

ADVANCE TRAINING FOR FOOD & BEVERAGE INDUSTRY

The overall goal of the Food Biologist training program is to provide the trainee with the skills they will need to provide appropriate food testing and management for a wide variety of food and beverage products.

SCOPE OF THE TRAINING -

Food & Beverage Biologist apply their extensive knowledge of to analyse the microbial burden in food products and try to make processed foods healthier. Some may even use food genetics or molecular biology to develop ways to find food contaminants .

Food Chemist apply their extensive knowledge of to analyse the nutritional value of food, look for new food sources, and try to make processed foods healthier. Some may even use nanotechnology to develop ways to find food contaminants.



Scope of training :

- Research & Development
- Food Testing Lab
- Food & Beverage Industry
- Analytical Testing Lab
- Academic Institutions

Advantage -

- Industry Oriented Design
- Spirit 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 : FOOD LAB SAFETY , STANDARDS , REGULATORY AND SOP'S

Law of Food Safety and Standards Food Products Regulatory Bodies Standard Operating Procedures in Food Analysis

UNIT – 2 : QUALITY CONTROL AND QUALITY CHECKS IN FOOD MICROBIOLOGY

Quality Control Checks in Food 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 Food & 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

UNIT 4 : DETECTION OF FOOD 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 FOOD 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

FOOD CHEMISTRY & RESEARCH

UNIT – 6 : QUALITY CONTROL AND QUALITY ASSURANCE

Quality Control Checks in Water - 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

Analysis of Food Samples by Spectroscopy –

Basics of Spectroscopy - Sample Preparation , Calibration and Calibration Curve , Recovery Percentage etc. Analysis by Thin Layer Chromatography – Sample Preparation , Solvent Selection , Spray Selection , Visualisation and analysis of TLC bands.

UNIT 8 - Biochemical Assay For Food Analysis

Analysis of Fat , Protein , Carbohydrate , Lipids , Sugars , Vitamins etc.

Analytical Method – HPLC , GC , Spectroscopy and other biochemical methods.

UNIT 9 – Analysis of Adulteration in Food Products

Analysis of adulteration in Fat & Oils Analysis of adulteration in Pulses Adulteration in Vegetables

Analytical Method – HPLC , GC , Spectroscopy and other biochemical methods.

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

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

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

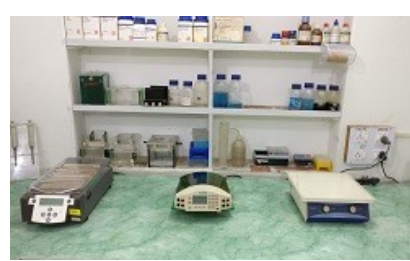
Affymatrix & Agilent Microarray Platform	Gene Expression Studies, Biomarker, Sequencing
Real Time PCR (ABI)	Gene Expression, Sequence Detection
PCR (ABI, Biorad , Eurofins) - 5 in numbers	Amplification of nucleic acids
Bioanalyser & Spectrophotometer	Quantification of Nucleic Acids
Gel Documentation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

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

Agilent HPLC System - PDA, FLD & ECD Detector	Separation and analysis of molecules
Agilent GC with FID & FPD Detectors	Separation and analysis of molecules
Thermo Prep HPLC with Dual Pump & UV-Vis	Bulk Purification & Analysis
Shimadzu GC with FID & NPD Detector	Separation and analysis of molecules
Triple Quad GC-MS System (Agilent)	Analysis of Semi Volatile & Volatile Compound
LC-MS-MS (API Sciex)	Analysis of Non Volatile Compound
Varian Carry Spectrophotometer	Analytical Tool for various purpose
Thermo Helios Spectrophotometer	Analytical Tool for various purpose
Vacuum Rotary Evaporator (Buchi)	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) , CO₂ 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

Locate at Google Map

[https://www.google.com/maps/place/Allele+Life+Sciences+\(P\)+Ltd/@28.5886515,77.3345613,16.62z/data=!4m5!3m4!1s0x0:0xfab3f2cf3ca21b!8m2!3d28.5890149!4d77.3327766?hl=en-US](https://www.google.com/maps/place/Allele+Life+Sciences+(P)+Ltd/@28.5886515,77.3345613,16.62z/data=!4m5!3m4!1s0x0:0xfab3f2cf3ca21b!8m2!3d28.5890149!4d77.3327766?hl=en-US)