

Internship in Proteomics & Protein Chemistry

Life Science is a knowledge-based industry requiring manpower that has the right combination of understanding the technology as well as managerial expertise. We offer comprehensive and in-depth practical hands on training for industrial or research needs.

We are well recognised in the area of life science in which a number participants from diverse scientific fields like biotechnology, biochemistry, human genetics, forensic science, food science & technology, life sciences, microbiology, chemistry, medical sciences, vet sciences, agriculture, Pharmacy etc.



Designing & Implementation of Training Programs

Our Mission at Allele Life Sciences is to offer innovative and exceptional analytical technical process for industry & Research. Our training programs will build and strengthen skills in the specific tasks to be completed for efficient functioning of the industry.

Our Advantage

- Syllabus with latest technologies
- Capacity to implement hands on learning with state of art research facility
- Dedicated Research Advisory
- Periodical Review of the Syllabus
- Validated Protocols & Manuals
- Compulsory One Week Instrumentation Learning

After successful completion of the summer internship, they will get their **Certificate** along with **Evaluation Sheet** (E-Copy of the certificate will be send to their concerned institution for validation)

Training Fee Per Module Indian Nationals:

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

Admission Criteria : First Come - First Serve

Note -

1. Read and analyse the brochure thoroughly and carefully for career development
2. All Units of selected module will be covered

Module Hands on Learning Syllabus:-

Proteomics is an interdisciplinary field of science within the field of molecular biology and study proteins and their functions, and related techniques. The overall goal of the Internship in Proteomics & Protein Chemistry training program is to provide the trainee with the skills they will need to provide appropriate proteomics hands on techniques.

This program covers in-depth hands on learning; Protein Extraction, Purification, Estimation, Characterisation and identification techniques



Unit I - Lab safety and Procedures :

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- Protein Extraction & Protein Assay

Protein Extraction, Acid Base Equilibrium, pH, Buffer System, Charge, pI and pKa Value, Quantitative determination of biomolecule, mini scale bacterial protein extraction, protein extraction from plant source or other biological source

Unit III - Protein Estimation & Quantitation

Protein estimation by Lowry's Assay / Biuret Assay / Bradford's Method / BCA Method, Densitometry Analysis of Protein

Unit IV - Protein Purification by FPLC, LPLC & HPLC

Purification of Protein by Affinity Chromatography (IMAC / GST / Sepharose etc), Ion Exchange Chromatography, Size Exclusion and Hydrophobic Purification, Desalting, Dialysis, Ultrafiltration and centrifugation.

Unit V - Protein Characterisation

Protein Characterisation by SDS-PAGE, Native Page, Zymography, Iso Electric Focussing, 2-D Electrophoresis, Western Blot, Staining by Coomassie Blue, Supra Ruby, Deep Purple Protein Fingerprinting, Immunodiffusion Assay

Unit VI - Amino Acid Analysis by Chromatography

Sample preparation, Hydrolysis, Derivatization, Separation of derivatized amino acids, Data Interpretation and calculation

Unit VI - Protein Bioinformatics

Analysis of 2-D Data, Peptide Mass Fingerprinting Data Analysis (LC-MS MALDI-TOF), Homology Modelling, Molecular Docking

TECHNIQUES COVERED IN THIS PROGRAM :

Enzyme Extraction & Optimisation, Simulation Studies for enzyme kinetics, Enzyme estimation by spectrophotometer, Enzyme Purification by FPLC, Affinity, HPLC or Gas Chromatography, Enzyme characterisation by SDS-PAGE and electrophoresis, Fermentation

Information about Project Work with Training Program:

We will provide a project work of your interested area, our assigned projects will be on product development, basic research and novel idea like;

Extraction, purification and characterisation of amino acid from waste hair collected from saloon or bio waste / Development of aromatic massage oil for spa / Development of enzyme of food, industrial importance from cheap biological source / Development of microbial inoculate as bio-fertiliser / Development of clone / Method Validation procedures for analysis of micro molecules / Fertiliser from bio-waste / Bio-Energy / Development of Natural preservatives

• At the last we respect and welcome all feasible ideas suggested by you.....

Training Fee Indian Nationals:

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

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 |
|--|---|
| <p>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</p> <p>Or Pay Through UPI / BHIM App UPI Address - allelelifesciences@upi</p> |  |

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

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| 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 | |

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| 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 |

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| 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)