 - LEARNING ON HPLC , GC , SPECTROSCOPY AND OTHER TECHNIQUES

**Analysis of Food Samples by HPLC** – Basics of HPLC - Sample Preparation , Gradient Making , Parts of HPLC , Troubleshooting and Maintenance , Operating Procedure of HPLC , Run the sample in HPLC . Data Analysis

**Analysis of Food Samples by Gas Chromatography** – Basics of GC - Sample Preparation , Parts of GC , Troubleshooting and Maintenance , Operating Procedure of GC , Run the sample in GC , Data Analysis

## **UNIT 8 - ANALYSIS OF FINISHED COSMETIC PRODUCTS**

Viscosity Analysis, Refractive Index, Test of Allergens, pH analysis, moisture analysis in cosmetic products, Test of Amino Acids, Analysis of antioxidants used in cosmetic products, Determination of preservatives in cosmetics.

## **UNIT 9 - TOXICOLOGY OF COSMETIC PRODUCTS**

Test of Benzene, Test of BHT , Test of Formaldehyde etc. in finished cosmetic product, essential oil or fine fragrances Method – Spectroscopy , HPLC , GC

## **UNIT 10 - DEVELOPMENT & ANALYSIS OF PERFUMERY PRODUCTS**

Perfume Development, Purity Analysis of Essential Oil Identification of Adulterants, Purity Analysis, Formulation & Analysis of Fragrances Fragrance creation Strategies, Fragrance creation by natural oils, fragrance creation by synthetic compound, Novel Product Strategies, Quality analysis, Packaging Strategy, Marketing of Cosmetic Product

### **WHO MAY JOIN ?**

**Indian** Aspirants From Biotechnology , Microbiology , Biochemistry , Life Science , Chemistry , Pharmacy ,Forensic Science , Food Science etc.

**Fee Structure** : Rs 25,000 /- ( Payable in Two Instalments )

**Duration** : 250 Hours ( 2 - 3 Months ) **Timings** : Monday - Saturday ( 9 A.M to 5 P.M )

## HOW TO APPLY –


### Details of Documents For Registration :

1. Any identity proof along with University / College Identity Card / Aadhar Card etc.
2. Filled **Registration form** with photograph ( Given in Last Page of Brochure )
2. **Registration fee** will be Rs 1000 / - paid through cheque or on line payment

### How to pay Registration Fee Off Line ( Those Who Send Documents by Post ) :

1. Cheque or D.D will be in favour of “ **Allele Life Sciences Private Limited**”

### On Line Payment :

Payment By Internet Banking	Scan UPI Code
<b>Beneficiary Name - Allele Life Sciences Private Limited</b> <b>Account Number - 61071508494</b> <b>IFSC Code - SBIN0031811</b> <b>Bank Name - State Bank of India</b> <b>Bank Address - SBI, 14/15, Sector-18, Noida, UP - 201301</b>  <b>Or Pay Through UPI / BHIM App</b> <b>UPI Address - allelelifesciences@upi</b>	

### How to send document :

Those who pay through cheque send all documents at following address :

#### **Allele Life Sciences Pvt. Ltd.**

C - 59 , Sector - 10 , Noida  
Uttar Pradesh - 201301 , IN  
M : + 91-9891179928

Those who opt on Line registration send scan copy of all documents and receipt of online payment at : [allelelifesciences@gmail.com](mailto:allelelifesciences@gmail.com)

**Note :** We will send confirmation within specified time through e.mail or remind us.

## Registration Form

Name of Training Program :

Expected Date of Joining :

Candidate Details :

Name: .....

Father's Name: .....

Address : .....

Contact No : .....

Email: .....

Institution : .....

Qualification : .....

### Terms & Conditions :

1. The admission to training / internship programs will be confirmed after the payment of registration fee along with documents.
2. The registration fee deposited is completely non refundable.
3. The industrial training fee includes the cost of chemical , reagents and study material costs.
4. I will deposit the service charges as decided by the company at the time of joining date of training program.
5. Students have to bear their own boarding/lodging /conveyance charges. We facilitate students in finding proper paying guest arrangements.
6. The trainees will have to bring their own lab coat and wear them all the time in the campus.
7. Trainees are selected on first come first serve basis
8. Trainees will maintain adequate discipline inside the lab premises.
9. Company will not be responsible for any medical, legal issues during the internship tenure.

