

# Internship in Analytical Testing & Quality Control

## Bridging Gap Between Industry & Academia



The overall goal of the training program is to provide the trainee with the skills they will need to provide appropriate product testing and management for pharma, food, cosmetic, perfumery, chemical industry.

**Analytical 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.

### OBJECTIVES :

- To develop the skill with latest technologies used in Analytical Testing
- Lab facility with dedicated scientific advisory and research assistants
- Documentation of all experimental work
- Data Handling and interpretation

1

### GENETICS LAB

Hands on learning in genetics lab with industry standard tools

2

### ANALYTICAL LAB

Test finished product of your choice in analytical testing lab

3

### MICROBIOLOGY

Learn new microbiology techniques and process

### ANALYTICAL

#### Microbial Analysis



#### Analytical Lab



#### Q-PCR & PCR Analysis



#### HPLC Analysis

#### GC Analysis

#### Analytical Lab

#### Documentation

## UNITS TO BE COVERED : - All Units are compulsory For Training in Genomics & Molecular Biology

### Unit I - Lab safety, Regulatory, Procedures and Documentation

Record Maintenance, Handling of Equipments , Sterilisation Techniques , Preparation of Chemical & Reagents. Discussion of ethical, legal, and social issues involved in genomics study and research.

### Unit II - Microbiology Procedures & Data Handling

**Regulatory Compliance of Cosmetics:** Microorganisms in raw materials, Risk assessment, Microorganisms in manufacturing environment, current GMP, Microbial contamination in cosmetic products. Microbial considerations in product formulation. **Microbiological evaluation:** Total microbial count, Isolation and identification of microorganisms specified in BIS guidelines from cosmetic products and raw materials & **Determination of Microbial Load in finished product**

### Unit III - Genetics Lab Procedures

**Analysis of sample by PCR, Real Time PCR & Other Techniques:** Primer Designing, Vectors , Selection of Restriction Sites, Virtual PCR, Bioinformatics tools & Techniques, Gel Analysis Software, Real Time PCR Primer Design, Q-PCR Data Handling, Sequence Data Analysis,

### Unit IV - Basic Analytical Lab Tools & Technologies

Chemical Assays by Titration, Elemental Analysis by Ion Meter & Flame Photometer, Karl Fisher Titration for moisture, Dissolved Oxygen Analysis, TDS, Estimation of Protein, Lipids, Carbohydrate, Vitamins, Fat and other compounds.

### Unit V - Chromatography Lab Practices

Basics of Spectroscopy, chromatography, HPLC, GC and Mass Spectrometry. **Analysis of Preservative / Adulterants** by Spectroscopy , analysis of any Preservative / Adulterants by HPLC , Analysis of Preservative / Adulterants by Gas Chromatography , Data Analysis of Chromatography Data : Software Handling & Data Analysis .

### Unit VI - Sample Run, Handling & Q.C Reporting

**One sample of any finished product of your choice with complete q.c report**

- Packed Food Quality Analysis Report with Experimental Data
- Pharmaceutical Product Q.C Report with Experimental Data
- Chemical or Cosmetic Product Q.C Report with Experimental Data

### PROJECT WORK :

We will provide a project work of your interested area, our assigned projects will be on product development, basic research and novel idea . **We do respect and welcome all feasible ideas** suggested by you for technology development in life science research.

### TECHNIQUES COVERED IN THIS PROGRAM :

Nucleic Acid Extraction ,Optimisation, Electrophoresis, Imaging and Data Analysis, DIN/RIN Quantitative Analysis , Advance Bioinformatics tools and softwares, PCR & Real Time PCR Assay Development and Data Analysis, rDNA Technology, cDNA Construction, Basics of Microarray , Bio-separations by HPLC &

### BENEFITS OF THE TRAINING PROGRAM :

1. Research & Development in Bio-Pharmaceutical Sector
2. Molecular Diagnostics in health care
3. Doctoral Research
4. Bridging Gap in Academic Program
5. Boost your confidence

## INFORMATION TO APPLY FOR THE PROGRAM

### WHO MAY JOIN :-

Any enthusiast and dedicated learner from life science, biotechnology, chemistry or applied sciences

### SELECTION CRITERIA:-

First come first serve basis



### TRAINING FEE :

Rs 10,000 / - For 30 Days Training & Rs 12,000 /-For 45 Days ( Training + Project Work )

### HOW TO APPLY –

#### Details of Documents :

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

#### How to pay Registration Fee :

1. Cheque will be in favour of **Allele Life Sciences Private Limited**
2. **For on line payment detail send request at : [allelelifesciences@gmail.com](mailto:allelelifesciences@gmail.com)**

#### 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  
Ph.No : + 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. If not received send a reminder mail.

**For Any other query mail at : [allelelifesciences@gmail.com](mailto:allelelifesciences@gmail.com) or WhatsApp - 9891179928**

**Registration Form is Given at next page**



## 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.

### 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**