



PROJECT RESEARCH WORK IN BIOTECHNOLOGY

The overall goal of the training program is to provide the trainee with the skills they will need to provide appropriate research, testing and management for a wide variety of biotechnology, food , pharmaceutical, forensic and chemistry applications.



IMPORTANT NOTES :

- Industry Oriented, Interdisciplinary Approach Hands on Learning Projects
- State of art lab facility for hands on experience
- You may choose your area of interest for Project Research
- We will assign a research project with technical and financial review in your interested area with your discussion
- Project Research is a unique thinking of you with or without our support so do not ask for the list of the project

- 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”

DURATION OF TRAINING PROGRAM: Two Months to Six Months

TRAINING FEE FOR PROJECT WORK (INDIAN NATIONALS ONLY) :

Two Months : INR 12,000/-

Three Months : INR 18,000 /-

Six Months : INR 35,000 /-

Customised Project : INR 50,000 (Will create Good Data for Research Paper)

WHO MAY APPLY : BSc / B.Tech / MSc / MTech in any Life Sciences / Biotechnology studying or completed students

LAB TIMINGS :

Session I : 9 A.M to 1 P.M

Session II : 1 P.M to 5 P.M

Project-based learning and action research are powerful pedagogies in improving science education. The objective of this project is to provide you with the opportunity to develop problem solving and critical thinking skills, collaboration, and problem solving skills in the context of content-based knowledge that influences comprehension and academic self-confidence.

Project / Dissertation work is not only the essential part of a degree program but also a gateway for better career opportunities. Choosing a topic is not important, but what has been found in the research is the important . Laboratory research projects, an approach that yields a deeper understanding of how science is practiced by scientists through problem solving and the formulation and testing of a hypothesis-based research .

OUR PEDAGOGY FOR PROJECT RESEARCH WORK :

Choosing a thesis or training lab and a mentor may be the toughest problem that you will ever face, but it is an important one, and you will want to get it right the first time. A good place to start your search for the ideal lab is to consider what the goals and purpose of doing a thesis or training .

- Choose a problem to solve.
- Conduct a literature search
- Develop a hypothesis. This is basically the diagnosis of the problem.
- Write a research proposal, that will include a description of the problem, a literature review, a statement of your hypothesis, and a design of an experiment to test the hypothesis.
- Conduct the experiment you proposed in your proposal.
- Write a research report on the work you did to test your hypothesis..

Important Note :

- You will undergo for 2 week training program, which include; Lab Safety Procedures. Ethics, Chemical Preparation, Tools & Techniques of Biotechnology.
- In this time period you will decide your proposal for project research with the consultation and guidance of our team and your views.

CHOOSE YOUR AREA OF INTEREST :

Branches of Biotechnology :

1. Medical Biotechnology
2. Animal Biotechnology
3. Plant / Agriculture Biotechnology
4. Industrial Biotechnology
5. Environmental Biotechnology

Medical & Bio-Pharmaceutical Biotechnology :

Medical biotechnology is the use of living cells and other cell materials to better health of humans. Primarily, it is used for finding cures as well as getting rid of and preventing diseases.

It deals with diagnosis of various diseases; Infectious Diseases, cancer Diabetes, Genetic Disorders etc.

Large scale production of various drugs and hormones such as human insulin and interferon; vaccines , Growth Hormones, Blood Serum Proteins, antibiotics and other medically important products.

Industrial Biotechnology :

It deals with commercial production of various useful organic substances such as Biocatalyst, enzymes, acetic acid, citric acid, antibiotics like penicillin and many more products through the use of microorganisms especially fungi and bacteria.

Plant & Agriculture Biotechnology :

Plant biotechnology is a combination of tissue culture and genetic engineering. It deals with development of genetically modified plants with resistance to biotic and abiotic stresses; development of haploids, embryo rescue, clonal multiplication, cryopreservation, etc.

Environmental Biotechnology :

It deals with detoxification of waste and industrial effluents, treatment of sewage water, and control of plant diseases and insects through the use of biological agents such as viruses, bacteria, fungi, etc.

Animal Biotechnology :

It deals with development of transgenic animals for increased milk or meat production with resistance to various diseases. It also deals with in vitro fertilisation and transfer of embryo in animals including man.

Marine Biotechnology :

It is based on the use of marine resources to create products and applications in the potentially huge range of sectors to benefit from the use of this kind of biotechnology.

Food Biotechnology :

Relates to the use of biotechnology in food production, for example, in making wine, cheese, and beer by fermentation

MAJOR TECHNIQUES USED IN BIOTECHNOLOGY :

- Cell Culture Facility for Microbial, Plant and Animal Cell
- Gene Expression : PCR, RT-PCR, Real Time or Q-PCR, Sequencing & Microarray
- Gene Expression by Molecular Markers
- Genetic Manipulation by DNA Methylation Studies
- Recombinant DNA Technology
- Enzyme Engineering
- Fermentation Technology
- Protein Purification by Affinity, Ion Exchange, Size Exclusion and Reverse Phase Chromatography
- Protein Characterisation by ELISA, SDS-PAGE, Western Blot and Iso Electric Focusing
- Bio-Assay by Spectrophotometry, ELISA, HPLC, Gas Chromatography & Mass Spectrometry

LITERATURE SEARCH & PROPOSAL WRITING :

Prepare abstract for your research, Prepare a list of key words for your search, Make a list of the databases you will search, Use the bibliographies and references of research studies

Develop a hypothesis, which is basically the diagnosis of the problem.

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HOW TO APPLY –

Details of Documents For Registration :

1. Scan copy of Any identity proof along with University / College Identity Card / Aadhar Card etc.
2. Filled Registration form with photograph (Given in Last Page of Brochure)
3. Registration fee will be Rs 1000 / - paid through on line
4. After payment send all documents with payment receipt at : allelelifesciences@gmail.com or Whatsapp - 9891179928
5. We will send confirmation within specified time through e.mail or remind us if not received at our email.

ON LINE PAYMENT METHOD :

Payment By Internet Banking	Scan PAY TM 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 Address - allelelifesciences@upi</p>	 <p>allelelifesciences@upi</p>



Photo

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

LAB FACILITY :

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 (Thermo)	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 FACILITY :

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



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