

TRAINING IN FOOD SCIENCE & RESEARCH FOR INTERNATIONAL SCHOLARS

The overall goal of the training program **TRAINING IN FOOD SCIENCE & RESEARCH** 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 analyze 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 & Beverage Chemist apply their extensive knowledge of to analyze 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 .

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 LABORATORY

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

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 - 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

Total Coliforms Analysis in Food & Documentation of Coliform Data.

UNIT 4 - DETECTION OF FOOD PATHOGENS BY PCR AND REAL TIME 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

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

UNIT 5 - HANDS ON 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 , Visualization and analysis of TLC bands.

UNIT 6 - Biochemical Assay For Food Analysis

Analysis of Fat , Protein , Carbohydrate , Lipids , Sugars , Vitamins or any other tests you require for analysis

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

UNIT 7 – Analysis of Adulteration in Food Products

Analysis of adulteration in Fat , Oils , pulses , Vegetables , bevarages or any sample you required

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

WHO MAY JOIN ?

Professionals for Food Industry , Food Lab or Students From Food Science , Biochemistry , Microbiology , Chemistry , Biotechnology , Life Science etc.

SELECTION CRITERIA :

FEE FOR TRAINING PROGRAM : USD 1500

DURATION - 20 to 30 Days (Timing 8.00 AM to 8 P. M)

APPROVAL OF THE TRAINING PROGRAM :

This training program is designed and approved by the organization Scientific Advisory Committee.

HOW TO APPLY –

Details of Documents :

1. Any identity proof along with University / College Identity Card
2. Valid Passport
3. Recommendation letter from Head of the Institution
4. Filled Registration form of Allele Life Sciences (P) Ltd with photograph
5. Registration fee will be USD 50
6. Registration fee will be paid through On Line Transfer :

For Details for on line Payment :

Kindly write us for bank Details For On Line Transfer at : allelelifesciences@gmail.com

For on Line Registration Send scan copy of all documents at : allelelifesciences@gmail.com

Note : Kindly send the receipt of the registration fee along with scan documents.

TNote : We will send confirmation at your email address withi 7 days.

For Any other query mail at : allelelifesciences@gmail.com or Call at - +91-9818185162

Registration Form is Given at nest page



Registration Form

Photograph

Name of Training Program :

Expected Date of Joining :

Candidate Details :

Name: Mr./Ms. _____

Father's Name: _____

Address : _____

Contact No. : _____ Mobile 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.

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