### DECLARATION

I \_\_\_\_\_ from \_\_\_\_\_  
hereby declare that all statement/information given in the application form are true to the best of my knowledge and belief . I will strictly abide by the norms/lab etiquette during the training

Signature

Place: \_\_\_\_\_

Date: \_\_\_\_\_

**For office use only**

## Instruments Capabilities

**Our State of art facility** is located in Industrial Area of Noida (NCR) . The lab / research facility is Total : 6000 Sq Feet

<b>Affymatrix &amp; Agilent Microarray Platform</b>	Gene Expression Studies, Biomarker, Sequencing
<b>Real Time PCR ( ABI )</b>	Gene Expression, Sequence Detection
<b>PCR ( ABI, Biorad , Eurofins ) - 5 in numbers</b>	Amplification of nucleic acids
<b>Bioanalyser &amp; Spectrophotometer</b>	Quantification of Nucleic Acids
<b>Gel Documentation System</b>	Visualisation of Nucleic Acids, PCR Products etc.
<b>Electrophoresis &amp; Power Supply ( Biorad ) - 7 Sets</b>	Separation of Nucleic Acids & Other Arrays
<b>DNA Concentrator ( Thermo Speedvac )</b>	Nucleic Acid Extraction
<b>Centrifuge, High Speed Centrifuge - 8 Nos</b>	Sample Preparation
<b>PCR Station and other accessories</b>	

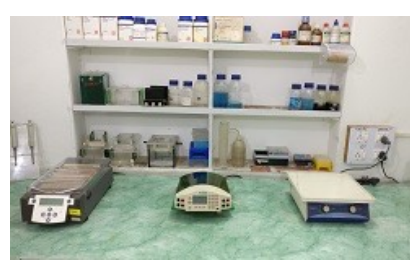
<b>Biorad Profinia Affinity Chromatography</b>	Affinity Chromatography - IMAC, GST, Antibody
<b>Biorad Biologic Low Pressure Chromatography</b>	Size Exclusion, Ion Exchange, Affinity etc.
<b>Preparative HPLC ( Thermo ) , Agilent 1100</b>	Bulk Protein Purification & Analysis
<b>GE Amersham 2-D Electrophoresis System</b>	Protein Characterisation
<b>Immunoblot, SDS-PAGE , Biorad HV Powerpac</b>	Visualisation of Nucleic Acids, PCR Products etc.
<b>Mass Spectrometry , ELISA, Immunoassay</b>	Protein Identification
<b>Cryo Preservation Facility &amp; Common Facility</b>	Sample Storage & Preparation

<b>Agilent HPLC System - PDA, FLD &amp; ECD Detector</b>	Separation and analysis of molecules
<b>Agilent GC with FID &amp; FPD Detectors</b>	Separation and analysis of molecules
<b>Thermo Prep HPLC with Dual Pump &amp; UV-Vis</b>	Bulk Purification & Analysis
<b>Shimadzu GC with FID &amp; NPD Detector</b>	Separation and analysis of molecules
<b>Triple Quad GC-MS System ( Agilent )</b>	Analysis of Semi Volatile & Volatile Compound
<b>LC-MS-MS ( API Sciex )</b>	Analysis of Non Volatile Compound
<b>Varian Carry Spectrophotometer</b>	Analytical Tool for various purpose
<b>Thermo Helios Spectrophotometer</b>	Analytical Tool for various purpose
<b>Vacuum Rotary Evaporator ( Buchi )</b>	Sample Preparation



## Other Analytical Chemistry Equipments :

Refractometer , Flame Photometer ( Toshniwal), Karl Fisher Titrator (Sistrionics), Potentiometer, Polarimeter , Tintometer ,Viscometer , Kjeldahl Distillation Unit , Kjeldahl Digestion Unit , Ion Selective for Fluoride Analysis ( Thermo Orion ) , Nephelometer , Soxhlet Extraction , Rotatory Vaccum Evaporator with chiller , etc.



**Microbiology & Cell Culture Facility :** Vertical Laminar Air Flow ( 4x2x2 ) , Horizontal Laminar Air Flow ( 2x2x2 ) B.O.D. Incubator ( Julabo ) , CO<sub>2</sub> Incubator ( Jauan ) , Orbital Incubator Shaker, UV Chamber , Incubator, Colony Counter , Colorimeter , Muffle Furnace , Hot Air Oven , Desiccators, Binocular Microscopes and , Lypholizer

**Biochemistry / Organic Synthesis Chemistry Lab :** Spectrophotometer ( Thermo Heleus Alpha ) , Analytical Balance ( Sartorius ) , Ph Meter ( Thermo Orion ) , Ion Selective (Thermo Orion) , Conductivity Meter ( Thermo Orion ) , Dissolved Oxygen Meter ( Thermo Orion ) , Turbidity Meter, Autoclaves, Hot Air Oven , Hot Plate , Magnetic Stirrers , Pipette Washer , Shaking Machine , Water Bath , Colorimeter , Flame Photometer , etc.

**Lab Water Purification :** Millipore Milli Q System

**Clinical Biology Lab :** Haematology Analyser , Automatic Immunoassay, Haematology HPLC Biorad Variant II



**Allele Life Sciences © Ltd ,**  
C - 59 , Sector - 10 , Noida , Uttar Pradesh - 201301  
**Phone :** +91- 0120 - 2540133  
**Cell Contact - 9891179928 , 8377082003**  
**E.mail:** allelelifesciences@gmail.com  
**Web :** [www.allelelifesciences.com](http://www.allelelifesciences.com)

**Locate at Google Map**

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